

OnApp Cloud 5.7 Upgrade Guide

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- OnApp version 5.7 is an Edge release which is not designed to be installed in production environments.
- You can update to OnApp 5.7 from versions 5.5 and 5.6.
- If you are running OnApp 5.5, you should upgrade directly to 5.7, skipping 5.6, to avoid possible complications.

The guides in this section apply to upgrading to the OnApp Cloud 5.7 version. For the release notes list, please refer to the [Release Notes](#) space. For information on how to install OnApp 5.7 version refer to the [Installation](#) guide.

1 Upgrade

- [Upgrade Guide for Control Panel Server](#)
- [Upgrade Guide for Cloud with CloudBooted Servers](#)
- [Upgrade Guide for Cloud with Static Servers](#)
- [Upgrade Guide for Cloud with Mixed CloudBooted and Static Servers](#)
- [Upgrade to Custom Control Panel Version](#)
- [OS Components Upgrade](#)
- [OnApp IS Upgrade Paths](#)

2 Upgrade Guide for Control Panel Server

- OnApp version 5.7 is an Edge release which is not designed to be installed in production environments.
- You can update to OnApp 5.7 from versions 5.5 and 5.6.
- If you are running OnApp 5.5, you should upgrade directly to 5.7, skipping 5.6, to avoid possible complications.

This guide presents the complete walk-through how to upgrade you Control Panel server from OnApp Cloud v5.5 and 5.6 to v5.7. Please follow the complete procedure of the upgrade process. All packages must belong to the same major version to ensure the best performance of your cloud.

2.1 Important Notes

1. You must be running the latest patch of OnApp 5.5 or 5.6 version to upgrade to 5.7 version. If you are using an earlier version, please upgrade to [5.5](#) or [5.6](#) first.
2. Check the Activity Log in your OnApp CP dashboard if there are no transactions running in your cloud. If so, wait until all transactions are complete.
3. Make sure no Control Panel files are open for editing under the root user account.
4. If you plan to deploy [Accelerator](#), refer to the [RabbitMQ Configuration for Accelerator](#) document for more details.
5. Be aware that from now on, OnApp Licensing has a standalone client. Use only 443 port to connect from Control Panel to licensing server.
6. If you use an isolated license, you need to manually sync with the dashboard by downloading a validation request and then uploading a validation response after the Control Panel upgrade. For more information on how to do this, refer to the [License](#) guide.
7. We strongly recommend that you test all your custom scripts before upgrading your production environment.
8. If you use custom languages on your CP, after the update please check the [i18n Customization](#) menu to submit translations for new UI labels, texts, and messages that will be available in the *Missing translations* tab.

If you are using WHMCS modules for OnApp, it is not recommended to update your cloud to the latest release. To ensure that all WHMCS modules are working correctly you need to be running a Stable or LTS OnApp version.

On this page:

[Important Notes](#)
[Billing Changes](#)
[Upgrade Control Panel Server](#)

See also:

[Installation Guide](#)

[Upgrade Guide for Cloud with CloudBooted Servers](#)
[Upgrade Guide for Cloud with Static Servers](#)
[Upgrade Guide for Cloud with Mixed CloudBooted and Static Servers](#)

2.2 Billing Changes

If you are upgrading from OnApp version 5.6, the buckets for *virtual* and *vpc* server type resources will be the same as you have set in OnApp 5.6. *Smart* and *baremetal* server type resources will be migrated into 5.7.

In OnApp 5.7 billing plans have been substituted by buckets. OnApp 5.7 widens the buckets functionality to include Smart and Baremetal server type resources. Buckets enable you to set up resources allocation and pricing separately; the master bucket and master template have been removed. Buckets are subdivided into two tabs:

- *Access Control* - in this section you configure the resources allocation for the users under this bucket. If you assign a bucket to a user, that user will have access only to those resources which you have added to the bucket. If no resources are added to a section of the Access Control, e.g. compute zones, the user under the bucket will not have access to any of the compute zones in the cloud.
- *Rate Card* - in this section you set up prices for the resources and the amount of resources users can request for free. Users under the bucket will be billed according to the prices you configure in the Rate Card.

These tabs are further subdivided into sections that depend on the server types of resources you have in the cloud:

- *Virtual* - the server type under which Xen, KVM, or CloudBoot compute, data store, network and backup server zones of the virtual server type can be created
- *Smart* - the server type under which KVM compute, data store, network and backup server zones of the smart type can be added
- *Baremetal* - the server type under which XEN compute and network zones of the baremetal type can be added
- *VPC* - the server type that *includes* vCloud Director compute, data store and network zones
- *Other* - the resources that relate to the system and do not have a server type. This section includes template stores, edge groups, recipes and service add-on groups

For detailed information, refer to [Buckets](#).

Your billing plans from OnApp 5.5 have been merged into buckets following the logic described in the table below:

Server type	Case	Migration behavior
Virtual	Empty billing plan	Access Control: <ul style="list-style-type: none"> • all resources in the <i>Miscellaneous</i> section (these were previously the <i>User VS Limits</i>) will be added and their limits will be set to <i>unlimited</i>

Server type	Case	Migration behavior
		<ul style="list-style-type: none"> • all template stores, recipe groups and service add-on groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control • none of the edge groups in the system will be added to the Access Control • all data store zones which have SolidFire will be added to the <i>Guaranteed minIOPS</i> section with all limits set to <i>unlimited</i> • all resources of the <i>virtual</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These resources include XEN/KVM/vCenter compute zones, data store, network, and backup server zones of the <i>virtual</i> type <p>Rate Card:</p> <ul style="list-style-type: none"> • the prices for individual templates will be set according to the prices you have previously configured for these templates in the template store • the prices for individual service add-ons will be set according to the prices you have previously configured for these service add-ons in the service add-on groups • for all other resources (IPs, CPU, RAM, etc.) prices and free limits will be set to '0', meaning that the resource usage is free
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> • Only the resources you have previously added will be added to the Access Control. The same limits that were configured prior to the upgrade to 5.7 will be set in the bucket. <p>Rate Card:</p> <ul style="list-style-type: none"> • Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket.
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> • all compute zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> • the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket • the compute zones which had custom limits and pricing

Server type	Case	Migration behavior
		<p>will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7</p> <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master template	<p>If there was only the master template and no other data store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> all data store/network zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
Smart	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> all resources in the <i>Miscellaneous</i> section (smart servers, templates, ISO's & backups storage and backups) will be added and their limits will be set to <i>unlimited</i> all template stores, recipe groups and service add-on groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control none of the edge groups in the system will be added to the Access Control all resources of the <i>smart</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These resources include KVM compute zones, data store, network, and backup server zones of the <i>smart</i> type <p>Rate Card:</p> <ul style="list-style-type: none"> the prices for individual templates will be set according to the prices you have previously configured for these

Server type	Case	Migration behavior
		<p>templates in the template store</p> <ul style="list-style-type: none"> the prices for individual service add-ons will be set according to the prices you have previously configured for these service add-ons in the service add-on groups for all other resources (IPs, CPU, RAM, etc.) prices and free limits will be set to '0', meaning that the resource usage is free
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> Only the resources you have previously added will be added to the Access Control. All resources in the <i>Miscellaneous</i> section (smart servers, templates, ISO's & backups storage and backups) will be set to <i>unlimited</i>. All the other resources of the <i>smart</i> type that were configured prior to the upgrade to 5.7 will be set in the bucket as they were set in the billing plan. <p>Rate Card:</p> <ul style="list-style-type: none"> Only the resources for which the prices were previously configured will be added to the Rate Card. All resources in the <i>Miscellaneous</i> section (templates, ISO's & backups storage and backups) will be migrated without prices. Prices for other resources of the <i>smart</i> type that were configured prior to the upgrade to 5.7 will be set in the bucket as they were set in the billing plan. <p>After the upgrade, you can configure limits and prices for resources in the <i>Miscellaneous</i> section of the bucket by following instructions from the Configure Resource Allocation And Prices section of the Administration Guide.</p>
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> all compute zones of the <i>smart</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits

Server type	Case	Migration behavior
	Master template	<p>and prices as those that were set prior to the upgrade to 5.7</p> <p>If there was only the master template and no other data store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> all data store/network zones of the <i>smart</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
Baremetal	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> all resources in the <i>Miscellaneous</i> section (baremetal servers) will be added and their limits will be set to <i>unlimited</i> all template stores, recipe groups and service add-on groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control none of the edge groups in the system will be added to the Access Control all resources of the <i>baremetal</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These resources include XEN compute and network zones of the <i>baremetal</i> type. <p>Rate Card:</p> <ul style="list-style-type: none"> the prices for individual templates will be set according to the prices you have previously configured for these templates in the template store the prices for individual service add-ons will be set according to the prices you have previously configured for these service add-ons in the service add-on groups for all other resources (IPs) prices and free limits will be

Server type	Case	Migration behavior
		set to '0', meaning that the resource usage is free
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> Only the resources you have previously added will be added to the Access Control. The same limits that were configured prior to the upgrade to 5.7 will be set in the bucket. <p>Rate Card:</p> <ul style="list-style-type: none"> Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices per IP for powered-on baremetal servers and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket. Prices per IP for powered-off baremetal servers are not migrated and not configured in the bucket. <p>After the upgrade, you can configure limits in the <i>Miscellaneous</i> section of the bucket by following instructions from the Configure Resource Allocation And Prices section of the Administration Guide.</p>
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> all compute zones of the <i>baremetal</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master template	<p>If there was only the master template and no other network zones added to the billing plan:</p> <ul style="list-style-type: none"> all network zones of the <i>baremetal</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network zones that used the master template and other which had custom limits and prices:</p>

Server type	Case	Migration behavior
		<p>billing plan will be added to the Access Control and the <i>VS Disk Size</i> parameter in these zones will be set to the value configured prior to the upgrade to 5.7.</p> <ul style="list-style-type: none"> All the network zones that were previously in the user billing plan will be added to the Access Control and the <i>VS IP Addresses</i> in these zones will be set to the value configured prior to the upgrade to 5.7. <p>Rate Card:</p> <ul style="list-style-type: none"> Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket.
	Master bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> all compute zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master Template	<p>If there was only the master template and no other data store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> all data store/network zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the

Server type	Case		Migration behavior
			<p>upgrade to 5.7</p> <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Company Billing Plan	Empty billing plan	If no resources were added to the company billing plan, no resource will be added to the bucket's Access Control and Rate Card. This means that a user under this bucket will have no access to any of the resources in the cloud.
		Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> the <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited the <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited only the compute zones which were previously added will be present in the Access Control with the limits that were set in the billing plan only the network zones which were previously added will be present in the Access Control with their previously set limits only the network zones which were previously added will be present in the Access Control with their previously set limits <p>Rate Card:</p> <ul style="list-style-type: none"> the prices and free limits will be set according to the prices and free limits configured prior to the upgrade to OnApp 5.7

2.3 Upgrade Control Panel Server

- Installer output is redirected to `./onapp-cp-install.log`
- All installer critical errors are in `/var/log/messages`

To upgrade your Control Panel server:

1. Download and install the latest OnApp YUM repository file:

```
# rpm -Uvh http://rpm.repo.onapp.com/repo/onapp-repo-5.7.noarch.rpm
```

2. Upgrade OnApp Control Panel installer package:

```
# yum update onapp-cp-install
```

3. Update your server OS components (if required):

```
# /onapp/onapp-cp-install/onapp-cp-install.sh -y
```

4. *(Optional)* If you need some custom Control Panel configuration, set the values before the installer script runs.

Edit the `/onapp/onapp-cp.conf` file to set Control Panel custom values

Template server URL

```
TEMPLATE_SERVER_URL='http://templates-manager.onapp.com';
```

IPs (separated with coma) list for the SNMP to trap. This is the list of Control Panel IP addresses on which the traps sent from the compute resources are processed.

```
SNMP_TRAP_IPS=""
```

OnApp Control Panel custom version

```
ONAPP_VERSION=""
```

OnApp MySQL/MariaDB connection data (database.yml)

```
ONAPP_CONN_WAIT_TIMEOUT=15
ONAPP_CONN_POOL=30
ONAPP_CONN_RECONNECT='true'
ONAPP_CONN_ENCODING='utf8'
```

MySQL/MariaDB server configuration data (in case of local server)

```
MYSQL_WAIT_TIMEOUT=604800
MYSQL_MAX_CONNECTIONS=500
MYSQL_LIMITNOFILE=8192
```

[Use MariaDB instead of MySQL as OnApp database server](#) (Deprecated parameter. If you set any values for this parameter, they will not take effect)

```
WITH_MARIADB=0
```

Configure the database server relative amount of available RAM

```
TUNE_DB_SERVER=1
```

The number of C data structures that can be allocated before triggering the garbage collector. It defaults to 8 million. Only change this value if you understand what it does.

```
RUBY_GC_MALLOC_LIMIT=16000000
```

sysctl.conf net.core.somaxconn value

```
NET_CORE_SOMAXCONN=2048
```

The root of OnApp database dump directory (on the Control Panel box)

```
ONAPP_DB_DUMP_ROOT=""
```

Remote server's (to store database dumps) IP, user, path, openssh connection options and number of dumps to keep

```
DB_DUMP_SERVER=""
DB_DUMP_USER="root"
DB_DUMP_SERVER_ROOT="/onapp/backups"
DB_DUMP_SERVER_SSH_OPT="-o StrictHostKeyChecking=no -o
UserKnownHostsFile=/dev/null -o PasswordAuthentication=no"
KEEP_DUMPS=168
DB_DUMP_CRON='40 * * * *'
```

[Enable monit - tool for managing and monitoring Unix systems](#)

```
ENABLE_MONIT=1
```

If enabled (the 1 value is set) - install (if local box) and configures RabbitMQ Server (messaging system) for the vCloud support. (Deprecated parameter. If you set any values for this parameter, they will not take effect)

```
ENABLE_RABBITMQ=1
```

Rotate transactions' log files created more than TRANS_LOGS_ROTATE_TIME day(s) ago

```
TRANS_LOGS_ROTATE_TIME=30
```

Maximum allowed for uploading file size in bytes, from 0 (meaning unlimited) to 2147483647 (2GB). Default is 0.

```
MAX_UPLOAD_SIZE=0
```

Timeout before ping Redis Server to check if it is started. Default is 10 sec.

```
REDIS_PING_TIMEOUT=10
```

OnApp Control Panel SSL certificates (please do not change if you aren't familiar with SSL certificates)

* The data below to generate self-signed PEM-encoded X.509 certificate

```
SSL_CERT_COUNTRY_NAME=UK
SSL_CERT_ORGANIZATION_NAME='OnApp Limited'
SSL_CERT_ORGANIZATION_ALUNITNAME='OnApp Cloud'
SSL_CERT_COMMON_NAME=`hostname --fqdn 2>/dev/null`
```

SSLCertificateFile, SSLCertificateKeyFile Apache directives' values

ssl_certificate, ssl_certificate_key Nginx directives' values

```
SSLCERTIFICATEFILE=/etc/pki/tls/certs/ca.crt
SSLCERTIFICATECSRFILE=/etc/pki/tls/private/ca.csr
SSLCERTIFICATEKEYFILE=/etc/pki/tls/private/ca.key
```

* PEM-encoded CA Certificate (if custom one exists)

SSLCACertificateFile, SSLCertificateChainFile Apache directives' values

ssl_client_certificate Nginx directives' values

```
SSLCACERTIFICATEFILE=""
SSLCERTIFICATECHAINFILE=""
```

```
# SSLCipherSuite, SSLProtocol Apache directives' values
# ssl_ciphers, ssl_protocols Nginx directives' values
```

```
SSLCIPHERSUITE=""
SSLPROTOCOL=""
```

```
# vi /onapp/onapp-cp.conf
```

5. Run Control Panel installer:

```
# /onapp/onapp-cp-install/onapp-cp-install.sh
```

For correct display of events you need to update Control Panel with the with the option

`--rake=messaging:fix_events_data`. To do this, run the following command:

```
/onapp/onapp-cp-install/onapp-cp-install.sh --
rake=messaging:fix_events_data
```

If you did not run the rake task during the Control Panel update, you can do it manually after the Control Panel update is done. To do this, run the following command:

```
# cd /onapp/interface/
# su onapp
# rake messaging:fix_events_data
```

The full list of Control Panel installer options:

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

Where:

Database server options: **Default database SQL server is MySQL Server. Please use one of the following option to install LOCALLY.**

--mariadb **MariaDB Server**

--community MySQL Community Server

--percona **Percona Server**

--percona-cluster **Percona Cluster**

MYSQL_* Options are useful if MySQL is already installed and configured.

