

OnApp Cloud 6.5 Edge 1 Upgrade Guide

Table of Contents

1	What's New	4
1.1	Password Encryption.....	4
1.2	Updated UI	4
2	Upgrade Notes.....	5
2.1	Control Panel Server	5
2.2	Compute Resources.....	5
2.3	Backup Resource Zones	6
2.4	Downgrade OnApp Version.....	6
3	Upgrade from 6.4 to 6.5 Edge 1	7
3.1	Upgrade Guide for Control Panel Server (from 6.4).....	7
3.1.1	Upgrade Control Panel Server	7
3.2	Upgrade Cloud with Static Servers (from 6.4).....	17
3.2.1	Upgrade Control Panel Server	18
3.2.2	Upgrade Static Compute Resources	18
3.2.3	Upgrade Static Backup Servers	18
4	Getting Support for Upgrade	19
4.1	Professional Services	19
4.2	OnApp Community	19
4.3	Knowledge Base.....	19
4.4	Documentation	19

The support status of Xen changes to End of Support in OnApp 6.5. Please note that we will no longer develop features for Xen, or provide full support for Xen compute resources in OnApp clouds. You may migrate your VSs from Xen to KVM.

CentOS 6 reached End of Life and is no longer supported. That is why we recommend you upgrade to [CentOS 7](#).

This guide provides instructions on how to upgrade OnApp Cloud to the 6.5 Edge 1 version. You can update to OnApp 6.5 Edge 1 from OnApp 6.4. Depending on the version that you have, refer to one of the following documentation sets.

Upgrade from OnApp 6.4

- [Upgrade Control Panel Servers](#)
- [Upgrade Cloud with Static Servers](#)

1 What's New

The OnApp Cloud 6.5 Edge 1 provides new features and improvements. OnApp 6.5, the support status of Xen changes to End of Support. We will no longer develop features for Xen or provide full support for Xen compute resources in OnApp clouds. That is why we recommend you [migrate your VSs from Xen to KVM](#). CentOS 6 also reached End of Life and is no longer supported. You may upgrade to [CentOS 7](#).

You can find the list of all key enhancements at [Release Notes](#).



1.1 Password Encryption

Introduced a more consistent approach for password encryption. Accordingly, we updated the name and structure of the OnApp [database dump file](#).



1.2 Updated UI

In OnApp 6.5 Edge 1, we updated the Help and Alert pages to match the new UI layout design.

2 Upgrade Notes

You can update to OnApp 6.5 Edge 1 from OnApp 6.4. Before upgrading to OnApp 6.5 Edge 1, read these upgrade notes to get ready for the upgrade.

Please note that:

- The support status of Xen changes to End of Support in OnApp 6.5. We will no longer develop features or provide full support for Xen compute resources in OnApp clouds. That is why we recommend you migrate your VSs from Xen to KVM.
- CentOS 6 reached End of Life and is no longer supported. You may upgrade to CentOS 7.

To test the upgrade, you may first simulate the upgrade process in the test environment. For the instructions, refer to the [Configuring Control Panel Environment for Simulation Purposes](#) page.

2.1 Control Panel Server

- Check the Activity Log on your OnApp CP dashboard if there are no transactions running on your cloud. Wait until all transactions are completed before proceeding to the upgrade.
- Make sure no Control Panel files are open for editing under the root user account.
- 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.
- If you use custom languages on your CP, after the upgrade, run the following tasks to import a custom language to Control Panel:

```
su onapp
cd /onapp/interface; RAILS_ENV=production rake onapp:language:sync
RAILS_ENV=production rake onapp:language:import
```

- If you plan to deploy Accelerator, refer to the [RabbitMQ Configuration for Accelerator](#) document for more details.

2.2 Compute Resources

Since OnApp 6.4, you can migrate from old compute resources to the newly introduced vCenter servers, where the cloud architecture will be reproduced automatically.

- A cluster is treated as a compute resource and named after it, placed in a separate compute zone, also named after the cluster.
- The networks and data store are in the same network zones and data store zones they used to before the update.

