

Configure an internal Yum/dnf repository Rocky Linux 10

This document provides steps to copy a Rocky Linux CD/DVD to a directory and use that directory as a yum/dnf repository. However these steps are applicable to all RedHat based distributions.

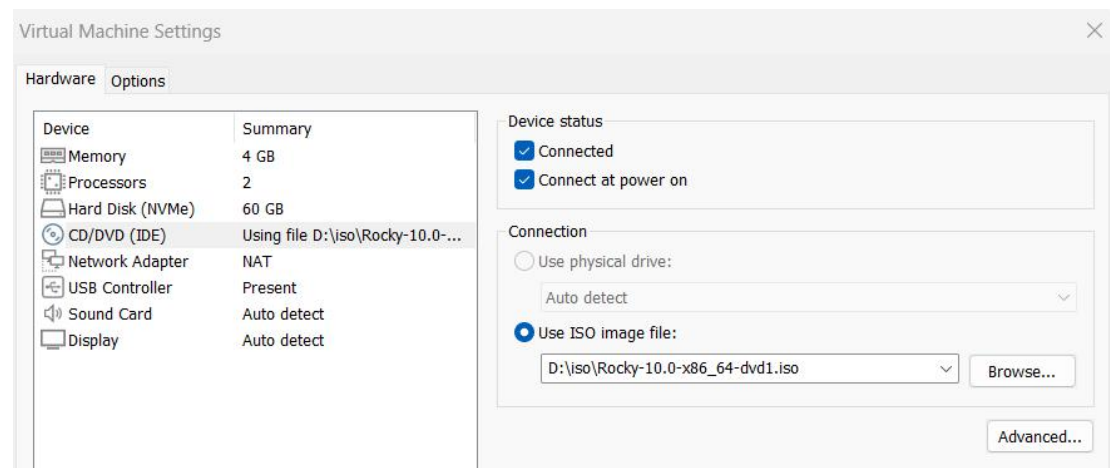
The Redhat based distribution installation CD/DVD comes with all packages. However for this you require to download the complete OS CD/DVD. The minimal installation DVD does not contain all packages.

You can download the complete Rocky Linux 10 DVD from the following link.

https://download.rockylinux.org/pub/rocky/10/isos/x86_64/Rocky-10.0-x86_64-dvd1.iso

If required copy the ISO file from the downloads folder to some other folder.

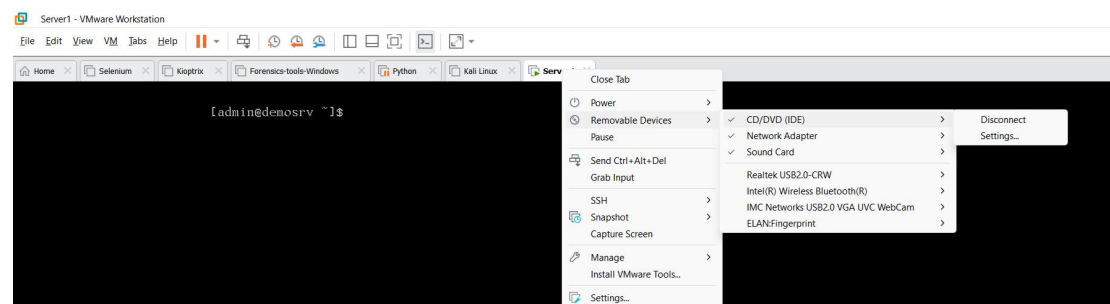
If it's a physical server then you will need to create a physical DVD using this ISO file. If it is a virtual machine then just attach the ISO file to the CD/DVD by going into the settings of the virtual machine as shown below.



Click OK.

You may get a message to unlock the DVD. Click yes.

Make sure the DVD is connected to the virtual machine.



If there is no tick mark in front of the CD/DVD option, then take the pointer on it and on the right side click connect option.

Mount the DVD

Create a directory.

```
sudo mkdir .mnt/cdrom
```

Mount the DVD into this directory.

```
mount -t auto /dev/cdrom /mnt/cdrom
```

Check if the DVD is properly mounted using command

```
ls /mnt/cdrom
```

```
[admin@demosrv ~]$  
[admin@demosrv ~]$ sudo mkdir /mnt/cdrom  
[sudo] password for admin:  
[admin@demosrv ~]$ sudo mount -t auto /dev/cdrom /mnt/cdrom  
mount: /mnt/cdrom: WARNING: source write-protected, mounted read-only.  
[admin@demosrv ~]$ ls  
[admin@demosrv ~]$ ls /mnt/cdrom  
AppStream boot EFI extra_files.json LICENSE RPM-GPG-KEY-Rocky-10  
BaseOS COMMUNITY-CHARTER EULA images media.repo RPM-GPG-KEY-Rocky-10-Testing  
[admin@demosrv ~]$ _
```

This mounting is temporary. After a restart this mounting will not be there. Thus the files on the dvd will not be available. Thus we need to copy the files on this DVD to a local directory.

For this you need to create one more directory.

```
sudo mkdir /mnt/repo
```

Now copy all files and directories on the DVD to the above directory. Following command will perform the task.

```
sudo cp -rv /mnt/cdrom/* /mnt/repo
```

Once the files are copied then configure the /mnt/repo directory as the repository

Configure the CD/DVD as yum/dnf repository.

The yum repository files are stored in the /etc/yum.repos.d directory. These files contain the configuration for each repository. The configuration involves the name of the repository, whether the repository is enables, location of the repository and how to access it (http,ftp,local filesystem etc.)

To add **/mnt/repo** as a repository you need to create a file inside this directory and put the required configuration inside this file. The extension of the file should be **.repo**.

To do this give following commands.

```
cd /etc/yum.repos.d
```

```
sudo vi internal.repo
```

Add following lines inside this file.

```
[internal-BaseOS]
name="Internal Repo - BaseOS"
baseurl=file:///mnt/repo/BaseOS/
enabled=1
gpgcheck=0

[internal-AppStream]
name="Internal Repo - AppStream"
baseurl=file:///mnt/repo/AppStream/
enabled=1
gpgcheck=0
```

Save the file.

The file will look like as below.

```
[Internal-BaseOS]
name="internal repo - BaseOS"
baseurl=file:///mnt/repo/BaseOS
enabled=1
gpgcheck=0

[Internal-AppStream]
name="Internal repo - AppStream"
baseurl=file:///mnt/repo/AppStream/
enabled=1
gpgcheck=0
```

Now give the following commands to verify the internal repo is working.

```
sudo yum update -y
```

```
sudo yum repolist
```

The output should displays repository by name Internal-BaseOS and Internal-AppStream.

```
[admin@demosrv yum.repos.d]$ sudo yum repolist
repo id      repo name
Internal-AppStream Internal repo - AppStream
Internal-BaseOS  internal repo - BaseOS
appstream     Rocky Linux 10 - AppStream
baseos        Rocky Linux 10 - BaseOS
epel          Extra Packages for Enterprise Linu
x_10 - x86_64
extras        Rocky Linux 10 - Extras
[admin@demosrv yum.repos.d]$ _
```

In case if the computer is not connected to Internet then remove all the .repo files from the /etc/yum.repos.d directory before creating the cdrom.repo file. Keep only cdrom.repo file in this directory. This is how now instead of Internet you can install packages from the cdrom using yum/dnf.

Unmount CD/DVD

As now the DVD is no longer required, you can unmount it using following command.

```
sudo umount /mnt/cdrom
```