-m MYSQL_HOST MySQL host. Default is 'localhost'

--mysql-port=MYSQL_PORT TCP port where MySQL Server serves connections. Default values is 3306 for the local installation

--mysql-sock[=MYSQL_SOCKET] Unix socket on which MySQL Server serves connections. Default values is

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

	/var/lib/mysql/mysql.sock. Used if local server only. The socket is unset if the option's argument isn't specified.
-p MYSQL_PASSWD	MySQL password. Random is generated if is not set or specified.
-d MYSQL_DB	OnApp MySQL database name. Default is 'onapp'
-u MYSQL_USER	MySQL user. Default is 'root'
REDIS_*	Options are useful if Redis Server is already installed and configured.
--redis-host=REDIS_HOST	IP address/FQDN where Redis Server runs. It is used by Control Panel to connect to Redis Server. The Redis Server will be installed and configured on the current box if localhost/127.0.0.1 or box's public IP address (listed in SNMP_TRAP_IPS) is specified. Default value is 127.0.0.1. If local Redis, it will serve as well on the unix socket 'PORT' (if --redis-sock without argument isn't

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL SOCK] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS SOCK] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

	specified).
--redis-bind[=REDIS_BIND]	The IP address for Redis Server to serve connections (to listen). The option isn't mandatory.
--redis-port=REDIS_PORT	Redis Server listen port. Defaults are: 0 - if local server 6379 - if remote server
--redis-passwd[=REDIS_PASSWD]	Redis Server password to authenticate. Random password is generated if the option's argument isn't specified. By default no password is used for local Redis.
--redis-sock[=REDIS SOCK]:	Path to the Redis Server's socket. Used if local server only. Default is /var/run/redis/redis.sock. The socket is unset if the option's argument isn't specified.
ADMIN_*	Options are used to configure OnApp Control Panel administrator data.

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

	Please note, that these options are for NEW INSTALL only and not for upgrade
-P ADMIN_PASSWD	CP administrator password
-F ADMIN_FIRSTNAME	CP administrator first name
-L ADMIN_LASTNAME	CP administrator last name
-E ADMIN_EMAIL	CP administrator e-mail
--rbthost RBT_HOST	IP address/FQDN where RabbitMQ Server runs. The RabbitMQ will be installed and configured on the current box if localhost/127.0.0.1 or box's public IP address (enlisted in SNMP_TRAP_IPS) Default value is 127.0.0.1.
VCD_*	Options are usefull if vCloud/RabbitMQ are already installed and configured.
--vcdlogin VCD_LOGIN	RabbitMQ/vCloud user. Default value is 'rbtvcd'.

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

--vcdpasswd VCD_PASSWD	RabbitMQ/vCloud user password. The random password is generated if isn't specified.
--vcdvhost VCD_VHOST	RabbitMQ/vCloud vhost. Default value is '/'
RBT_*	Options are used to configure RabbitMQ manager account. If local RabbitMQ server.
--rbtlogin RBT_LOGIN	RabbitMQ manager login. The default value is 'rbtmgr'.
--rbtpasswd RBT_PASSWD	RabbitMQ manager password. The random password is generated if isn't specified.
--ha-install	Proceed with Control Panel and High Availability components installation.
--rake RAKE_TASKS	List of OnApp Control Panel rake tasks (separated with space) to run at the very end of install or upgrade.
-v ONAPP_VERSION	Install custom OnApp CP version

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

-i SNMP_TRAP_IPS	IP addresses separated with coma for snmp to trap
-y	Update OS packages (except of OnApp provided) on the box with 'yum update'.
-a	Is not interactive. Process with automatic installation. Please note, this will continue OnApp Control Panel install/upgrade even if there is transaction currently running.
-t	Add to the database and download Base Templates. For new installs only. If this option is not used, then only the following mandatory System Templates will be added by default during fresh install: OnApp CDN Appliance; Load Balancer Virtual Appliance; Application Server Appliance.
--noservices	Do not start OnApp services: monit, onapp and httpd Please note, crond and all OnApp's cron tasks remain running. They could be disabled by stopping crond service

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

	manually for your own risk.
-D	Do not make database dump, and make sure it is disabled in the cron and not running at the moment.
--quick --quick-update[=SERVICE]	Proceed with quick update procedure. This will skip update and configuration for services, such as system packages, MySQL database, Redis Server, RabbitMQ Server, and Monit service. Set the SERVICE parameter (space separated list of statements) to define services, which need to be updated. Possible reserved statements are: <i>rpms</i> - for 'system packages' upgrade; <i>mysql</i> - for MySQL database upgrade and configuring; <i>redis</i> - for Redis Server upgrade and configuring; <i>rabbitmq</i> - for RabbitMQ Server upgrade and configuring; <i>monit</i> - for Monit upgrade and configuring.
--accept-eula	Automatically accept OnApp's End User

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

	License Agreement.
-c CONFIG_FILE	Custom installer configuration file. Otherwise, preinstalled one is used.
-h	Print this info

You may wish to reboot your Control Panel server to take advantage of a new kernel if it is installed. It is not required immediately as a part of the upgrade process though.

3 Upgrade Guide for Cloud with CloudBooted Servers

- OnApp version 5.7 is an Edge release which is not designed to be installed in production environments.
- You can update to OnApp 5.7 from versions 5.5 and 5.6.
- If you are running OnApp 5.5, you should upgrade directly to 5.7, skipping 5.6, to avoid possible complications.

This guide presents the complete walk-through how to upgrade OnApp Cloud v5.5 and 5.6 to the v5.7 for the cloud configuration where all servers are CloudBooted except Control Panel server. Please follow the complete procedure of the upgrade process. All packages (Control Panel, CloudBoot, Compute resources) must belong to the same major version to ensure the best performance of your cloud.

3.1 Important Notes

1. You must be running the latest patch of OnApp 5.5 or 5.6 version to upgrade to 5.7 version. If you are using an earlier version, please upgrade to [5.5](#) or [5.6](#) first.
2. Check the Activity Log in your OnApp CP dashboard if there are no transactions running in your cloud. If so, wait until all transactions are complete.
3. Make sure no Control Panel files are open for editing under the root user account.
4. If you plan to deploy [Accelerator](#), refer to the [RabbitMQ Configuration for Accelerator](#) document for more details.
5. Be aware that from now on, OnApp Licensing has a standalone client. Use only 443 port to connect from Control Panel to licensing server.
6. We strongly recommend that you test all your custom scripts before upgrading your production environment.
7. Be aware that OnApp does not support UEFI on static compute resources. You should disable UEFI on your compute resources before installing OnApp.
8. If you are using the [auto-healing](#) functionality for Integrated Storage, make sure to disable it before an upgrade.
9. If you are using Integrated Storage, refer to the [OnApp IS Upgrade Paths](#) for more information about the upgrade details.
10. If you use custom languages on your CP, after the update please check the [i18n Customization](#) menu to submit translations for new UI labels, texts, and messages that will be available in the *Missing translations* tab.

- Drives assigned for use by Integrated Storage are identified using a disk signature that is generated using SCSI page query mechanism to the device. Please note that disk signatures may change across different kernel versions following an upgrade and reboot. If this occurs, go to the compute resource edit page to re-identify and select the correct drives. Please contact support if you have any concerns regarding this operation.

- If you are using WHMCS modules for OnApp, it is not recommended to update your cloud to the latest release. To ensure that all WHMCS modules are working correctly you need to be running a Stable or LTS OnApp version.

On this page:

[Important Notes](#)

[Billing Changes](#)

[Upgrade Control Panel Server](#)

[Upgrade CloudBoot Packages](#)

[Local Read Policy](#)

See also:

[Installation Guide](#)

[Upgrade Guide for Control Panel Server](#)

[Upgrade Guide for Cloud with Static Servers](#)

[Upgrade Guide for Cloud with Mixed CloudBooted and Static Servers](#)

3.2 Billing Changes

If you are upgrading from OnApp version 5.6, the buckets for *virtual* and *vpc* server type resources will be the same as you have set in OnApp 5.6. *Smart* and *baremetal* server type resources will be migrated into 5.7.

In OnApp 5.7 billing plans have been substituted by buckets. OnApp 5.7 widens the buckets functionality to include Smart and Baremetal server type resources. Buckets enable you to set up resources allocation and pricing separately; the master bucket and master template have been removed. Buckets are subdivided into two tabs:

- *Access Control* - in this section you configure the resources allocation for the users under this bucket. If you assign a bucket to a user, that user will have access only to those resources which you have added to the bucket. If no resources are added to a section of the Access Control, e.g. compute zones, the user under the bucket will not have access to any of the compute zones in the cloud.
- *Rate Card* - in this section you set up prices for the resources and the amount of resources users can request for free. Users under the bucket will be billed according to the prices you configure in the Rate Card.

These tabs are further subdivided into sections that depend on the server types of resources you have in the cloud:

- *Virtual* - the server type under which Xen, KVM, or CloudBoot compute, data store, network and backup server zones of the virtual server type can be created
- *Smart* - the server type under which KVM compute, data store, network and backup server zones of the smart type can be added

- *Baremetal* - the server type under which XEN compute and network zones of the baremetal type can be added
- *VPC* - the server type that *includes* vCloud Director compute, data store and network zones
- *Other* - the resources that relate to the system and do not have a server type. This section includes template stores, edge groups, recipes and service add-on groups

For detailed information, refer to [Buckets](#).

Your billing plans from OnApp 5.5 have been merged into buckets following the logic described in the table below:

Server type	Case	Migration behavior
Virtual	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> • all resources in the <i>Miscellaneous</i> section (these were previously the <i>User VS Limits</i>) will be added and their limits will be set to <i>unlimited</i> • all template stores, recipe groups and service add-on groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control • none of the edge groups in the system will be added to the Access Control • all data store zones which have SolidFire will be added to the <i>Guaranteed minIOPS</i> section with all limits set to <i>unlimited</i> • all resources of the <i>virtual</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These resources include XEN/KVM/vCenter compute zones, data store, network, and backup server zones of the <i>virtual</i> type <p>Rate Card:</p> <ul style="list-style-type: none"> • the prices for individual templates will be set according to the prices you have previously configured for these templates in the template store • the prices for individual service add-ons will be set according to the prices you have previously configured for these service add-ons in the service add-on groups • for all other resources (IPs, CPU, RAM, etc.) prices and free limits will be set to '0', meaning that the resource usage is free
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> • Only the resources you have previously added will be added to the Access Control. The same limits that were configured prior to the upgrade to 5.7 will be set in the bucket. <p>Rate Card:</p> <ul style="list-style-type: none"> • Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket.

Server type	Case	Migration behavior
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> all compute zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master template	<p>If there was only the master template and no other data store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> all data store/network zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
Smart	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> all resources in the <i>Miscellaneous</i> section (smart servers, templates, ISO's & backups storage and backups) will be

Server type	Case	Migration behavior
		<p>added and their limits will be set to <i>unlimited</i></p> <ul style="list-style-type: none"> all template stores, recipe groups and service add-on groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control none of the edge groups in the system will be added to the Access Control all resources of the <i>smart</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These resources include KVM compute zones, data store, network, and backup server zones of the <i>smart</i> type <p>Rate Card:</p> <ul style="list-style-type: none"> the prices for individual templates will be set according to the prices you have previously configured for these templates in the template store the prices for individual service add-ons will be set according to the prices you have previously configured for these service add-ons in the service add-on groups for all other resources (IPs, CPU, RAM, etc.) prices and free limits will be set to '0', meaning that the resource usage is free
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> Only the resources you have previously added will be added to the Access Control. All resources in the <i>Miscellaneous</i> section (smart servers, templates, ISO's & backups storage and backups) will be set to <i>unlimited</i>. All the other resources of the <i>smart</i> type that were configured prior to the upgrade to 5.7 will be set in the bucket as they were set in the billing plan. <p>Rate Card:</p> <ul style="list-style-type: none"> Only the resources for which the prices were previously configured will be added to the Rate Card. All resources in the <i>Miscellaneous</i> section (templates, ISO's & backups storage and backups) will be migrated without prices. Prices for other resources of the <i>smart</i> type that were configured prior to the upgrade to 5.7 will be set in the bucket as they were set in the billing plan. <p>After the upgrade, you can configure limits and prices for resources in the <i>Miscellaneous</i> section of the bucket by following instructions from the Configure Resource Allocation And Prices section of the Administration Guide.</p>
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> all compute zones of the <i>smart</i> type will be added to the bucket with the same prices and limits as those that were

Server type	Case	Migration behavior
		<p>set in the master bucket</p> <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master template	<p>If there was only the master template and no other data store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> all data store/network zones of the <i>smart</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
Baremetal	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> all resources in the <i>Miscellaneous</i> section (baremetal servers) will be added and their limits will be set to <i>unlimited</i> all template stores, recipe groups and service add-on groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control none of the edge groups in the system will be added to

