

Configure CD/DVD as Yum/dnf repository Rocky Linux 10

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

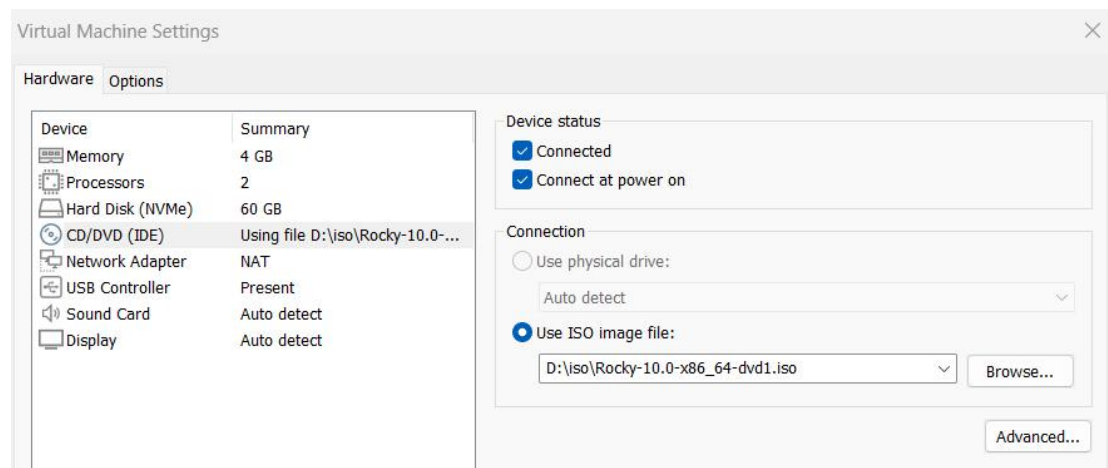
The Redhat based distribution installation CD/DVD comes with all packages. However for this you require to download the complete OS CD/DVD. The minimal installation DVD does not contain all packages.

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.

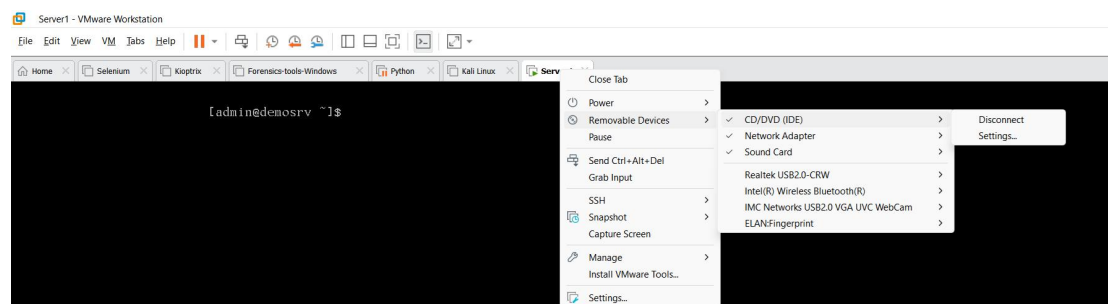
If it's a physical server then you will need to create a physical DVD using this ISO file. If it is a virtual machine then just attach the ISO file to the CD/DVD by going into the settings of the virtual machine as shown below.



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 and make the mounting permanent.

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@demorv ~]$  
[admin@demorv ~]$ sudo mkdir /mnt/cdrom  
[sudo] password for admin:  
[admin@demorv ~]$ sudo mount -t auto /dev/cdrom /mnt/cdrom  
mount: /mnt/cdrom: WARNING: source write-protected, mounted read-only.  
[admin@demorv ~]$ ls  
[admin@demorv ~]$ 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@demorv ~]$ _
```

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 make it permanent. So that even after a restart the DVD will automatically mount and all the files on the DVD are available.

For this you need to edit the /etc/fstab file and add an entry into it.

```
sudo vi /etc/fstab
```

Add entry as the last line in the following image.

```
/dev/cdrom /mnt/cdrom auto defaults 0 0
```

```
#  
# /etc/fstab  
# Created by anaconda on Fri Aug 8 06:39:06 2025  
#  
# Accessible filesystems, by reference, are maintained under '/dev/disk/'.  
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info.  
#  
# After editing this file, run 'systemctl daemon-reload' to update systemd  
# units generated from this file.  
#  
UUID=7bc3e44f-b9c8-4e34-9c06-309051f11d67 / xfs defaults 0 0  
UUID=794abff4-f947-42b1-a542-918f0fa78775 /boot xfs defaults 0 0  
UUID=33d8fb65-6515-4879-80cf-1ae7b3ee0a40 /home xfs defaults 0 0  
UUID=5f1a39e5-1529-4f8f-832d-d1d96407bf65 none swap defaults 0 0  
/dev/cdrom /mnt/cdrom auto defaults 0 0
```

Save the file.

To verify if the fstab entry is correct give following commands.

```
sudo systemctl daemon-reload
```

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

```
sudo mount /mnt/cdrom
```

```
ls /mnt/cdrom #If you see the files on DVD then fstab entry is correct.
```

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 enabled, location of the repository and how to access it (http,ftp,local filesystem etc.)

To add CD/DVD 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 cdrom.repo
```

Add following lines inside this file.

```
[cdrom]
name="Internal CDROM Repo"
baseurl=file:///mnt/cdrom/BaseOS/
enabled=1
gpgcheck=0
```

Save the file.

The file will look like as below.

```
[cdrom]
name="internal DVD repo"
baseurl=/mnt/cdrom/BaseOS
enabled=1
gpgcheck=0
~
~
```

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

```
sudo yum update -y
```

```
sudo yum repolist
```

The output should display repository by name cdrom

```
[admin@demosrv yum.repos.d]$ sudo yum repolist
[sudo] password for admin:
repo id                repo name
appstream              Rocky Linux 10 - AppStream
baseos                 Rocky Linux 10 - BaseOS
cdrom                  internal DVD repo
epel                   Extra Packages for Enterprise Linux 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.