

# Additional Considerations for ISOs

Perform the following steps to enable building and booting VEs from the ISO for your cloud:

## Mount ISO locations

To rebuild a VE from ISO, it is required to mount and share the location where the ISOs are stored at CP with all the hypervisors. When the virtual servers are booted from the ISOs, the ISO is taken from the hypervisor server. The location is preconfigured at `onapp.yml` config file:

`iso_path_on_cp` - specifies the location where ISOs are stored on the Control Panel server. By default the location is `/data`. You can change it to any other suitable location. Make sure that this location is shared with the specified `iso_path_on_hv` location.

`iso_path_on_hv` - specifies the location where ISOs are located on the hypervisor servers. By default the location is `/data`. You can change it to any other suitable location with the `onappowner` and read/write access. Make sure that this location is mounted to the specified `iso_path_on_cp` location.

CloudBoot hypervisors mount the `/data` location automatically at boot to the `/onapp/tools/recovery` on HV.

ISOs can be hosted on a dedicated server at any desired location with an arbitrary name if you wish. In this case it is necessary to mount the ISOs' location on this server to the Control Panel `iso_path_on_cp` directory and all the hypervisors' `iso_path_on_hv` locations. This can be a backup server to avoid the excess usage of the Control Panel's space.

## Enable Permissions in Control Panel

Make sure to enable the following permissions for your Admin and other roles as appropriate:

- *Any action on ISOs* - the user can take any action on ISOs
- *Create a new ISO* - the user can create a new ISO
- *Destroy any ISO* - the user can delete any ISO (own, user, and public)
- *Destroy own ISO* - the user can only delete own ISO
- *Destroy user ISO* - the user can delete ISOs created by any user, but not public ISOs
- *Make any ISO public* - the user can make public any ISO available to all users
- *Make own ISO public* - the user can make public own ISOs only
- *Make user ISO public* - the user can make public ISOs created by any user
- *Create and manage own ISOs* - the user can create and edit/delete/view own ISOs
- *Manage all ISOs* - the user can manage own/user/public ISOs
- *Create and manage user ISOs* - the user can view/create/edit/delete ISOs created by any user
- *See all ISOs* - the user can view all ISOs in the cloud
- *See own ISOs* - the user can only view the ISOs created by themselves
- *See all public ISOs* - the user can view all public ISOs
- *See user ISOs* - the user can view the ISOs created by any user in the cloud
- *Update any ISO* - the user can edit any ISO in the cloud
- *Update own ISO* - the user can only edit own ISO
- *Update user ISO* - the user can edit the ISOs created by any user in the cloud

### More info:

[ISOs](#) - general information on ISOs in OnApp

[Boot from ISO](#) - the walk-through how you can boot a VE from ISO

[ISOs \(API Guide\)](#) - the list of available API requests