Server type	Case	Migration behavior
		<p>the Access Control</p> <ul style="list-style-type: none"> all resources of the <i>baremetal</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These resources include XEN compute and network zones of the <i>baremetal</i> type. <p>Rate Card:</p> <ul style="list-style-type: none"> the prices for individual templates will be set according to the prices you have previously configured for these templates in the template store the prices for individual service add-ons will be set according to the prices you have previously configured for these service add-ons in the service add-on groups for all other resources (IPs) prices and free limits will be set to '0', meaning that the resource usage is free
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> Only the resources you have previously added will be added to the Access Control. The same limits that were configured prior to the upgrade to 5.7 will be set in the bucket. <p>Rate Card:</p> <ul style="list-style-type: none"> Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices per IP for powered-on baremetal servers and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket. Prices per IP for powered-off baremetal servers are not migrated and not configured in the bucket. <p>After the upgrade, you can configure limits in the <i>Miscellaneous</i> section of the bucket by following instructions from the Configure Resource Allocation And Prices section of the Administration Guide.</p>
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> all compute zones of the <i>baremetal</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p>

Server type	Case	Migration behavior				
		<ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 				
	Master template	<p>If there was only the master template and no other network zones added to the billing plan:</p> <ul style="list-style-type: none"> all network zones of the <i>baremetal</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 				
VPC	User billing plan	<table border="1"> <tr> <td data-bbox="496 1196 632 1937">Empty billing plan</td> <td data-bbox="632 1196 1370 1937"> <p>Access Control:</p> <ul style="list-style-type: none"> the <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited the <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited all the compute zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS CPU Cores</i> and <i>VS RAM</i> parameters in these zones will be set to unlimited all the data store zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS Disk Size</i> parameter in these zones will be set to unlimited all the network zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS IP Addresses</i> parameter in these zones will be set to unlimited <p>Rate Card:</p> <ul style="list-style-type: none"> no prices and free limits will be set for vCloud Director resources in the Rate Card meaning that resource usage is free </td> </tr> <tr> <td data-bbox="496 1937 632 2018">Filled-in billing plan</td> <td data-bbox="632 1937 1370 2018"> <p>Access Control:</p> <ul style="list-style-type: none"> The <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of </td> </tr> </table>	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> the <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited the <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited all the compute zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS CPU Cores</i> and <i>VS RAM</i> parameters in these zones will be set to unlimited all the data store zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS Disk Size</i> parameter in these zones will be set to unlimited all the network zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS IP Addresses</i> parameter in these zones will be set to unlimited <p>Rate Card:</p> <ul style="list-style-type: none"> no prices and free limits will be set for vCloud Director resources in the Rate Card meaning that resource usage is free 	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> The <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of
Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> the <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited the <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited all the compute zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS CPU Cores</i> and <i>VS RAM</i> parameters in these zones will be set to unlimited all the data store zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS Disk Size</i> parameter in these zones will be set to unlimited all the network zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS IP Addresses</i> parameter in these zones will be set to unlimited <p>Rate Card:</p> <ul style="list-style-type: none"> no prices and free limits will be set for vCloud Director resources in the Rate Card meaning that resource usage is free 					
Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> The <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of 					

Server type	Case	Migration behavior
		<p>the Access Control will be set to the value configured prior to the upgrade to 5.7. If this value was not configured previously, it will be set to <i>unlimited</i>.</p> <ul style="list-style-type: none"> • The <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to the value configured prior to the upgrade to 5.7. If this value was not configured previously, it will be set to <i>unlimited</i>. • The compute zones that were previously in the user billing plan will be added to the Access Control and the <i>VS CPU Cores</i> and <i>VS RAM</i> parameters in these zones will be set to the value configured prior to the upgrade to 5.7. • All the data store zones that were previously in the user billing plan will be added to the Access Control and the <i>VS Disk Size</i> parameter in these zones will be set to the value configured prior to the upgrade to 5.7. • All the network zones that were previously in the user billing plan will be added to the Access Control and the <i>VS IP Addresses</i> in these zones will be set to the value configured prior to the upgrade to 5.7. <p>Rate Card:</p> <ul style="list-style-type: none"> • Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket.
	Master bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> • all compute zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> • the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket • the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> • all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master	If there was only the master template and no other data

Server type	Case	Migration behavior
	Template	<p>store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> all data store/network zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Company Billing Plan	<p>Empty billing plan</p> <p>If no resources were added to the company billing plan, no resource will be added to the bucket's Access Control and Rate Card. This means that a user under this bucket will have no access to any of the resources in the cloud.</p> <hr/> <p>Filled-in billing plan</p> <p>Access Control:</p> <ul style="list-style-type: none"> the <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited the <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited only the compute zones which were previously added will be present in the Access Control with the limits that were set in the billing plan only the network zones which were previously added will be present in the Access Control with their previously set limits only the network zones which were previously added will be present in the Access Control with their previously set limits <p>Rate Card:</p> <ul style="list-style-type: none"> the prices and free limits will be set according to the prices and free limits configured prior to the upgrade to OnApp 5.7

3.3 Upgrade Control Panel Server

- Installer output is redirected to `./onapp-cp-install.log`
- All installer critical errors are in `/var/log/messages`

To upgrade your Control Panel server:

1. Download and install the latest OnApp YUM repository file:

```
# rpm -Uvh http://rpm.repo.onapp.com/repo/onapp-repo-5.7.noarch.rpm
```

2. Upgrade OnApp Control Panel installer package:

```
# yum update onapp-cp-install
```

3. Update your server OS components (if required):

```
# /onapp/onapp-cp-install/onapp-cp-install.sh -y
```

4. *(Optional)* If you need some custom Control Panel configuration, set the values before the installer script runs.

Edit the `/onapp/onapp-cp.conf` file to set Control Panel custom values

Template server URL

```
TEMPLATE_SERVER_URL='http://templates-manager.onapp.com';
```

IPs (separated with coma) list for the SNMP to trap. This is the list of Control Panel IP addresses on which the traps sent from the compute resources are processed.

```
SNMP_TRAP_IPS=""
```

OnApp Control Panel custom version

```
ONAPP_VERSION=""
```

OnApp MySQL/MariaDB connection data (database.yml)

```
ONAPP_CONN_WAIT_TIMEOUT=15
ONAPP_CONN_POOL=30
ONAPP_CONN_RECONNECT='true'
ONAPP_CONN_ENCODING='utf8'
```

MySQL/MariaDB server configuration data (in case of local server)

```
MYSQL_WAIT_TIMEOUT=604800
MYSQL_MAX_CONNECTIONS=500
MYSQL_LIMITNOFILE=8192
```

[Use MariaDB instead of MySQL as OnApp database server](#) (Deprecated parameter. If you set any values for this parameter, they will not take effect)

```
WITH_MARIADB=0
```

Configure the database server relative amount of available RAM

```
TUNE_DB_SERVER=1
```

The number of C data structures that can be allocated before triggering the garbage collector. It defaults to 8 million. Only change this value if you understand what it does.

```
RUBY_GC_MALLOC_LIMIT=16000000
```

sysctl.conf net.core.somaxconn value

```
NET_CORE_SOMAXCONN=2048
```

The root of OnApp database dump directory (on the Control Panel box)

```
ONAPP_DB_DUMP_ROOT=""
```

Remote server's (to store database dumps) IP, user, path, openssh connection options and number of dumps to keep

```
DB_DUMP_SERVER=""
DB_DUMP_USER="root"
DB_DUMP_SERVER_ROOT="/onapp/backups"
DB_DUMP_SERVER_SSH_OPT="-o StrictHostKeyChecking=no -o
UserKnownHostsFile=/dev/null -o PasswordAuthentication=no"
KEEP_DUMPS=168
```

```
DB_DUMP_CRON='40 * * * *'
```

[Enable monit - tool for managing and monitoring Unix systems](#)

```
ENABLE_MONIT=1
```

If enabled (the 1 value is set) - install (if local box) and configures RabbitMQ Server (messaging system) for the vCloud support. (Deprecated parameter. If you set any values for this parameter, they will not take effect)

```
ENABLE_RABBITMQ=1
```

Rotate transactions' log files created more than TRANS_LOGS_ROTATE_TIME day(s) ago

```
TRANS_LOGS_ROTATE_TIME=30
```

Maximum allowed for uploading file size in bytes, from 0 (meaning unlimited) to 2147483647 (2GB). Default is 0.

```
MAX_UPLOAD_SIZE=0
```

Timeout before ping Redis Server to check if it is started. Default is 10 sec.

```
REDIS_PING_TIMEOUT=10
```

OnApp Control Panel SSL certificates (please do not change if you aren't familiar with SSL certificates)

* The data below to generate self-signed PEM-encoded X.509 certificate

```
SSL_CERT_COUNTRY_NAME=UK
SSL_CERT_ORGANIZATION_NAME='OnApp Limited'
SSL_CERT_ORGANIZATION_ALUNITNAME='OnApp Cloud'
SSL_CERT_COMMON_NAME=`hostname --fqdn 2>/dev/null`
```

```
# SSLCertificateFile, SSLCertificateKeyFile Apache directives' values
# ssl_certificate, ssl_certificate_key Nginx directives' values
```

```
SSLCERTIFICATEFILE=/etc/pki/tls/certs/ca.crt
SSLCERTIFICATECSRFILE=/etc/pki/tls/private/ca.csr
SSLCERTIFICATEKEYFILE=/etc/pki/tls/private/ca.key
```

```
# * PEM-encoded CA Certificate (if custom one exists)
# SSLCACertificateFile, SSLCertificateChainFile Apache directives' values
# ssl_client_certificate Nginx directives' values
```

```
SSLCACERTIFICATEFILE=""
SSLCERTIFICATECHAINFILE=""
```

```
# SSLCipherSuite, SSLProtocol Apache directives' values
# ssl_ciphers, ssl_protocols Nginx directives' values
```

```
SSLCIPHERSUITE=""
SSLPROTOCOL=""
```

```
# vi /onapp/onapp-cp.conf
```

5. Run Control Panel installer:

```
# /onapp/onapp-cp-install/onapp-cp-install.sh
```

For correct display of events you need to update Control Panel with the with the option

`--rake=messaging:fix_events_data`. To do this, run the following command:

```
/onapp/onapp-cp-install/onapp-cp-install.sh --
rake=messaging:fix_events_data
```

If you did not run the rake task during the Control Panel update, you can do it manually after the Control Panel update is done. To do this,

run the following command:

```
# cd /onapp/interface/
# su onapp
# rake messaging:fix_events_data
```

The full list of Control Panel installer options:

Usage:

```
/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]
```

Where:

Database server options:

Default database SQL server is MySQL Server. Please use one of the following option to install LOCALLY.

--mariadb

MariaDB Server

--community

MySQL Community Server

--percona

Percona Server

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

--percona-cluster	Percona Cluster
MYSQL_*	Options are useful if MySQL is already installed and configured.
-m MYSQL_HOST	MySQL host. Default is 'localhost'
--mysql-port=MYSQL_PORT	TCP port where MySQL Server serves connections. Default values is 3306 for the local installation
--mysql-sock[=MYSQL_SOCKET]	Unix socket on which MySQL Server serves connections. Default values is /var/lib/mysql/mysql.sock. Used if local server only. The socket is unset if the option's argument isn't specified.
-p MYSQL_PASSWD	MySQL password. Random is generated if is not set or specified.
-d MYSQL_DB	OnApp MySQL database name. Default is 'onapp'
-u MYSQL_USER	MySQL user. Default is 'root'

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

REDIS_*	Options are useful if Redis Server is already installed and configured.
--redis-host=REDIS_HOST	IP address/FQDN where Redis Server runs. It is used by Control Panel to connect to Redis Server. The Redis Server will be installed and configured on the current box if localhost/127.0.0.1 or box's public IP address (listed in SNMP_TRAP_IPS) is specified. Default value is 127.0.0.1. If local Redis, it will serve as well on the unix socket 'PORT' (if --redis-sock without argument isn't specified).
--redis-bind[=REDIS_BIND]	The IP address for Redis Server to serve connections (to listen). The option isn't mandatory.
--redis-port=REDIS_PORT	Redis Server listen port. Defaults are: 0 - if local server 6379 - if remote server

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL SOCK] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS SOCK] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

--redis-passwd[=REDIS_PASSWD]	Redis Server password to authenticate. Random password is generated if the option's argument isn't specified. By default no password is used for local Redis.
--redis-sock[=REDIS SOCK]:	Path to the Redis Server's socket. Used if local server only. Default is /var/run/redis/redis.sock. The socket is unset if the option's argument isn't specified.
ADMIN_*	Options are used to configure OnApp Control Panel administrator data. Please note, that these options are for NEW INSTALL only and not for upgrade
-P ADMIN_PASSWD	CP administrator password
-F ADMIN_FIRSTNAME	CP administrator first name
-L ADMIN_LASTNAME	CP administrator last name
-E ADMIN_EMAIL	CP administrator e-mail

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

--rbthost RBT_HOST	IP address/FQDN where RabbitMQ Server runs. The RabbitMQ will be installed and configured on the current box if localhost/127.0.0.1 or box's public IP address (enlisted in SNMP_TRAP_IPS) Default value is 127.0.0.1.
VCD_*	Options are usefull if vCloud/RabbitMQ are already installed and configured.
--vcdlogin VCD_LOGIN	RabbitMQ/vCloud user. Default value is 'rvtcd'.
--vcdpasswd VCD_PASSWD	RabbitMQ/vCloud user password. The random password is generated if isn't specified.
--vcdvhost VCD_VHOST	RabbitMQ/vCloud vhost. Default value is '/'
RBT_*	Options are used to configure RabbitMQ manager account. If local RabbitMQ server.
--rbtlogin RBT_LOGIN	RabbitMQ manager login. The default value is 'rbtmgr'.

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

--rbtpasswd RBT_PASSWD	RabbitMQ manager password. The random password is generated if isn't specified.
--ha-install	Proceed with Control Panel and High Availability components installation.
--rake RAKE_TASKS	List of OnApp Control Panel rake tasks (separated with space) to run at the very end of install or upgrade.
-v ONAPP_VERSION	Install custom OnApp CP version
-i SNMP_TRAP_IPS	IP addresses separated with coma for snmp to trap
-y	Update OS packages (except of OnApp provided) on the box with 'yum update'.
-a	Is not interactive. Process with automatic installation. Please note, this will continue OnApp Control Panel install/upgrade even if there is transaction currently running.
-t	Add to the database and download Base

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

Templates. For new installs only. If this option is not used, then only the following mandatory System Templates will be added by default during fresh install: OnApp CDN Appliance; Load Balancer Virtual Appliance; Application Server Appliance.

--noservices

Do not start OnApp services: monit, onapp and httpd
Please note, crond and all OnApp's cron tasks remain running. They could be disabled by stopping crond service manually for your own risk.

-D

Do not make database dump, and make sure it is disabled in the cron and not running at the moment.

--quick|--quick-update[=SERVICE]

Proceed with quick update procedure. This will skip update and configuration for services, such as system packages, MySQL database, Redis Server, RabbitMQ Server, and Monit service. Set the SERVICE parameter (space separated list of

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

statements) to define services, which need to be updated. Possible reserved statements are:

- rpms* - for 'system packages' upgrade;
- mysql* - for MySQL database upgrade and configuring;
- redis* - for Redis Server upgrade and configuring;
- rabbitmq* - for RabbitMQ Server upgrade and configuring;
- monit* - for Monit upgrade and configuring.