- The relations between networks, compute resources, and data stores are the same as in vCenter.

2.3 Backup Resource Zones

If you are using the Veeam plugin, after the upgrade to 6.5 Edge 1, your compute zone will be split into different zones and will not be joined to the backup resource zone with the Veeam plugin.

You should add the newly created zones to the backup resource zone with the Veeam plugin after the upgrade.

To do that:

1. Go to **Settings > Compute Zones**, click the label of a compute zone you are interested in > **Tools > Manage Backup Resource Zones**
2. On the page that loads, pick the needed Backup Resource Zone from the dropdown
3. Click **Submit** to save the changes

2.4 Downgrade OnApp Version

Unfortunately it is not possible to downgrade your version of OnApp once it has been upgraded. The only way to return to a previous version is to do a fresh [install](#) of the OnApp software using the version you would like to use again. You will also need to restore your database from a database dump from before the installation.

3 Upgrade from 6.4 to 6.5 Edge 1

The guides in this section apply to upgrade to OnApp 6.5 Edge 1 from the 6.4 version.

3.1 Upgrade Guide for Control Panel Server (from 6.4)

Before upgrade, please make sure that:

- All vCenter network and datastore zones in OnApp have a correctly set datacenter
- The labels of compute resources in OnApp UI do not match the cluster names in your vCenter environment
- All cluster names in all datacenters are unique in your vCenter environment

- Please note that we updated the name and structure of the OnApp [database dump file](#).
- The support status of Xen changes to End of Support in OnApp 6.5. We will no longer develop features for Xen or provide full support for Xen compute resources in OnApp clouds. That is why we recommend you [migrate your VSs from Xen to KVM](#).
- CentOS 6 reached End of Life and is no longer supported. You may upgrade to [CentOS 7](#).
- To test the upgrade, you may first simulate the upgrade process on the test environment. For the instructions, refer to the [Configuring Control Panel Environment for Simulation Purposes](#) page.

This guide provides an instruction on how to upgrade your Control Panel server from OnApp Cloud 6.4 to 6.5 Edge 1. 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.

3.1.1 Upgrade Control Panel Server

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

To upgrade your Control Panel server:

1. Download the OnApp YUM repository file

```
# rpm -Uvh http://rpm.repo.onapp.com/repo/onapp-repo-6.5.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-install1.sh -y
```

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

The list of custom configuration options for Control Panel.

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

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=""
```

5. Run the Control Panel installer

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

Please, answer 'yes' when the installer prompts to initiate images, templates, and ISOs download.

The full list of installer options for Control Panel.

Usage:

```
# /onapp/onapp-cp-install/onapp-cp-install.sh -h
Usage: /onapp/onapp-cp-install/onapp-cp-install.sh [-c CONFIG_FILE] [--mariadb | --mariadb-custom | --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] [--quick|--quick-update[=SERVICE] [--accept-eula] [-w] [-h]
```

Database server options:

Default database SQL server is MySQL Server.

Please use one of the following option to

install LOCALLY:

```
--mariadb           : MariaDB Server
--mariadb-custom   : MariaDB Server (custom for CentOS 7.x
only)

--community       : MySQL Community Server
--percona          : Percona Server
--percona-cluster : Percona Cluster

-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'
```

Redis Server options:

```
--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
```

```

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.

```

Options to manage OnApp Control Panel administrator account:
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

```

RabbitMQ Server and vCloud options:

```

--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 values 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'.
--rbtpasswd RBT_PASSWD : RabbitMQ manager
password. The random password is generated if isn't specified.

```

General options:

```

--ha-install : Proceed with Control Panel and
High Availability components installation
RHEL/CentOS 7.x is supported only!

