Manage ISO Virtual Servers

OnApp Cloud gives you high-end cloud management features for virtual servers that are built from ISOs including:

Virtual Server Options	Power Options	Administrative Options	Networks	Disks	Statistics
Edit	Reboot / Reboot in recovery	Change owner	Configure network interface	Create disks	CPU utilization
Migrate	Suspend		Set firewall rules	Edit disks	Billing statistics
Delete	Shut down		Virtual server IP addresses	Migrate disks	Network interface statistics
Segregate	Startup / Startup on Recovery		Display network speed for network interfaces	Delete disks	Disk IOPS statistics
	Boot from ISO		Edit network speed		

> ⚠ Ensure that *ISO* permissions are on before managing ISO virtual servers. For more information about permissions refer to the List of all OnApp Permissions section of the Administrator guide.

This document provides the information on how you can manage the virtual servers built from ISO.

Edit ISO Virtual Server

You can edit resources for all VSs. Depending on the OS it is built on, some VSs can have their CPU and RAM resized without needing to be powered off ("resize without reboot"). If the VS template allows resize without reboot, the resize should be completed automatically: you will be returned to the VS details screen and see a message indicating the resize was successful. If the template does not allow this, you will be asked to confirm that the VS will need rebooting so that the resize can take place.

> ⊘ Windows virtual servers cannot be resized without reboot.

The Edit Virtual Server screen will differ depending the way the VS resources were selected: either manually or using an instance type. To adjust VS resources:

1. Go to your Control Panel's **Virtual Servers** menu.
2. Click the label of the server you want to resize, to show its details screen.
3. Click the **Tools** button and select the **Edit Virtual Server** link.

   For virtual servers built by selecting resources manually:

   - Change CPU cores, CPU priority/units and RAM values.

   For virtual servers built using instance types:

   - Choose the new instance type for your virtual server. Click the instance type to select it. After that, the instance type you have chosen will be highlighted in green.

     Those instance types that have resources incompatible with the compute zone, on which the VS is built, will be greyed out. Greyed out instance types cannot be selected.

     You can only choose from those instance types that offer more disk size than the VS currently uses.

     After you select a new instance type you can use the extra disk size to create a new disk for the VS or make the existing VS disk larger.

You can also edit the *Time Zone* parameter for all Windows KVM and Xen virtual servers. After you edit the server's time zone, you need to stop and then start up the VS. Currently, the time zone is set at the Compute resource side only. Therefore, users need to set the target time zone inside a Windows VS manually. Setting correct time zone at the Compute resource side helps to keep correct time inside a VS after starting it if time synchronization is not completed for some reason.

4. Click the **Save** button.

Segregate ISO Virtual Server

If required, you can instruct OnApp to make sure a VS is never booted on the same Compute resource as another specific VS. This may be important if, for example, you have two name servers or a load balanced web server, and you need to keep VSs on separate physical servers.
To isolate one VS from another:

1. Go to your Control Panel's **Virtual Servers** menu.
2. Click the label of the virtual server you want to segregate.
3. On the screen that appears, click the **Tools** button, then click **Segregate Virtual Server**.
4. In the dialogue box that pops up, use the drop-down menu to choose a VS you want to keep away from.
5. Click the **Segregate Virtual server** button to finish.

Migrate ISO Virtual Server

OnApp allows cold migration of ISO virtual servers between compute resources that share common data stores (or data store zones). Cold migration means moving virtual servers that are shut down.

To migrate a virtual server:

1. Go to your Control Panel's **Virtual Servers** menu.
2. Click the label of the virtual server you want to migrate.
3. Click the **Tools** button and press the **Migrate Virtual Server** link.
4. In the window that appears, choose the target compute resource from the drop-down menu.
5. Click the **Start Migration** button.

After migration, the power status of your virtual server remains the same as before the migration.
OnApp administrators can control user access over virtual server migration. Using OnApp permissions, you can allow/forbid users to perform migration of all virtual servers, or their own servers only. This is handled via the Control Panel's **Roles and Sets** menu.

Delete ISO Virtual Server

Shut down the virtual server before destroying it. If you are deleting a VS that is running, the VS will be deleted after the time set in Timeout Before Shutting Down VSs configuration parameter.
To remove the virtual server from the cloud:

1. Go to your Control Panel's **Virtual Servers** menu.
2. On the screen that appears, you'll see the list of all virtual servers in the cloud. Click the label of the virtual server you want to delete.
3. On the virtual server's screen, click the **Tools** button, then select **Delete Virtual Server.**
4. Confirm by clicking the **Destroy** button.

> ⚠ IMPORTANT:
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> - You won't be able to restore a virtual server after deleting it.
> - Deleting a virtual server removes all data stored on that virtual server.

ISO Virtual Server Power Options

To manage a virtual server power options:

1. Go to your Control Panel's **Virtual Servers** menu.

2. Click the label of the required virtual server.
3. Click the **Tools** button on the VS's screen to expand the **Tools** menu.
4. The **Tools** menu enables you to perform the following power actions on VSs (the exact list shown depends on the VS status):

- *Reboot Virtual Server* - powers off and then restarts the VS.
- *Reboot in Recovery* - powers off and then restarts the VS in the recovery mode.
- *Suspend* - stops a VS, changes its status to suspended and disables all the other actions on VS, unless unsuspended.
- *Shut Down Virtual Server* – pops up a dialogue box, where you can either Shut Down VS (terminates the VS gracefully), or Power Off VS (terminates the VS forcefully).
- *Startup Virtual Server* - queues a start-up action for a VS that's currently powered off.

> ⚠ When you start up a VS, it might be implicitly cold migrated if the current compute resource does not have sufficient resources. For more information, refer to Virtual Server Provisioning.

- *Startup on Recovery* - starts the VS in recovery mode.
- *Boot from ISO* - boots the VS from an ISO. You can boot virtual servers from your own ISOs or the ISOs that are uploaded and made publicly available by other users. If you boot a VS from an ISO with the RAM requirement larger than the VS's RAM, the transaction will fail. Make sure that you have enabled the *Any power action on own virtual servers* and *Allow own virtual servers to boot from ISO* permissions for the user to have access to this feature.

> ⊘ As soon as you boot a VS from the installation ISO, OnApp may lose control of any components (networks, disks etc.) !!! The only available actions will be start and stop a VS. Be aware, that all the contents of the disk may be also deleted.

Change Owner of ISO Virtual Server

To change owner of ISO virtual server:

1. Go to your Control Panel's **Virtual Servers** menu.
2. Click the label of the required virtual server.
3. Click the **Tools** button on the VS's screen to expand the VS Tools menu.
4. Click the **Change Owner** link.
5. Choose a user to whom you want to pass ownership of the VS from the drop-down list.
6. Click the **Change Owner** button.

> ⚠ If you want to change an owner of the VS, which was built using an instance type, ensure that the new owner has permission to create VS using instance type and appropriate instance type in the billing plan. Otherwise you will not be able to change the ownership of this VS.