--accept-eula	Automatically accept OnApp's End User License Agreement.
-c CONFIG_FILE	Custom installer configuration file. Otherwise, preinstalled one is used.
-h	Print this info

You may wish to reboot your Control Panel server to take advantage of a new kernel if it is installed. It is not required immediately as a part of the upgrade process though.

3.4 Upgrade CloudBoot Packages

Create a backup of the /tftpboot directory in case storage packages rollback will be needed.

To upgrade the OnApp Storage packages:

1. Upgrade the repo:

```
CP_host#> rpm -Uvh http://rpm.repo.onapp.com/repo/onapp-repo-5.7.noarch.rpm
```

2. Upgrade the packages:

Depending on the needed compute resource type, you should install onapp-ramdisk-DISTRO-FLAVOR package(s), where:

DISTRO - CentOS6 or CentOS7

FLAVOR - XEN, KVM

Also, it is required to install *yum install onapp-ramdisk-centos7-default* together with onappstore packages.

It is recommended to update all packages. Below you can find an example:

```
bash#> # yum install onapp-ramdisk-centos7-default
bash#> # yum update onapp-store-install
bash#> # yum update onapp-ramdisk-tools
bash#> # yum update onapp-ramdisk-centos6-kvm
bash#> # yum update onapp-ramdisk-centos6-xen
bash#> # yum update onapp-ramdisk-centos7-kvm
```

After packages update go to the Control Panel's **Settings** menu > **Configuration** and click the **Save Configuration** button.

3. Run the script:

```
CP_host#> /onapp/onapp-store-install/onapp-store-install.sh
```

Be aware that the disk-less nodes password is the root password for the CloudBoot compute resources. By default it is blank.

When run in the interactive mode, enter the required information.

3.5 Upgrade CloudBoot Backup Servers

Make sure to update CloudBoot packages on your Control Panel server before proceeding to the upgrade of CloudBoot backup servers.

CloudBoot backup servers are CloudBooted KVM compute resources that can be used as backup servers. The CloudBoot backup server upgrade procedure is almost the same as the CloudBoot compute resource upgrade. Follow the instructions provided in this section to upgrade CloudBoot backup servers in your cloud.

Once you have upgraded the CloudBoot dependencies, you have to reboot your CloudBoot compute resource to update the Cloud Boot RPM. You do not need to perform any backup server upgrade operations using console.

To do so:

1. Go to your Control Panel **Settings > Compute Resources** menu.
2. Click the label of the CloudBoot compute resource the backup server is based on.
3. On the compute resource details screen, click the **Actions** button, then click **Reboot Compute resource**.
4. A new screen will open asking for confirmation before reboot:
 - **Are you sure you want to reboot this compute resource?** Confirm that you want the compute resource to reboot.
5. When you're certain you want to proceed with the reboot, click the **Reboot** button.
6. Repeat these steps for all CloudBoot backup servers in your cloud.
7. Once all are rebooted, proceed to CloudBoot compute resources upgrade.

3.6 Upgrade CloudBoot Compute Resources

For the upgrade from 5.5 to 5.7:

- For CloudBoot Xen compute resources, only the 'Simple Reboot' upgrade option is available.
- If you are running VSs on Xen compute resources, these VSs should be shut down prior to the upgrade.

Depending on the infrastructure, scale and needs of your cloud we suggest the following methods of upgrading CloudBoot compute resources:

Simple Reboot	This method is the simplest method technically. It also ensures all tools are updated. However, it will result in some limited downtime (its duration depends on how many virtual servers are running on each compute resource).
Migrate	This method involves migrating all virtual servers off each CloudBoot compute

and reboot	resource in turn. The compute resource can then be safely rebooted, picking up the upgraded Integrated Storage and CloudBoot packages. Virtual servers that do not support hot migrate will have to be stopped.
-----------------------------------	---

In case you have applied any custom configuration to your CloudBoot servers, it is recommended to recheck that this customization does not break new cloud boot image version. For this, reboot a compute resource and run [Storage Health Check](#) and [Network Health Check](#). Make sure that Vdisks hosted on a compute resource are redundant and healthy before rebooting a CloudBoot compute resource.

For more information about upgrade scenarios, refer to the [OnApp IS Upgrade Paths](#).

If you are using the [auto-healing](#) functionality for Integrated Storage, make sure to disable it before an upgrade.

3.6.1 Simple Reboot

Follow the below procedure to upgrade the CloudBoot compute resources with reboot:

1. [Upgrade CloudBoot Packages](#).
2. When the CloudBoot packages upgrade is complete, stop all virtual servers which reside on the CloudBoot compute resources.
3. Reboot all CloudBoot compute resources. Once the compute resources are booted, the upgrade is complete. Before starting all Virtual Servers please ensure that the diagnostics page does not report any issue. In case of any issue, please click repair button to resolve it, then continue with starting Virtual Servers.

Note that virtual servers cannot be stopped simultaneously, but must be stopped in sequence. This can result in considerable downtime if there are a large number of virtual servers.

3.6.2 Migrate and Reboot

Use this procedure if you prefer migrating all virtual servers to another compute resource and conducting overall upgrade of your CloudBoot and Integrated Storage. Virtual servers that do not support hot migrate will have to be stopped.

Once you have [upgraded the CloudBoot packages](#), you have to reboot your CloudBoot compute resources to update them.

To do so:

1. Migrate all the virtual servers from the CloudBoot compute resource to another compute resource. Follow the instructions described in the [Migrate Virtual Server](#) section of the Admin guide to migrate virtual servers.
2. After that, go to your Control Panel **Settings** menu.
3. Click the **Compute Resources** icon.
4. Click the label of the CloudBoot compute resource you have migrated all VSs from.

5. On the compute resource details screen, click the **Actions** button, then click **Reboot Compute resource**.

Rebooting a compute resource assigned to a data store with a single replica (single-replica compute resource) or degraded virtual disks may result in data loss.

6. A new screen will open asking for confirmation (via two checkboxes) before reboot:
 - **Stop all virtual servers that cannot be migrated to another compute resource?** Check this box if you want VSs that cannot be migrated to be powered off. When a compute resource is scheduled for a reboot, OnApp will first attempt to hot migrate all VSs it hosts. If hot migration is not possible for a VS, OnApp will attempt to cold migrate that VS. With this box checked, if cold migration fails, the VS will be stopped so the reboot may proceed. If you don't check this box, OnApp will attempt to hot and then cold migrate all VSs hosted by the compute resource being rebooted – but will stop the migration process if any VS cannot be migrated.
 - **Are you sure you want to reboot this compute resource?** A simple confirmation to confirm that you want the compute resource to reboot.

Before the reboot, please ensure that all disks are fully synced and redundant. If some of them are not fully synced, the virtual server, that is owner of a degraded (or non-redundant) vdisk, can lose access to the vdisk. It can be manifested as IO errors during writes or reads to/from the vdisk inside the virtual server.

7. When you're certain you want to proceed with the reboot, click the **Reboot** button.
8. Repeat these steps for all CloudBoot compute resources in your cloud.

3.7 Local Read Policy

Enabling Local Read on a compute zone ensures that the locally stored copy of the data will always be used for reads. This significantly reduces read latency and improves overall storage performance by reducing load on the SAN network. However, in order to use this policy every compute resource must have sufficient physical drives to be able to store the number of stripes specified in the data store. E.g. in a 2R4S data store there must be at least 4 physical disks on the compute resource to use local read.

Changes to Local Read Policy Enforcement

Originally, when this policy was introduced OnApp did not enforce the requirement for the minimum number of drives. Consequently, some users who set the policy having insufficient drives may see the following error message:

```
Fatal: OnApp::Actions::Fatal Storage API Call failed:  
{ "result"=>"FAILURE", "error"=>"Local reads have been enabled on the zone  
- members required per host: 4, required hosts: 2, available hosts: 0" }
```

The solution is to either add additional drives to that compute resource and then add them to the data store or to disable read local.

Getting support for your upgrade

You can use the information in this document to perform your own upgrade to the 5.7 version of the OnApp Cloud. However, if you have a full OnApp Cloud license, you are entitled to free upgrade support from the OnApp Support team.

If you would prefer to have the Support team perform the upgrade for you, just raise a ticket in the normal way. Please be aware, however, that there may be a queue!

4 Upgrade Guide for Cloud with Mixed CloudBooted and Static Servers

- OnApp version 5.7 is an Edge release which is not designed to be installed in production environments.
- You can update to OnApp 5.7 from versions 5.5 and 5.6.
- If you are running OnApp 5.5, you should upgrade directly to 5.7, skipping 5.6, to avoid possible complications.

This guide explains how to upgrade OnApp Cloud v5.5 and 5.6 to the v5.7 for the cloud with the mixed CloudBooted servers and Static servers configuration. Follow the procedure listed below in the correct order to upgrade your cloud. Please follow the complete procedure of the upgrade process. All packages (Control Panel, CloudBoot, Compute resources) must belong to the same major version to ensure the best performance of your cloud.

4.1 Important Notes

1. You must be running the latest patch of OnApp 5.5 or 5.6 version to upgrade to 5.7 version. If you are using an earlier version, please upgrade to [5.5](#) or [5.6](#) first.
2. Check the Activity Log in your OnApp CP dashboard if there are no transactions running in your cloud. If so, wait until all transactions are complete.
3. Make sure no Control Panel files are open for editing under the root user account.
4. If you plan to deploy [Accelerator](#), refer to the [RabbitMQ Configuration for Accelerator](#) document for more details.
5. Be aware that from now on, OnApp Licensing has a standalone client. Use only 443 port to connect from Control Panel to licensing server.
6. We strongly recommend that you test all your custom scripts before upgrading your production environment.
7. Be aware that OnApp does not support UEFI on static compute resources. You should disable UEFI on your compute resources before installing OnApp.
8. If you are using the [auto-healing](#) functionality for Integrated Storage, make sure to disable it before an upgrade.
9. If you are using Integrated Storage, refer to the [OnApp IS Upgrade Paths](#) for more information about the upgrade details.
10. If you use custom languages on your CP, after the update please check the [i18n Customization](#) menu to submit translations for new UI labels, texts, and messages that will be available in the *Missing translations* tab.

- Drives assigned for use by Integrated Storage are identified using a disk signature that is generated using SCSI page query mechanism to the device. Please note that disk signatures may change across different kernel versions following an upgrade and reboot. If this occurs, go to the compute resource edit page to re-identify and select the correct drives.

Please contact support if you have any concerns regarding this operation.

- If you are using WHMCS modules for OnApp, it is not recommended to update your cloud to the latest release. To ensure that all WHMCS modules are working correctly you need to be running a Stable or LTS OnApp version.

On this page:

[Important Notes](#)

[Billing Changes](#)

[Upgrade Control Panel Server](#)

[Upgrade Static Compute Resources](#)

[Upgrade CloudBoot Compute Resources](#)

[Local Read Policy](#)

See also:

[Installation Guide](#)

[Upgrade Guide for Control Panel Server](#)

[Upgrade Guide for Cloud with CloudBooted Servers](#)

[Upgrade Guide for Cloud with Static Servers](#)

4.2 Billing Changes

If you are upgrading from OnApp version 5.6, the buckets for *virtual* and *vpc* server type resources will be the same as you have set in OnApp 5.6. *Smart* and *baremetal* server type resources will be migrated into 5.7.

In OnApp 5.7 billing plans have been substituted by buckets. OnApp 5.7 widens the buckets functionality to include Smart and Baremetal server type resources. Buckets enable you to set up resources allocation and pricing separately; the master bucket and master template have been removed. Buckets are subdivided into two tabs:

- *Access Control* - in this section you configure the resources allocation for the users under this bucket. If you assign a bucket to a user, that user will have access only to those resources which you have added to the bucket. If no resources are added to a section of the Access Control, e.g. compute zones, the user under the bucket will not have access to any of the compute zones in the cloud.
- *Rate Card* - in this section you set up prices for the resources and the amount of resources users can request for free. Users under the bucket will be billed according to the prices you configure in the Rate Card.

These tabs are further subdivided into sections that depend on the server types of resources you have in the cloud:

- *Virtual* - the server type under which Xen, KVM, or CloudBoot compute, data store, network and backup server zones of the virtual server type can be created
- *Smart* - the server type under which KVM compute, data store, network and backup server zones of the smart type can be added
- *Baremetal* - the server type under which XEN compute and network zones of the baremetal type can be added

- *VPC* - the server type that *includes* vCloud Director compute, data store and network zones
- *Other* - the resources that relate to the system and do not have a server type. This section includes template stores, edge groups, recipes and service add-on groups

For detailed information, refer to [Buckets](#).

Your billing plans from OnApp 5.5 have been merged into buckets following the logic described in the table below:

Server type	Case	Migration behavior
Virtual	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> • all resources in the <i>Miscellaneous</i> section (these were previously the <i>User VS Limits</i>) will be added and their limits will be set to <i>unlimited</i> • all template stores, recipe groups and service add-on groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control • none of the edge groups in the system will be added to the Access Control • all data store zones which have SolidFire will be added to the <i>Guaranteed minIOPS</i> section with all limits set to <i>unlimited</i> • all resources of the <i>virtual</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These resources include XEN/KVM/vCenter compute zones, data store, network, and backup server zones of the <i>virtual</i> type <p>Rate Card:</p> <ul style="list-style-type: none"> • the prices for individual templates will be set according to the prices you have previously configured for these templates in the template store • the prices for individual service add-ons will be set according to the prices you have previously configured for these service add-ons in the service add-on groups • for all other resources (IPs, CPU, RAM, etc.) prices and free limits will be set to '0', meaning that the resource usage is free
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> • Only the resources you have previously added will be added to the Access Control. The same limits that were configured prior to the upgrade to 5.7 will be set in the bucket. <p>Rate Card:</p> <ul style="list-style-type: none"> • Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket.

