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kylemuncie



Cadet

11-22-2023 07:37 PM | 33.9K Views

Create a local repo in RHEL 9

Jump to solution

I have been struggling for days to be able to create a local repo in RHEL 9. Could someone please show me the correct steps with the same format that is on the exam?

Tags:

- dnf
- dvd
- ISO
- local
- localrepo
- repository
- RHEL9
- YUM



1 Kudo

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1 Solution ✓



11-22-2023 08:26 PM | 33.9K Views



✓ Hello [@kylemuncie](#) !

Thanks for reaching out !

Due to the NDA - discussions about exam scenarios is out of bound for us.

However, generally speaking - To create a local repo in RHEL 9, you have to do the following steps in a nutshell :

a. Mount the RHEL 9 ISO file (download it from here : https://access.redhat.com/downloads/content/479/ver=/rhel---9/9.0/x86_64/product-software) to a directory

```
#mkdir -p /mnt/disc
```

```
# mount -o loop rhel-baseos-9.0-x86_64-dvd.iso /mnt/disc
```

b. You need to create a local repository file in “**/etc/yum.repos.d**” directory. This file will define the location of your local repository. Create a file with a name but with a **.repo** extension , eg. **rhel9.repo** with the correct file paths as per your system. The content of **/etc/yum.repos.d/rhel9.repo** will look something like this

```
# vi /etc/yum.repos.d/rhel9.repo
[BaseOS]
name=BaseOS Packages Red Hat Enterprise Linux 9
metadata_expire=-1
gpgcheck=1
enabled=1
baseurl=file:///mnt/disc/BaseOS/
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release

[AppStream]
name=AppStream Packages Red Hat Enterprise Linux 9
metadata_expire=-1
gpgcheck=1
enabled=1
baseurl=file:///mnt/disc/AppStream/
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release
```

c. Update the package index : `#dnf clean all`

`#dnf repolist`

d. Done ! If everything is ok and without any issues , you can start installing packages with

`#dnf install <package-name>`

`#dnf check-update`

Refer : https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/9/html-single/managing_softwa...

[View solution in original post](#)

Tags: dnf dvd ISO local localrepo repository RHEL9 YUM



6 Kudos

Reply


8 Replies



ADMIN

Chetan_Tiwary_

Community Manager

11-22-2023 08:26 PM |  33.9K Views



✓ Hello [@kylemuncie](#) !
Thanks for reaching out !

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```
#mkdir -p /mnt/disc
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name=BaseOS Packages Red Hat Enterprise Linux 9
metadata_expire=-1
gpgcheck=1
enabled=1
baseurl=file:///mnt/disc/BaseOS/
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release

[AppStream]
name=AppStream Packages Red Hat Enterprise Linux 9
metadata_expire=-1
gpgcheck=1
enabled=1
baseurl=file:///mnt/disc/AppStream/
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release
```

c. Update the package index : `#dnf clean all`

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`#dnf check-update`

Refer : https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/9/html-single/managing_software/index

Tags:

dnf

dvd

ISO

local

localrepo

repository

RHEL9

YUM



6 Kudos

Reply



RHCP Trevor



Starfighter

11-24-2023 05:08 AM | 33.8K Views

Chetan has provided another complete and easy to follow explanation. I'll just add one something, that is the equivalent of sprinkling a little salt on a gourmet meal:

\$ sudo yum list available

- this will simply list all of the packages in all repos

Trevor "Red Hat Evangelist" Chandler



1 Kudo


Reply



ADMIN

Chetan_Tiwary_

Community Manager

11-24-2023 01:20 PM |  33.8K Views

Thanks [@Trevor](#) for your addition.


and one can use **grep** to filter out packages available only in a specific repo eg.
epel repo :

yum list available | grep epel




0 Kudos

Reply



kmuncie

Cadet

11-27-2023 03:35 PM |  33.3K Views

Hello [@Chetan_Tiwary_](#) ,

I think my question is about part a now... I am currently booted in a VirtualBox instance of red hat 9.3. Inside of the vm, do i need to go into firefox and download that dvd.iso file or should it already be available?

I am trying these two commands and it is giving me a failure to setup loop device for it:

```
#mkdir -p /mnt/disc  
# mount -o loop rhel-baseos-9.3-x86_64-dvd.iso /mnt/disc
```

I am using locate to see if I have the dvd.iso but it returns nothing:
locate rhel-baseos-9.3-x86_64-dvd.iso

Thank you for the help!



1 Kudo

Reply




ADMIN

Chetan_Tiwary_


Community Manager

11-27-2023 04:31 PM

|

 33.3K Views

Yes, you have to download the ISO through a browser and then you can proceed with the next steps.



1 Kudo

Reply



Wasim_Raja

Moderator

11-29-2023 08:38 AM | 33.2K Views

As usual perfect explanation [@Chetan_Tiwary_](#)



1 Kudo

Reply



nathan_p



Cadet

06-01-2024 03:57 PM | 26.3K Views

Hey! Apologies for being late to the party.

Out of interest would you need to persistently mount the iso file, via fstab, for the repo to work after a reboot?

Thanks!



0 Kudos


Reply



spelchk



Mission Specialist

04-25-2024 03:45 PM |  28.9K Views

Question,

Correction, for a remote DVD repository, would you need to enter gpgkey? if so, would you still point to /etc/pki/rpm-gpg or would you point to http://x.x.x.x/dvd/RPM-GPG



1 Kudo

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