```

```

--rake RAKE_TASKS : List of OnApp Control Panel
rake tasks (separated with space) to run at the very end of install or
upgrade

```

```

version                                -v ONAPP_VERSION : Install custom OnApp CP

coma for snmp to trap                  -i SNMP_TRAP_IPS : IP addresses separated with

provided) on the box with 'yum update'. -y : Update OS packages (except of OnApp

automatic installation.                -a : Do not be interactive. Process with

Please note, this will continue OnApp
Control Panel install/upgrade even there is transaction currently running.

Templates. For new installs only.    -t : Add to the database and download Base

--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

-w : Do not disable iptables service.
Is applicable on fresh installs only.

--quick|--quick-update[=SERVICE] : Proceed
with quick update procedure.          This will skip update and
configure for services, like: system packages, MySQL database, Redis
Server, RabbitMQ Server, Monit service

Set the SERVICE parameter
(space separated list of statements) to define services, which update is
needed.

Possible reserved
statements are:
rpms - for 'system
packages' upgrade;
mysql - for MySQL
database upgrade ond configuring;
redis - for ERedis
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
(DEPRICATED)

-c CONFIG_FILE : Custom installer
configuration file. Otherwise, preinstalled one is used.

-h : print this info

```

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

Where:	
--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 /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 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.

Where:	
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
--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'.
--rbtpasswd RBT_PASSWD	RabbitMQ manager password. The random password is generated if isn't specified.
--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. Please note that if there were significant changes in packages between the version you want to install and the current OnApp version, the installation might be unsuccessful.
-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

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

3.2 Upgrade Cloud with Static Servers (from 6.4)

- The support status of Xen changes to End of Support in OnApp 6.5. We will no longer develop features or provide full support for Xen compute resources in OnApp clouds. That is why we recommend you [migrate your VSs from Xen to KVM](#).
- CentOS 6 reached End of Life and is no longer supported. You may upgrade to [CentOS 7](#).
- To test the upgrade, you may first simulate the upgrade process on the test environment. For the instructions, refer to the [Configuring Control Panel Environment for Simulation Purposes](#) page.

This guide explains how to upgrade OnApp Cloud 6.4 to 6.5 Edge1 for a cloud with static servers. Follow the procedure listed below in the provided order to upgrade your cloud. All the packages (Control Panel and Static compute resources) must belong to the same major version to ensure the best performance of your cloud.

On this page:

- [Upgrade Control Panel Server](#)

- [Upgrade Static Compute Resources](#)
- [Upgrade Static Backup Servers](#)

See also:

- [Upgrade Guide for Control Panel Server](#)

3.2.1 Upgrade Control Panel Server

To upgrade the Control Panel server, follow the procedure at [Upgrade Guide for Control Panel Server](#).

3.2.2 Upgrade Static Compute Resources

To upgrade static compute resources, follow the next procedure:

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

```
# rpm -Uvh http://rpm.repo.onapp.com/repo/onapp-repo-6.5.noarch.rpm
```

3. Upgrade static compute resources installer packages:

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

4. Run the installer to update static CentOS7 KVM compute resource:

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

3.2.3 Upgrade Static Backup Servers

To upgrade static compute resources, follow the next procedure:

1. Download the OnApp YUM repository file:

```
# rpm -Uvh http://rpm.repo.onapp.com/repo/onapp-repo-6.5.noarch.rpm
```

2. Upgrade OnApp backup server installer package:

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

3. Update onapp-storage API package

```
# yum update onapp-storageAPI
```

4 Getting Support for Upgrade

You can use the instructions in this guide to upgrade your OnApp Cloud. If you have a full OnApp Cloud license, you can receive free upgrade support from the OnApp Support team. If you prefer to have the Support team perform the upgrade for you, [submit a request](#) to schedule the upgrade.

You can also refer to the following sources when you need help:

4.1 Professional Services

Get in touch with our [Professional Services](#) to get expert help from launch to production and beyond.

4.2 OnApp Community

Visit [OnApp Community](#) that is a public forum where you can share your feedback and product ideas. Only OnApp customers can give suggestions but anyone can explore them.

4.3 Knowledge Base

Visit [Knowledge Base](#) where you can find a lot of how-to articles to resolve questions that you may face while working with OnApp.

4.4 Documentation

You are now located in one of the OnApp documentation spaces that is [Upgrade Guide](#). Go to [Documentation Home](#) to browse other available spaces.