Server type	Case	Migration behavior
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> all compute zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master template	<p>If there was only the master template and no other data store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> all data store/network zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
Smart	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> all resources in the <i>Miscellaneous</i> section (smart servers, templates, ISO's & backups storage and backups) will be added and their limits will be set to <i>unlimited</i> all template stores, recipe groups and service add-on

Server type	Case	Migration behavior
		<p>groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control</p> <ul style="list-style-type: none"> • none of the edge groups in the system will be added to the Access Control • all resources of the <i>smart</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These resources include KVM compute zones, data store, network, and backup server zones of the <i>smart</i> type <p>Rate Card:</p> <ul style="list-style-type: none"> • the prices for individual templates will be set according to the prices you have previously configured for these templates in the template store • the prices for individual service add-ons will be set according to the prices you have previously configured for these service add-ons in the service add-on groups • for all other resources (IPs, CPU, RAM, etc.) prices and free limits will be set to '0', meaning that the resource usage is free
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> • Only the resources you have previously added will be added to the Access Control. • All resources in the <i>Miscellaneous</i> section (smart servers, templates, ISO's & backups storage and backups) will be set to <i>unlimited</i>. All the other resources of the <i>smart</i> type that were configured prior to the upgrade to 5.7 will be set in the bucket as they were set in the billing plan. <p>Rate Card:</p> <ul style="list-style-type: none"> • Only the resources for which the prices were previously configured will be added to the Rate Card. • All resources in the <i>Miscellaneous</i> section (templates, ISO's & backups storage and backups) will be migrated without prices. Prices for other resources of the <i>smart</i> type that were configured prior to the upgrade to 5.7 will be set in the bucket as they were set in the billing plan. <p>After the upgrade, you can configure limits and prices for resources in the <i>Miscellaneous</i> section of the bucket by following instructions from the Configure Resource Allocation And Prices section of the Administration Guide.</p>
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> • all compute zones of the <i>smart</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master</p>

Server type	Case	Migration behavior
		<p>bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master template	<p>If there was only the master template and no other data store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> all data store/network zones of the <i>smart</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
Baremetal	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> all resources in the <i>Miscellaneous</i> section (baremetal servers) will be added and their limits will be set to <i>unlimited</i> all template stores, recipe groups and service add-on groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control none of the edge groups in the system will be added to the Access Control all resources of the <i>baremetal</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These

Server type	Case	Migration behavior
		<p>resources include XEN compute and network zones of the <i>baremetal</i> type.</p> <p>Rate Card:</p> <ul style="list-style-type: none"> the prices for individual templates will be set according to the prices you have previously configured for these templates in the template store the prices for individual service add-ons will be set according to the prices you have previously configured for these service add-ons in the service add-on groups for all other resources (IPs) prices and free limits will be set to '0', meaning that the resource usage is free
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> Only the resources you have previously added will be added to the Access Control. The same limits that were configured prior to the upgrade to 5.7 will be set in the bucket. <p>Rate Card:</p> <ul style="list-style-type: none"> Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices per IP for powered-on baremetal servers and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket. Prices per IP for powered-off baremetal servers are not migrated and not configured in the bucket. <p>After the upgrade, you can configure limits in the <i>Miscellaneous</i> section of the bucket by following instructions from the Configure Resource Allocation And Prices section of the Administration Guide.</p>
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> all compute zones of the <i>baremetal</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to

Server type	Case	Migration behavior				
	Master template	<p>5.7</p> <p>If there was only the master template and no other network zones added to the billing plan:</p> <ul style="list-style-type: none"> all network zones of the <i>baremetal</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 				
VPC	User billing plan	<table border="1"> <tr> <td data-bbox="496 1099 632 1845">Empty billing plan</td> <td data-bbox="632 1099 1370 1845"> <p>Access Control:</p> <ul style="list-style-type: none"> the <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited the <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited all the compute zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS CPU Cores</i> and <i>VS RAM</i> parameters in these zones will be set to unlimited all the data store zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS Disk Size</i> parameter in these zones will be set to unlimited all the network zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS IP Addresses</i> parameter in these zones will be set to unlimited <p>Rate Card:</p> <ul style="list-style-type: none"> no prices and free limits will be set for vCloud Director resources in the Rate Card meaning that resource usage is free </td> </tr> <tr> <td data-bbox="496 1845 632 2031">Filled-in billing plan</td> <td data-bbox="632 1845 1370 2031"> <p>Access Control:</p> <ul style="list-style-type: none"> The <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to the value configured prior to the upgrade to 5.7. If this value was not configured previously, it will be set to <i>unlimited</i>. </td> </tr> </table>	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> the <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited the <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited all the compute zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS CPU Cores</i> and <i>VS RAM</i> parameters in these zones will be set to unlimited all the data store zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS Disk Size</i> parameter in these zones will be set to unlimited all the network zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS IP Addresses</i> parameter in these zones will be set to unlimited <p>Rate Card:</p> <ul style="list-style-type: none"> no prices and free limits will be set for vCloud Director resources in the Rate Card meaning that resource usage is free 	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> The <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to the value configured prior to the upgrade to 5.7. If this value was not configured previously, it will be set to <i>unlimited</i>.
Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> the <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited the <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited all the compute zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS CPU Cores</i> and <i>VS RAM</i> parameters in these zones will be set to unlimited all the data store zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS Disk Size</i> parameter in these zones will be set to unlimited all the network zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS IP Addresses</i> parameter in these zones will be set to unlimited <p>Rate Card:</p> <ul style="list-style-type: none"> no prices and free limits will be set for vCloud Director resources in the Rate Card meaning that resource usage is free 					
Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> The <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to the value configured prior to the upgrade to 5.7. If this value was not configured previously, it will be set to <i>unlimited</i>. 					

Server type	Case	Migration behavior
		<ul style="list-style-type: none"> • The <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to the value configured prior to the upgrade to 5.7. If this value was not configured previously, it will be set to <i>unlimited</i>. • The compute zones that were previously in the user billing plan will be added to the Access Control and the <i>VS CPU Cores</i> and <i>VS RAM</i> parameters in these zones will be set to the value configured prior to the upgrade to 5.7. • All the data store zones that were previously in the user billing plan will be added to the Access Control and the <i>VS Disk Size</i> parameter in these zones will be set to the value configured prior to the upgrade to 5.7. • All the network zones that were previously in the user billing plan will be added to the Access Control and the <i>VS IP Addresses</i> in these zones will be set to the value configured prior to the upgrade to 5.7. <p>Rate Card:</p> <ul style="list-style-type: none"> • Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket.
	Master bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> • all compute zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> • the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket • the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> • all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master Template	<p>If there was only the master template and no other data store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> • all data store/network zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as

Server type	Case	Migration behavior
		<p>those that were set in the master template</p> <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
Company Billing Plan	Empty billing plan	<p>If no resources were added to the company billing plan, no resource will be added to the bucket's Access Control and Rate Card. This means that a user under this bucket will have no access to any of the resources in the cloud.</p>
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> the <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited the <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited only the compute zones which were previously added will be present in the Access Control with the limits that were set in the billing plan only the network zones which were previously added will be present in the Access Control with their previously set limits only the network zones which were previously added will be present in the Access Control with their previously set limits <p>Rate Card:</p> <ul style="list-style-type: none"> the prices and free limits will be set according to the prices and free limits configured prior to the upgrade to OnApp 5.7

4.3 Upgrade Control Panel Server

- CP installer for [Installation](#) and [Upgrade](#) contains a new `-D` option enabling to avoid OnApp database dumping during the install/upgrade.
- Installer output is redirected to `./onapp-cp-install.log`
- All installer critical errors are in `/var/log/messages`

To upgrade your Control Panel server:

1. Download and install the latest OnApp YUM repository file:

```
# rpm -Uvh http://rpm.repo.onapp.com/repo/onapp-repo-5.7.noarch.rpm
```

2. Upgrade OnApp Control Panel installer package:

```
# yum update onapp-cp-install
```

3. Update your server OS components (if required):

```
# /onapp/onapp-cp-install/onapp-cp-install.sh -y
```

4. (*Optional*) If you need some custom Control Panel configuration, set the values before the installer script runs.

Edit the `/onapp/onapp-cp.conf` file to set Control Panel custom values

Template server URL

```
TEMPLATE_SERVER_URL='http://templates-manager.onapp.com';
```

IPs (separated with coma) list for the SNMP to trap. This is the list of Control Panel IP addresses on which the traps sent from the compute resources are processed.

```
SNMP_TRAP_IPS=""
```

OnApp Control Panel custom version

```
ONAPP_VERSION=""
```

OnApp MySQL/MariaDB connection data (database.yml)

```
ONAPP_CONN_WAIT_TIMEOUT=15
ONAPP_CONN_POOL=30
ONAPP_CONN_RECONNECT='true'
ONAPP_CONN_ENCODING='utf8'
```

MySQL/MariaDB server configuration data (in case of local server)

```
MYSQL_WAIT_TIMEOUT=604800
MYSQL_MAX_CONNECTIONS=500
MYSQL_LIMITNOFILE=8192
```

[Use MariaDB instead of MySQL as OnApp database server](#) (Deprecated parameter. If you set any values for this parameter, they will not take effect)

```
WITH_MARIADB=0
```

Configure the database server relative amount of available RAM

```
TUNE_DB_SERVER=1
```

The number of C data structures that can be allocated before triggering the garbage collector. It defaults to 8 million. Only change this value if you understand what it does.

```
RUBY_GC_MALLOC_LIMIT=16000000
```

sysctl.conf net.core.somaxconn value

```
NET_CORE_SOMAXCONN=2048
```

The root of OnApp database dump directory (on the Control Panel box)

```
ONAPP_DB_DUMP_ROOT=""
```

Remote server's (to store database dumps) IP, user, path, openssh connection options and number of dumps to keep

```
DB_DUMP_SERVER=""
DB_DUMP_USER="root"
DB_DUMP_SERVER_ROOT="/onapp/backups"
DB_DUMP_SERVER_SSH_OPT="-o StrictHostKeyChecking=no -o
UserKnownHostsFile=/dev/null -o PasswordAuthentication=no"
KEEP_DUMPS=168
```

```
DB_DUMP_CRON='40 * * * *'
```

[Enable monit - tool for managing and monitoring Unix systems](#)

```
ENABLE_MONIT=1
```

If enabled (the 1 value is set) - install (if local box) and configures RabbitMQ Server (messaging system) for the vCloud support. (Deprecated parameter. If you set any values for this parameter, they will not take effect)

```
ENABLE_RABBITMQ=1
```

Rotate transactions' log files created more than TRANS_LOGS_ROTATE_TIME day(s) ago

```
TRANS_LOGS_ROTATE_TIME=30
```

Maximum allowed for uploading file size in bytes, from 0 (meaning unlimited) to 2147483647 (2GB). Default is 0.

```
MAX_UPLOAD_SIZE=0
```

Timeout before ping Redis Server to check if it is started. Default is 10 sec.

```
REDIS_PING_TIMEOUT=10
```

OnApp Control Panel SSL certificates (please do not change if you aren't familiar with SSL certificates)

* The data below to generate self-signed PEM-encoded X.509 certificate

```
SSL_CERT_COUNTRY_NAME=UK
SSL_CERT_ORGANIZATION_NAME='OnApp Limited'
SSL_CERT_ORGANIZATION_ALUNITNAME='OnApp Cloud'
SSL_CERT_COMMON_NAME=`hostname --fqdn 2>/dev/null`
```

```
# SSLCertificateFile, SSLCertificateKeyFile Apache directives' values
# ssl_certificate, ssl_certificate_key Nginx directives' values
```

```
SSLCERTIFICATEFILE=/etc/pki/tls/certs/ca.crt
SSLCERTIFICATECSRFILE=/etc/pki/tls/private/ca.csr
SSLCERTIFICATEKEYFILE=/etc/pki/tls/private/ca.key
```

```
# * PEM-encoded CA Certificate (if custom one exists)
# SSLCACertificateFile, SSLCertificateChainFile Apache directives' values
# ssl_client_certificate Nginx directives' values
```

```
SSLCACERTIFICATEFILE=""
SSLCERTIFICATECHAINFILE=""
```

```
# SSLCipherSuite, SSLProtocol Apache directives' values
# ssl_ciphers, ssl_protocols Nginx directives' values
```

```
SSLCIPHERSUITE=""
SSLPROTOCOL=""
```

```
# vi /onapp/onapp-cp.conf
```

5. Run Control Panel installer:

```
# /onapp/onapp-cp-install/onapp-cp-install.sh
```

For correct display of events you need to update Control Panel with the with the option

`--rake=messaging:fix_events_data`. To do this, run the following command:

```
/onapp/onapp-cp-install/onapp-cp-install.sh --
rake=messaging:fix_events_data
```

If you did not run the rake task during the Control Panel update, you can do it manually after the Control Panel update is done. To do this,

run the following command:

```
# cd /onapp/interface/
# su onapp
# rake messaging:fix_events_data
```

The full list of Control Panel installer options:

Usage:

```
/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]
```

Where:

Database server options:

Default database SQL server is MySQL Server. Please use one of the following option to install LOCALLY.

--mariadb

MariaDB Server

--community

MySQL Community Server

--percona

Percona Server

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

--percona-cluster	Percona Cluster
MYSQL_*	Options are useful if MySQL is already installed and configured.
-m MYSQL_HOST	MySQL host. Default is 'localhost'
--mysql-port=MYSQL_PORT	TCP port where MySQL Server serves connections. Default values is 3306 for the local installation
--mysql-sock[=MYSQL_SOCKET]	Unix socket on which MySQL Server serves connections. Default values is /var/lib/mysql/mysql.sock. Used if local server only. The socket is unset if the option's argument isn't specified.
-p MYSQL_PASSWD	MySQL password. Random is generated if is not set or specified.
-d MYSQL_DB	OnApp MySQL database name. Default is 'onapp'
-u MYSQL_USER	MySQL user. Default is 'root'

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

REDIS_*	Options are useful if Redis Server is already installed and configured.
--redis-host=REDIS_HOST	IP address/FQDN where Redis Server runs. It is used by Control Panel to connect to Redis Server. The Redis Server will be installed and configured on the current box if localhost/127.0.0.1 or box's public IP address (listed in SNMP_TRAP_IPS) is specified. Default value is 127.0.0.1. If local Redis, it will serve as well on the unix socket 'PORT' (if --redis-sock without argument isn't specified).
--redis-bind[=REDIS_BIND]	The IP address for Redis Server to serve connections (to listen). The option isn't mandatory.
--redis-port=REDIS_PORT	Redis Server listen port. Defaults are: 0 - if local server 6379 - if remote server

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL SOCK] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS SOCK] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

--redis-passwd[=REDIS_PASSWD]	Redis Server password to authenticate. Random password is generated if the option's argument isn't specified. By default no password is used for local Redis.
--redis-sock[=REDIS SOCK]:	Path to the Redis Server's socket. Used if local server only. Default is /var/run/redis/redis.sock. The socket is unset if the option's argument isn't specified.
ADMIN_*	Options are used to configure OnApp Control Panel administrator data. Please note, that these options are for NEW INSTALL only and not for upgrade
-P ADMIN_PASSWD	CP administrator password
-F ADMIN_FIRSTNAME	CP administrator first name
-L ADMIN_LASTNAME	CP administrator last name
-E ADMIN_EMAIL	CP administrator e-mail

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

--rbthost RBT_HOST	IP address/FQDN where RabbitMQ Server runs. The RabbitMQ will be installed and configured on the current box if localhost/127.0.0.1 or box's public IP address (enlisted in SNMP_TRAP_IPS) Default value is 127.0.0.1.
VCD_*	Options are usefull if vCloud/RabbitMQ are already installed and configured.
--vcdlogin VCD_LOGIN	RabbitMQ/vCloud user. Default value is 'rbtvcd'.
--vcdpasswd VCD_PASSWD	RabbitMQ/vCloud user password. The random password is generated if isn't specified.
--vcdvhost VCD_VHOST	RabbitMQ/vCloud vhost. Default value is '/'
RBT_*	Options are used to configure RabbitMQ manager account. If local RabbitMQ server.
--rbtlogin RBT_LOGIN	RabbitMQ manager login. The default value is 'rbtmgr'.

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

--rbtpasswd RBT_PASSWD	RabbitMQ manager password. The random password is generated if isn't specified.
--ha-install	Proceed with Control Panel and High Availability components installation.
--rake RAKE_TASKS	List of OnApp Control Panel rake tasks (separated with space) to run at the very end of install or upgrade.
-v ONAPP_VERSION	Install custom OnApp CP version
-i SNMP_TRAP_IPS	IP addresses separated with coma for snmp to trap
-y	Update OS packages (except of OnApp provided) on the box with 'yum update'.
-a	Is not interactive. Process with automatic installation. Please note, this will continue OnApp Control Panel install/upgrade even if there is transaction currently running.
-t	Add to the database and download Base

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

Templates. For new installs only. If this option is not used, then only the following mandatory System Templates will be added by default during fresh install: OnApp CDN Appliance; Load Balancer Virtual Appliance; Application Server Appliance.

--noservices

Do not start OnApp services: monit, onapp and httpd
Please note, crond and all OnApp's cron tasks remain running. They could be disabled by stopping crond service manually for your own risk.

-D

Do not make database dump, and make sure it is disabled in the cron and not running at the moment.

--quick|--quick-update[=SERVICE]

Proceed with quick update procedure. This will skip update and configuration for services, such as system packages, MySQL database, Redis Server, RabbitMQ Server, and Monit service. Set the SERVICE parameter (space separated list of

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

statements) to define services, which need to be updated. Possible reserved statements are:

- rpms* - for 'system packages' upgrade;
- mysql* - for MySQL database upgrade and configuring;
- redis* - for Redis Server upgrade and configuring;
- rabbitmq* - for RabbitMQ Server upgrade and configuring;
- monit* - for Monit upgrade and configuring.

--accept-eula

Automatically accept OnApp's End User License Agreement.

-c CONFIG_FILE

Custom installer configuration file. Otherwise, preinstalled one is used.

-h

Print this info

You may wish to reboot your Control Panel server to take advantage of a new kernel if it is installed. It is not required immediately as a part of the upgrade process though.

4.4 Upgrade Static Compute Resources

At first upgrade your static compute resources.

1. Make sure your compute resource is visible and online in the Control Panel.
2. Download and install the latest OnApp YUM repository file:

```
bash#> rpm -Uvh http://rpm.repo.onapp.com/repo/onapp-repo-5.7.noarch.rpm
```

3. Upgrade OnApp compute resource installer package:

```
yum update onapp-hv-install
```

4. Update your server OS components for XEN compute resource (if required):

```
bash# /onapp/onapp-hv-install/onapp-hv-xen-install.sh -y
```

5. Run compute resource installer:
For CentOS 6 XEN compute resources:

```
bash# /onapp/onapp-hv-install/onapp-hv-xen-install.sh
```

For CentOS 6/7 KVM and CentOS 7 Xen compute resources to download new recovery images, run:

```
bash# /onapp/onapp-hv-install/onapp-hv-xen-install.sh -t
```

6. Reboot static compute resources.

For KVM compute resources only: the kernel package update is a part of "Upgrade Static Compute Resources" default procedure. So reboot is required, if kernel package was upgraded and customer is willing Compute Resource(s) running it (for security reason).

If you do not have the `/home/mq/onapp/messaging/credentials.yml` file on your compute resources and you plan to deploy an Accelerator, run the following command on the CP server:

- For all compute resources:

```
rake hypervisor:messaging:configure
```

- For certain compute resources only:

```
rake hypervisor:messaging:configure['11.0.50.111 11.0.50.112']
```

To perform the configuration for a number of compute resources,

separate their IPs with a space.

For information on manual configuration for Accelerator, refer to [RabbitMQ Configuration for Accelerator](#).

4.5 Upgrade CloudBoot Packages

Create a backup of the /tftpboot directory in case storage packages rollback will be needed.

To upgrade the OnApp Storage packages:

1. Upgrade the repo:

```
CP_host#> rpm -Uvh http://rpm.repo.onapp.com/repo/onapp-repo-5.7.noarch.rpm
```

2. Upgrade the packages:

Depending on the needed compute resource type, you should install `onapp-ramdisk-DISTRO-FLAVOR` package(s), where:

DISTRO - CentOS6 or CentOS7

FLAVOR - XEN, KVM

Also, it is required to install `yum install onapp-ramdisk-centos7-default` together with `onappstore` packages.

It is recommended to update all packages. Below you can find an example:

```
bash#> # yum install onapp-ramdisk-centos7-default
bash#> # yum update onapp-store-install
bash#> # yum update onapp-ramdisk-tools
bash#> # yum update onapp-ramdisk-centos6-kvm
bash#> # yum update onapp-ramdisk-centos6-xen
bash#> # yum update onapp-ramdisk-centos7-kvm
```

After packages update go to the Control Panel's **Settings** menu > **Configuration** and click the **Save Configuration** button.

3. Run the script:

```
CP_host#> /onapp/onapp-store-install/onapp-store-install.sh
```

Be aware that the disk-less nodes password is the root password for the CloudBoot compute resources. By default it is blank.

When run in the interactive mode, enter the required information.

4.6 Upgrade CloudBoot Backup Servers

Make sure to update CloudBoot packages on your Control Panel server before proceeding to the upgrade of CloudBoot backup servers.

CloudBoot backup servers are CloudBooted KVM compute resources that can be used as backup servers. The CloudBoot backup server upgrade procedure is almost the same as the CloudBoot compute resource upgrade. Follow the instructions provided in this section to upgrade CloudBoot backup servers in your cloud.

Once you have upgraded the CloudBoot dependencies, you have to reboot your CloudBoot compute resource to update the Cloud Boot RPM. You do not need to perform any backup server upgrade operations using console.

To do so:

1. Go to your Control Panel **Settings > Compute Resources** menu.
2. Click the label of the CloudBoot compute resource the backup server is based on.
3. On the compute resource details screen, click the **Actions** button, then click **Reboot Compute resource**.
4. A new screen will open asking for confirmation before reboot:
 - **Are you sure you want to reboot this compute resource?** Confirm that you want the compute resource to reboot.
5. When you're certain you want to proceed with the reboot, click the **Reboot** button.
6. Repeat these steps for all CloudBoot backup servers in your cloud.
7. Once all are rebooted, proceed to CloudBoot compute resources upgrade.

4.7 Upgrade CloudBoot Compute Resources

For the upgrade from 5.5 to 5.7:

- For CloudBoot Xen compute resources, only the 'Simple Reboot' upgrade option is available.

- If you are running VSs on Xen compute resources, these VSs should be shut down prior to the upgrade.

Depending on the infrastructure, scale and needs of your cloud we suggest the following methods of upgrading CloudBoot compute resources:

Simple Reboot	This method is the simplest method technically. It also ensures all tools are updated. However, it will result in some limited downtime (its duration depends on how many virtual servers are running on each compute resource).
Migrate and reboot	This method involves migrating all virtual servers off each CloudBoot compute resource in turn. The compute resource can then be safely rebooted, picking up the upgraded Integrated Storage and CloudBoot packages. Virtual servers that do not support hot migrate will have to be stopped.

In case you have applied any custom configuration to your CloudBoot servers, it is recommended to recheck that this customization does not break new cloud boot image version. For this, reboot a compute resource and run [Storage Health Check](#) and [Network Health Check](#). Make sure that Vdisks hosted on a compute resource are redundant and healthy before rebooting a CloudBoot compute resource.

For more information about upgrade scenarios, refer to the [OnApp IS Upgrade Paths](#).

If you are using the [auto-healing](#) functionality for Integrated Storage, make sure to disable it before an upgrade.

4.7.1 Simple Reboot

Follow the below procedure to upgrade the CloudBoot compute resources with reboot:

1. [Upgrade CloudBoot Packages](#).
2. When the CloudBoot packages upgrade is complete, stop all virtual servers which reside on the CloudBoot compute resources.
3. Reboot all CloudBoot compute resources. Once the compute resources are booted, the upgrade is complete. Before starting all Virtual Servers please ensure that the diagnostics page does not report any issue. In case of any issue, please click repair button to resolve it, then continue with starting Virtual Servers.

Note that virtual servers cannot be stopped simultaneously, but must be stopped in sequence. This can result in considerable downtime if there are a large number of virtual servers.

4.7.2 Migrate and Reboot

Use this procedure if you prefer migrating all virtual servers to another compute resource and conducting overall upgrade of your CloudBoot and Integrated Storage. Virtual servers that do not support hot migrate will have to be stopped.

Once you have [upgraded the CloudBoot packages](#), you have to reboot your CloudBoot compute resources to update them.

To do so:

1. Migrate all the virtual servers from the CloudBoot compute resource to another compute resource. Follow the instructions described in the [Migrate Virtual Server](#) section of the Admin guide to migrate virtual servers.
2. After that, go to your Control Panel **Settings** menu.
3. Click the **Compute Resources** icon.
4. Click the label of the CloudBoot compute resource you have migrated all VSs from.
5. On the compute resource details screen, click the **Actions** button, then click **Reboot Compute resource**.

Rebooting a compute resource assigned to a data store with a single replica (single-replica compute resource) or degraded virtual disks may result in data loss.

6. A new screen will open asking for confirmation (via two checkboxes) before reboot:
 - **Stop all virtual servers that cannot be migrated to another compute resource?** Check this box if you want VSs that cannot be migrated to be powered off. When a compute resource is scheduled for a reboot, OnApp will first attempt to hot migrate all VSs it hosts. If hot migration is not possible for a VS, OnApp will attempt to cold migrate that VS. With this box checked, if cold migration fails, the VS will be stopped so the reboot may proceed. If you don't check this box, OnApp will attempt to hot and then cold migrate all VSs hosted by the compute resource being rebooted – but will stop the migration process if any VS cannot be migrated.
 - **Are you sure you want to reboot this compute resource?** A simple confirmation to confirm that you want the compute resource to reboot.

Before the reboot, please ensure that all disks are fully synced and redundant. If some of them are not fully synced, the virtual server, that is owner of a degraded (or non-redundant) vdisk, can loose access to the vdisk. It can be manifested as IO errors during writes or reads to/from the vdisk inside the virtual server.

7. When you're certain you want to proceed with the reboot, click the **Reboot** button.
8. Repeat these steps for all CloudBoot compute resources in your cloud.

4.8 Local Read Policy

Enabling Local Read on a compute zone ensures that the locally stored copy of the data will always be used for reads. This significantly reduces read latency and improves overall storage performance by reducing load on the SAN network. However, in order to use this policy every compute resource must have sufficient physical drives to be able to store the number of stripes specified in the data store. E.g. in a 2R4S data store there must be at least 4 physical disks on the compute resource to use local read.

Changes to Local Read Policy Enforcement

Originally, when this policy was introduced OnApp did not enforce the requirement for the minimum number of drives. Consequently, some users who set the policy having insufficient drives may see the following error message:

```
Fatal: OnApp::Actions::Fatal Storage API Call failed:
{"result"=>"FAILURE", "error"=>"Local reads have been enabled on the zone
- members required per host: 4, required hosts: 2, available hosts: 0"}
```

The solution is to either add additional drives to that compute resource and then add them to the data store or to disable read local.

Getting support for your upgrade

You can use the information in this document to perform your own upgrade to the 5.7 version of the OnApp Cloud. However, if you have a full OnApp Cloud license, you are entitled to free upgrade support from the OnApp Support team.

If you would prefer to have the Support team perform the upgrade for you, just raise a ticket in the normal way. Please be aware, however, that there may be a queue!

5 Upgrade Guide for Cloud with Static Servers

- OnApp version 5.7 is an Edge release which is not designed to be installed in production environments.
- You can update to OnApp 5.7 from versions 5.5 and 5.6.
- If you are running OnApp 5.5, you should upgrade directly to 5.7, skipping 5.6, to avoid possible complications.

This guide explains how to upgrade OnApp Cloud v5.5 and 5.6 to the v5.7 for the cloud where all servers are static. Follow the procedure listed below in the correct order to upgrade your cloud. All packages (Control Panel and Compute resources) must belong to the same major version to ensure the best performance of your cloud.

5.1 Important Notes

1. You must be running the latest patch of OnApp 5.5 or 5.6 version to upgrade to 5.7 version. If you are using an earlier version, please upgrade to [5.5](#) or [5.6](#) first.
2. Check the Activity Log in your OnApp CP dashboard if there are no transactions running in your cloud. If so, wait until all transactions are complete.
3. Make sure no Control Panel files are open for editing under the root user account.
4. If you plan to deploy [Accelerator](#), refer to the [RabbitMQ Configuration for Accelerator](#) document for more details.
5. Be aware that from now on, OnApp Licensing has a standalone client. Use only 443 port to connect from Control Panel to licensing server.
6. We strongly recommend that you test all your custom scripts before upgrading your production environment.
7. Be aware that OnApp does not support UEFI on static compute resources. You should disable UEFI on your compute resources before installing OnApp.
8. If you use custom languages on your CP, after the update please check the [i18n Customization](#) menu to submit translations for new UI labels, texts, and messages that will be available in the *Missing translations* tab.

If you are using WHMCS modules for OnApp, it is not recommended to update your cloud to the latest release. To ensure that all WHMCS modules are working correctly you need to be running a Stable or LTS OnApp version.

On this page:

- [Important Notes](#)
- [Billing Changes](#)
- [Upgrade Control Panel Server](#)
- [Upgrade Static Compute Resources](#)

See also:

[Installation Guide](#)

[Upgrade Guide for Control Panel Server](#)

[Upgrade Guide for Cloud with CloudBooted Servers](#)

[Upgrade Guide for Cloud with Mixed CloudBooted and Static Servers](#)

5.2 Billing Changes

If you are upgrading from OnApp version 5.6, the buckets for *virtual* and *vpc* server type resources will be the same as you have set in OnApp 5.6. *Smart* and *baremetal* server type resources will be migrated into 5.7.

In OnApp 5.7 billing plans have been substituted by buckets. OnApp 5.7 widens the buckets functionality to include Smart and Baremetal server type resources. Buckets enable you to set up resources allocation and pricing separately; the master bucket and master template have been removed. Buckets are subdivided into two tabs:

- *Access Control* - in this section you configure the resources allocation for the users under this bucket. If you assign a bucket to a user, that user will have access only to those resources which you have added to the bucket. If no resources are added to a section of the Access Control, e.g. compute zones, the user under the bucket will not have access to any of the compute zones in the cloud.
- *Rate Card* - in this section you set up prices for the resources and the amount of resources users can request for free. Users under the bucket will be billed according to the prices you configure in the Rate Card.

These tabs are further subdivided into sections that depend on the server types of resources you have in the cloud:

- *Virtual* - the server type under which Xen, KVM, or CloudBoot compute, data store, network and backup server zones of the virtual server type can be created
- *Smart* - the server type under which KVM compute, data store, network and backup server zones of the smart type can be added
- *Baremetal* - the server type under which XEN compute and network zones of the baremetal type can be added
- *VPC* - the server type that *includes* vCloud Director compute, data store and network zones
- *Other* - the resources that relate to the system and do not have a server type. This section includes template stores, edge groups, recipes and service add-on groups

For detailed information, refer to [Buckets](#).

Your billing plans from OnApp 5.5 have been merged into buckets following the logic described in the table below:

Server type	Case	Migration behavior
Virtual	Empty billing plan	Access Control: <ul style="list-style-type: none"> • all resources in the <i>Miscellaneous</i> section (these were previously the <i>User VS Limits</i>) will be added and their limits will be set to <i>unlimited</i> • all template stores, recipe groups and service add-on groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control

Server type	Case	Migration behavior
		<ul style="list-style-type: none"> • none of the edge groups in the system will be added to the Access Control • all data store zones which have SolidFire will be added to the <i>Guaranteed minIOPS</i> section with all limits set to <i>unlimited</i> • all resources of the <i>virtual</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These resources include XEN/KVM/vCenter compute zones, data store, network, and backup server zones of the <i>virtual</i> type <p>Rate Card:</p> <ul style="list-style-type: none"> • the prices for individual templates will be set according to the prices you have previously configured for these templates in the template store • the prices for individual service add-ons will be set according to the prices you have previously configured for these service add-ons in the service add-on groups • for all other resources (IPs, CPU, RAM, etc.) prices and free limits will be set to '0', meaning that the resource usage is free
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> • Only the resources you have previously added will be added to the Access Control. The same limits that were configured prior to the upgrade to 5.7 will be set in the bucket. <p>Rate Card:</p> <ul style="list-style-type: none"> • Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket.
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> • all compute zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> • the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket • the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only</p>

Server type	Case	Migration behavior
		<p>compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master template	<p>If there was only the master template and no other data store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> all data store/network zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
Smart	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> all resources in the <i>Miscellaneous</i> section (smart servers, templates, ISO's & backups storage and backups) will be added and their limits will be set to <i>unlimited</i> all template stores, recipe groups and service add-on groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control none of the edge groups in the system will be added to the Access Control all resources of the <i>smart</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These resources include KVM compute zones, data store, network, and backup server zones of the <i>smart</i> type <p>Rate Card:</p> <ul style="list-style-type: none"> the prices for individual templates will be set according to the prices you have previously configured for these templates in the template store the prices for individual service add-ons will be set according to the prices you have previously configured

Server type	Case	Migration behavior
		<p>for these service add-ons in the service add-on groups</p> <ul style="list-style-type: none"> for all other resources (IPs, CPU, RAM, etc.) prices and free limits will be set to '0', meaning that the resource usage is free
	Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> Only the resources you have previously added will be added to the Access Control. All resources in the <i>Miscellaneous</i> section (smart servers, templates, ISO's & backups storage and backups) will be set to <i>unlimited</i>. All the other resources of the <i>smart</i> type that were configured prior to the upgrade to 5.7 will be set in the bucket as they were set in the billing plan. <p>Rate Card:</p> <ul style="list-style-type: none"> Only the resources for which the prices were previously configured will be added to the Rate Card. All resources in the <i>Miscellaneous</i> section (templates, ISO's & backups storage and backups) will be migrated without prices. Prices for other resources of the <i>smart</i> type that were configured prior to the upgrade to 5.7 will be set in the bucket as they were set in the billing plan. <p>After the upgrade, you can configure limits and prices for resources in the <i>Miscellaneous</i> section of the bucket by following instructions from the Configure Resource Allocation And Prices section of the Administration Guide.</p>
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> all compute zones of the <i>smart</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7

Server type	Case	Migration behavior
	Master template	<p>If there was only the master template and no other data store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> all data store/network zones of the <i>smart</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
Baremetal	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> all resources in the <i>Miscellaneous</i> section (baremetal servers) will be added and their limits will be set to <i>unlimited</i> all template stores, recipe groups and service add-on groups in the cloud will be added to the corresponding sections in the <i>Other</i> tab of the Access Control none of the edge groups in the system will be added to the Access Control all resources of the <i>baremetal</i> type will be added to the Access Control with all limits set to <i>unlimited</i>. These resources include XEN compute and network zones of the <i>baremetal</i> type. <p>Rate Card:</p> <ul style="list-style-type: none"> the prices for individual templates will be set according to the prices you have previously configured for these templates in the template store the prices for individual service add-ons will be set according to the prices you have previously configured for these service add-ons in the service add-on groups for all other resources (IPs) prices and free limits will be set to '0', meaning that the resource usage is free
	Filled-in billing plan	Access Control:

Server type	Case	Migration behavior
		<ul style="list-style-type: none"> Only the resources you have previously added will be added to the Access Control. The same limits that were configured prior to the upgrade to 5.7 will be set in the bucket. <p>Rate Card:</p> <ul style="list-style-type: none"> Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices per IP for powered-on baremetal servers and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket. Prices per IP for powered-off baremetal servers are not migrated and not configured in the bucket. <p>After the upgrade, you can configure limits in the <i>Miscellaneous</i> section of the bucket by following instructions from the Configure Resource Allocation And Prices section of the Administration Guide.</p>
	Master Bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> all compute zones of the <i>baremetal</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master template	<p>If there was only the master template and no other network zones added to the billing plan:</p> <ul style="list-style-type: none"> all network zones of the <i>baremetal</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network zones which had custom limits and pricing will be added to the bucket with the same limits and

Server type	Case	Migration behavior	
		<p>prices as those that were set prior to the upgrade to 5.7</p> <p>If the master template was not used and there were only network zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 	
VPC	User billing plan	Empty billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> the <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited the <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited all the compute zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS CPU Cores</i> and <i>VS RAM</i> parameters in these zones will be set to unlimited all the data store zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS Disk Size</i> parameter in these zones will be set to unlimited all the network zones of the <i>vpc</i> type will be added to the Access Control and the <i>VS IP Addresses</i> parameter in these zones will be set to unlimited <p>Rate Card:</p> <ul style="list-style-type: none"> no prices and free limits will be set for vCloud Director resources in the Rate Card meaning that resource usage is free
		Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> The <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to the value configured prior to the upgrade to 5.7. If this value was not configured previously, it will be set to <i>unlimited</i>. The <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to the value configured prior to the upgrade to 5.7. If this value was not configured previously, it will be set to <i>unlimited</i>. The compute zones that were previously in the user billing plan will be added to the Access Control and the <i>VS CPU Cores</i> and <i>VS RAM</i> parameters in these zones will be set to the value configured prior to the upgrade to 5.7. All the data store zones that were previously in the user billing plan will be added to the Access Control and the <i>VS Disk Size</i> parameter in these zones will be set to the value configured prior to the upgrade to 5.7. All the network zones that were previously in the user billing plan will be added to the Access Control and the

Server type	Case	Migration behavior
		<p><i>VS IP Addresses</i> in these zones will be set to the value configured prior to the upgrade to 5.7.</p> <p>Rate Card:</p> <ul style="list-style-type: none"> Only the resources for which the prices were previously configured will be added to the Rate Card. The same prices and free limits that were configured prior to the upgrade to 5.7 will be set in the bucket.
	Master bucket	<p>If there was only the master bucket and no other compute zones added to the billing plan:</p> <ul style="list-style-type: none"> all compute zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master bucket <p>If there were some compute zones that used the master bucket and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the compute zones that used the master bucket will be added with the same prices and limits as those that were set in the master bucket the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master bucket was not used and there were only compute zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the compute zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7
	Master Template	<p>If there was only the master template and no other data store/network zones added to the billing plan:</p> <ul style="list-style-type: none"> all data store/network zones of the <i>virtual</i> type will be added to the bucket with the same prices and limits as those that were set in the master template <p>If there were some network/data store zones that used the master template and other which had custom limits and prices:</p> <ul style="list-style-type: none"> the network/data store zones that used the master bucket will be added with the same prices and limits as those that were set in the master template the network/data store zones which had custom limits and pricing will be added to the bucket with the same limits and prices as those that were set prior to the upgrade to 5.7 <p>If the master template was not used and there were only network/data store zones with custom limits and prices:</p> <ul style="list-style-type: none"> all the network/data store zones which had custom limits and pricing will be added to the bucket with the same

Server type	Case		Migration behavior
			limits and prices as those that were set prior to the upgrade to 5.7
	Company Billing Plan	Empty billing plan	If no resources were added to the company billing plan, no resource will be added to the bucket's Access Control and Rate Card. This means that a user under this bucket will have no access to any of the resources in the cloud.
		Filled-in billing plan	<p>Access Control:</p> <ul style="list-style-type: none"> the <i>Virtual Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited the <i>Application Server</i> limit in the <i>Miscellaneous</i> section of the Access Control will be set to unlimited only the compute zones which were previously added will be present in the Access Control with the limits that were set in the billing plan only the network zones which were previously added will be present in the Access Control with their previously set limits only the network zones which were previously added will be present in the Access Control with their previously set limits <p>Rate Card:</p> <ul style="list-style-type: none"> the prices and free limits will be set according to the prices and free limits configured prior to the upgrade to OnApp 5.7

5.3 Upgrade Control Panel Server

To upgrade your Control Panel server:

1. Download and install the latest OnApp YUM repository file:

```
# rpm -Uvh http://rpm.repo.onapp.com/repo/onapp-repo-5.7.noarch.rpm
```

2. Upgrade OnApp Control Panel installer package:

```
# yum update onapp-cp-install
```

3. Update your server OS components (if required):

```
# /onapp/onapp-cp-install/onapp-cp-install.sh -y
```

4. (Optional) If you need some custom Control Panel configuration, set the values before the installer script runs.

Edit the `/onapp/onapp-cp.conf` file to set Control Panel custom values

Template server URL

```
TEMPLATE_SERVER_URL='http://templates-manager.onapp.com';
```

IPs (separated with coma) list for the SNMP to trap. This is the list of Control Panel IP addresses on which the traps sent from the compute resources are processed.

```
SNMP_TRAP_IPS=""
```

OnApp Control Panel custom version

```
ONAPP_VERSION=""
```

OnApp MySQL/MariaDB connection data (database.yml)

```
ONAPP_CONN_WAIT_TIMEOUT=15
ONAPP_CONN_POOL=30
ONAPP_CONN_RECONNECT='true'
ONAPP_CONN_ENCODING='utf8'
```

MySQL/MariaDB server configuration data (in case of local server)

```
MYSQL_WAIT_TIMEOUT=604800
MYSQL_MAX_CONNECTIONS=500
MYSQL_LIMITNOFILE=8192
```

[Use MariaDB instead of MySQL as OnApp database server](#) (Deprecated parameter. If you set any values for this parameter, they will not take effect)

```
WITH_MARIADB=0
```

Configure the database server relative amount of available RAM

```
TUNE_DB_SERVER=1
```

The number of C data structures that can be allocated before triggering the garbage collector. It defaults to 8 million. Only change this value if you understand what it does.

```
RUBY_GC_MALLOC_LIMIT=16000000
```

sysctl.conf net.core.somaxconn value

```
NET_CORE_SOMAXCONN=2048
```

The root of OnApp database dump directory (on the Control Panel box)

```
ONAPP_DB_DUMP_ROOT=""
```

Remote server's (to store database dumps) IP, user, path, openssh connection options and number of dumps to keep

```
DB_DUMP_SERVER=""
DB_DUMP_USER="root"
DB_DUMP_SERVER_ROOT="/onapp/backups"
DB_DUMP_SERVER_SSH_OPT="-o StrictHostKeyChecking=no -o
UserKnownHostsFile=/dev/null -o PasswordAuthentication=no"
KEEP_DUMPS=168
DB_DUMP_CRON='40 * * * *'
```

[Enable monit - tool for managing and monitoring Unix systems](#)

```
ENABLE_MONIT=1
```

If enabled (the 1 value is set) - install (if local box) and configures RabbitMQ Server (messaging system) for the vCloud support. (Deprecated parameter. If you set any values for this parameter, they will not take effect)

```
ENABLE_RABBITMQ=1
```

Rotate transactions' log files created more than TRANS_LOGS_ROTATE_TIME day(s) ago

```
TRANS_LOGS_ROTATE_TIME=30
```

Maximum allowed for uploading file size in bytes, from 0 (meaning unlimited) to 2147483647 (2GB). Default is 0.

```
MAX_UPLOAD_SIZE=0
```

Timeout before ping Redis Server to check if it is started. Default is 10 sec.

```
REDIS_PING_TIMEOUT=10
```

OnApp Control Panel SSL certificates (please do not change if you aren't familiar with SSL certificates)

* The data below to generate self-signed PEM-encoded X.509 certificate

```
SSL_CERT_COUNTRY_NAME=UK
SSL_CERT_ORGANIZATION_NAME='OnApp Limited'
SSL_CERT_ORGANIZATION_ALUNITNAME='OnApp Cloud'
SSL_CERT_COMMON_NAME=`hostname --fqdn 2>/dev/null`
```

SSLCertificateFile, SSLCertificateKeyFile Apache directives' values

ssl_certificate, ssl_certificate_key Nginx directives' values

```
SSLCERTIFICATEFILE=/etc/pki/tls/certs/ca.crt
SSLCERTIFICATECSRFILE=/etc/pki/tls/private/ca.csr
SSLCERTIFICATEKEYFILE=/etc/pki/tls/private/ca.key
```

* PEM-encoded CA Certificate (if custom one exists)

SSLCACertificateFile, SSLCertificateChainFile Apache directives' values

ssl_client_certificate Nginx directives' values

```
SSLCACERTIFICATEFILE=""
SSLCERTIFICATECHAINFILE=""
```

SSLCipherSuite, SSLProtocol Apache directives' values

ssl_ciphers, ssl_protocols Nginx directives' values

```
SSLCIPHERSUITE=""
SSLPROTOCOL=""
```

```
# vi /onapp/onapp-cp.conf
```

5. Run Control Panel installer:

```
# /onapp/onapp-cp-install/onapp-cp-install.sh
```

For correct display of events you need to update Control Panel with the with the option

`--rake=messaging:fix_events_data`. To do this, run the following command:

```
/onapp/onapp-cp-install/onapp-cp-install.sh --  
rake=messaging:fix_events_data
```

If you did not run the rake task during the Control Panel update, you can do it manually after the Control Panel update is done. To do this, run the following command:

```
# cd /onapp/interface/  
# su onapp  
# rake messaging:fix_events_data
```

The full list of Control Panel installer options:

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

Where:	
Database server options:	Default database SQL server is MySQL Server. Please use one of the following option to install LOCALLY.
--mariadb	MariaDB Server
--community	MySQL Community Server
--percona	Percona Server
--percona-cluster	Percona Cluster
MYSQL_*	Options are useful if MySQL is already installed and configured.
-m MYSQL_HOST	MySQL host. Default is 'localhost'
--mysql-port=MYSQL_PORT	TCP port where MySQL Server serves connections. <i>Default values is 3306 for the local installation</i>
--mysql-sock[=MYSQL_SOCKET]	Unix socket on which MySQL Server serves connections. Default values is

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

	/var/lib/mysql/mysql.sock. Used if local server only. The socket is unset if the option's argument isn't specified.
-p MYSQL_PASSWD	MySQL password. Random is generated if is not set or specified.
-d MYSQL_DB	OnApp MySQL database name. Default is 'onapp'
-u MYSQL_USER	MySQL user. Default is 'root'
REDIS_*	Options are useful if Redis Server is already installed and configured.
--redis-host=REDIS_HOST	IP address/FQDN where Redis Server runs. It is used by Control Panel to connect to Redis Server. The Redis Server will be installed and configured on the current box if localhost/127.0.0.1 or box's public IP address (listed in SNMP_TRAP_IPS) is specified. Default value is 127.0.0.1. If local Redis, it will serve as well on the unix socket 'PORT' (if --redis-sock without argument isn't

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

	specified).
--redis-bind[=REDIS_BIND]	The IP address for Redis Server to serve connections (to listen). The option isn't mandatory.
--redis-port=REDIS_PORT	Redis Server listen port. Defaults are: 0 - if local server 6379 - if remote server
--redis-passwd[=REDIS_PASSWD]	Redis Server password to authenticate. Random password is generated if the option's argument isn't specified. By default no password is used for local Redis.
--redis-sock[=REDIS_SOCKET]:	Path to the Redis Server's socket. Used if local server only. Default is /var/run/redis/redis.sock. The socket is unset if the option's argument isn't specified.
ADMIN_*	Options are used to configure OnApp Control Panel administrator data.

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

	Please note, that these options are for NEW INSTALL only and not for upgrade
-P ADMIN_PASSWD	CP administrator password
-F ADMIN_FIRSTNAME	CP administrator first name
-L ADMIN_LASTNAME	CP administrator last name
-E ADMIN_EMAIL	CP administrator e-mail
--rbthost RBT_HOST	IP address/FQDN where RabbitMQ Server runs. The RabbitMQ will be installed and configured on the current box if localhost/127.0.0.1 or box's public IP address (enlisted in SNMP_TRAP_IPS) Default value is 127.0.0.1.
VCD_*	Options are usefull if vCloud/RabbitMQ are already installed and configured.
--vcdlogin VCD_LOGIN	RabbitMQ/vCloud user. Default value is 'rbtvcd'.

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

--vcdpasswd VCD_PASSWD	RabbitMQ/vCloud user password. The random password is generated if isn't specified.
--vcdvhost VCD_VHOST	RabbitMQ/vCloud vhost. Default value is '/'
RBT_*	Options are used to configure RabbitMQ manager account. If local RabbitMQ server.
--rbtlogin RBT_LOGIN	RabbitMQ manager login. The default value is 'rbtmgr'.
--rbtpasswd RBT_PASSWD	RabbitMQ manager password. The random password is generated if isn't specified.
--ha-install	Proceed with Control Panel and High Availability components installation.
--rake RAKE_TASKS	List of OnApp Control Panel rake tasks (separated with space) to run at the very end of install or upgrade.
-v ONAPP_VERSION	Install custom OnApp CP version

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

-i SNMP_TRAP_IPS	IP addresses separated with coma for snmp to trap
-y	Update OS packages (except of OnApp provided) on the box with 'yum update'.
-a	Is not interactive. Process with automatic installation. Please note, this will continue OnApp Control Panel install/upgrade even if there is transaction currently running.
-t	Add to the database and download Base Templates. For new installs only. If this option is not used, then only the following mandatory System Templates will be added by default during fresh install: OnApp CDN Appliance; Load Balancer Virtual Appliance; Application Server Appliance.
--noservices	Do not start OnApp services: monit, onapp and httpd Please note, crond and all OnApp's cron tasks remain running. They could be disabled by stopping crond service

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

	manually for your own risk.
-D	Do not make database dump, and make sure it is disabled in the cron and not running at the moment.
--quick --quick-update[=SERVICE]	Proceed with quick update procedure. This will skip update and configuration for services, such as system packages, MySQL database, Redis Server, RabbitMQ Server, and Monit service. Set the SERVICE parameter (space separated list of statements) to define services, which need to be updated. Possible reserved statements are: <i>rpms</i> - for 'system packages' upgrade; <i>mysql</i> - for MySQL database upgrade and configuring; <i>redis</i> - for Redis Server upgrade and configuring; <i>rabbitmq</i> - for RabbitMQ Server upgrade and configuring; <i>monit</i> - for Monit upgrade and configuring.
--accept-eula	Automatically accept OnApp's End User

Usage:

```

/onapp/onapp-cp-
install/onapp-cp-
install.sh [-c
CONFIG_FILE] [--mariadb |
--community | --percona |
--percona-cluster] [-m
MYSQL_HOST] [--mysql-
port=MYSQL_PORT] [--mysql-
sock[=MYSQL_SOCKET] [-p
MYSQL_PASSWD] [-d
MYSQL_DB] [-u MYSQL_USER]
[-U ADMIN_LOGIN] [-P
ADMIN_PASSWD] [-F
ADMIN_FIRSTNAME] [-L
ADMIN_LASTNAME] [-E
ADMIN_EMAIL] [-v
ONAPP_VERSION] [-i
SNMP_TRAP_IPS] [--redis-
host=REDIS_HOST] [--redis-
bind[=REDIS_BIND] [--
redis-
passwd[=REDIS_PASSWD] [--
redis-port=REDIS_PORT] [--
redis-sock[=REDIS_SOCKET] [-
-rbthost RBT_HOST] [--
vcdlogin VCD_LOGIN] [--
vcdpasswd VCD_PASSWD] [--
vcdvhost VCD_VHOST] [--
rbtlogin RBT_LOGIN] [--
rbtpasswd RBT_PASSWD] [-a]
[-y] [-D] [-t] [--
noservices] [--ha-install]
[--rake=RAKE_TASKS] [-h]

```

	License Agreement.
-c CONFIG_FILE	Custom installer configuration file. Otherwise, preinstalled one is used.
-h	Print this info

You may wish to reboot your Control Panel server to take advantage of a new kernel if it is installed. It is not required immediately as a part of the upgrade process though.

If you face the problem with viewing the maps on VS/Smart/Application server creation wizard (Locations step), refer to the [Add Google Map API Key](#) document.

5.4 Upgrade Static Compute Resources

At first upgrade your static compute resources.

1. Make sure your compute resource is visible and online in the Control Panel.
2. Download and install the latest OnApp YUM repository file:

```
bash#> rpm -Uvh http://rpm.repo.onapp.com/repo/onapp-repo-5.7.noarch.rpm
```

3. Upgrade OnApp compute resource installer package:

```
yum update onapp-hv-install
```

4. Update your server OS components for XEN compute resource (if required):

```
bash# /onapp/onapp-hv-install/onapp-hv-xen-install.sh -y
```

5. Run compute resource installer:
For CentOS 6 XEN compute resources:

```
bash# /onapp/onapp-hv-install/onapp-hv-xen-install.sh
```

For CentOS 6/7 KVM and CentOS 7 Xen compute resources to download new recovery images, run:

```
bash# /onapp/onapp-hv-install/onapp-hv-xen-install.sh -t
```

6. Reboot static compute resources.

For KVM compute resources only: the kernel package update is a part of "Upgrade Static Compute Resources" default procedure. So reboot is required, if kernel package was upgraded and customer is willing Compute Resource(s) running it (for security reason).

If you do not have the `/home/mq/onapp/messaging/credentials.yml` file on your compute resources and you plan to deploy an Accelerator, run the following command on the CP server:

- For all compute resources:

```
rake hypervisor:messaging:configure
```

- For certain compute resources only:

```
rake hypervisor:messaging:configure['11.0.50.111 11.0.50.112']
```

To perform the configuration for a number of compute resources, separate their IPs with a space.

For information on manual configuration for Accelerator, refer to [RabbitMQ Configuration for Accelerator](#).



Getting support for your upgrade

You can use the information in this document to perform your own upgrade to the 5.7 version of the OnApp Cloud. However, if you have a full OnApp Cloud license, you are entitled to free upgrade support from the OnApp Support team.

If you would prefer to have the Support team perform the upgrade for you, just raise a ticket in the normal way. Please be aware, however, that there may be a queue!

6 Upgrade to Custom Control Panel Version

- OnApp version 5.7 is an Edge release which is not designed to be installed in production environments.
- You can update to OnApp 5.7 from versions 5.5 and 5.6.
- If you are running OnApp 5.5, you should upgrade directly to 5.7, skipping 5.6, to avoid possible complications.
- You should use the standard upgrade procedure whenever possible to ensure you have the latest features and fixes. Only use the custom upgrade when you have a specific reason for installing an older version.

With OnApp you can upgrade to a custom CP version, i.e. not the latest one available in production. Make sure to update within the same major version. For example, you can upgrade from 3.2.2-9 to 3.2.2-x, but not from 3.0.x-x to 3.2.x-x.

To upgrade to the specific OnApp Control Panel version, perform the following steps:

1. Run the following command to eliminate all of the files which yum uses to determine the remote availability of packages:

```
# yum clean metadata
```

2. Remove OnApp:

```
# yum remove onapp-cp
```

3. Install OnApp Control Panel installer package for the [required Control Panel version](#):

```
# yum install onapp-cp-<ONAPP_VERSION>
```

Where:

ONAPP_VERSION - the required OnApp version with its build, e.g. 3.2.2-15

See also:

- [Upgrade Guide for Control Panel Server](#)
- [Upgrade Guide for Cloud with CloudBooted Servers](#)
- [Upgrade Guide for Cloud with Static Servers](#)
- [Upgrade Guide for Cloud with Mixed CloudBooted and Static Servers](#)

7 OS Components Upgrade

- OnApp version 5.7 is an Edge release which is not designed to be installed in production environments.
- You can update to OnApp 5.7 from versions 5.5 and 5.6.
- If you are running OnApp 5.5, you should upgrade directly to 5.7, skipping 5.6, to avoid possible complications.

From now on, there is a possibility to update the OS components for static Compute resource, Control Panel Server, and static Backup Server outside of the distributive packages provided by OnApp.

To do so:

1. Upgrade the installer:

- **For Control Panel**

```
bash#> yum update onapp-cp-install
```

- **For Compute resource**

```
bash#> yum update onapp-hv-install
```

- **For Backup Server**

```
bash#> yum update onapp-bk-install
```

2. Run the following script to update the OS components

- **For Control Panel**

```
bash# /onapp/onapp-cp-install/onapp-cp-install.sh -y
```

- **For XEN Compute resource**

```
bash# /onapp/onapp-hv-install/onapp-hv-xen-install.sh
-y
```

- **For KVM Compute resource**

```
bash# /onapp/onapp-hv-install/onapp-hv-kvm-install.sh
-y
```

- **For Backup Server**

```
/onapp/onapp-bk-install/onapp-bk-install.sh -y
```

See also:

[Upgrade Guide for Control Panel Server](#)

[Upgrade Guide for Cloud with CloudBooted Servers](#)

[Upgrade Guide for Cloud with Static Servers](#)

[Upgrade Guide for Cloud with Mixed CloudBooted and Static Servers](#)

8 OnApp IS Upgrade Paths

- OnApp version 5.7 is an Edge release which is not designed to be installed in production environments.
- You can update to OnApp 5.7 from versions 5.5 and 5.6.
- If you are running OnApp 5.5, you should upgrade directly to 5.7, skipping 5.6, to avoid possible complications.

IS Version upgrading to	5.0.0-21	5.1.0-5	5.2.0-5	5.3	5.4	5.5	5.6	5.7
Upgrade by "Simple Reboot"	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Upgrade by "Migrate and Reboot"	Yes	Yes	Yes	Yes	Yes*	Yes	Yes	Yes
Upgrade by "LiveUpgrade"	N/A	N/A	Yes	N/A	Yes*	Yes	No	No

* Applicable only for CentOS 6 KVM/XEN

Yes - recommended by OnApp

N/A - not recommended by OnApp, will not update properly the Cloudboot OS or Integrated Storage

No - not available in the corresponding release

- For versions < 5.0 please use only "Simple Reboot" upgrade method. Use "Migrate and reboot" only if you are running 4.2.1-8.
- For information about the upgrade of versions previous to 5.0.0-21, refer to the [OnApp IS Upgrade Paths \(4.0.0-3 - 4.2.1-11 versions\)](#) section.

8.1 General information and recommendations about CloudBoot OS and Integrated Storage upgrades

Starting with OnApp 5.0 LTS, we have made some changes to updates for CloudBoot OS and Integrated Storage.

CloudBoot OS upgrades that include security patches, kernel upgrades and updated drivers will be released on a regular basis. If a security patch was released by CentOS it will be included in the next released RPM.

These releases may not include updates for Integrated Storage, a component of the CloudBoot OS, as this platform is very stable and does not require changes with every release.

For the best experience, stability and security OnApp recommends that the CloudBoot compute resources should be upgraded by reboot at a convenient time if a new CloudBoot RPM is released. This is required to completely apply the security patches, kernel upgrades and updated drivers.

Integrated Storage as a platform does not strictly require the CloudBoot compute resource to be rebooted after upgrade. However in case of critical updates and fixes it can be required to reboot the CloudBoot compute resource for them to take full effect. Currently only version 4.1 requires to be rebooted after Integrated Storage update. OnApp will notify in future release notes if the Simple Reboot method is the recommended way to upgrade.

8.1.1 Each upgrade procedure explanation:

Simple Reboot

This upgrade method requires to reboot the CloudBoot compute resources with all VSs (Virtual Servers) powered off to apply security patches, kernel upgrades and updated drivers to the CloudBoot OS. Simple reboot is the fastest and the safest way to upgrade, but does result in some downtime for the Virtual Servers. Integrated Storage virtual disks do not become degraded. This upgrade method also upgrades the Integrated Storage platform as a component of the CloudBoot OS.

Migrate and Reboot

This upgrade method requires to reboot the CloudBoot compute resources to apply security patches, kernel upgrades and updated drivers to the CloudBoot OS and Integrated Storage platform. Your VSs will remain online, you only need to migrate them from the CloudBoot compute resources that will be rebooted. Keep in mind that it is required to repair any degraded virtual disks before proceeding with reboot.

LiveUpgrade

This upgrade method upgrades the Integrated Storage platform only. Your VSs will remain online. There is almost no risk of data loss and zero downtime. However this method does not update the CloudBoot OS, you will not get the security patches, kernel upgrades and updated drivers if they are included in the release.

- The Live Upgrade method is not available for upgrade from OnApp 5.5 to 5.6; OnApp 5.5/5.6 to 5.7.
- Starting from OnApp 5.3 version, each CloudBoot OS image is divided to a separate package for better experience and support. For example if the CentOS 6 Xen CloudBoot OS image receives a security patch it will be updated and released by OnApp. Only this image will be downloaded during the upgrade procedure, saving internet traffic and time.

Please contact our Support team if you are unsure regarding the right upgrade path for you to ensure you choose the right path for you and your clients.