



How to create a local mirror of the latest update for Red Hat Enterprise Linux 8 and 9 without using Satellite server?

👍 SOLUTION VERIFIED - Updated January 30 2024 at 7:04 AM - English ▾

Environment

- Red Hat Enterprise Linux 9
- Red Hat Enterprise Linux 8
- reposync

Issue

- What is reposync utility and how to use it?
- How to create a local mirror of the latest update for Red Hat Enterprise Linux 9 or 8 without using Satellite server?
- Need to download all packages/rpms from specific channel locally.
- How to make a local repository?

Resolution

For **RHEL 5, 6 and 7** systems refer [How to create a local mirror of the latest update for Red Hat Enterprise Linux 5, 6 and 7 without using Satellite server?](#)

Syncing the latest content

- This will sync the latest content available to your system. If you're system is release locked via `subscription-manager release`, or by `/etc/yum/vars/releasever`, you will only get the latest content from the releasever specified.
- Run reposync command as below to download all packages from the mentioned repoid :

```
# reposync -p <download-path> --download-metadata --repoid=<the_repo>
```

For example:

```
# reposync -p /var/www/html --download-metadata --repoid=rhel-8-for-x86_64-appstream-rpms  
# reposync -p /var/www/html --download-metadata --repoid=rhel-8-for-x86_64-baseos-rpms
```

- Clients can be configured to access this repository with [How to create a repo file](#)

Important Note:

- createrepo is not required for RHEL 8 or 9. reposync will download everything including the repodata. Any createrepo_c version prior to 0.16.2-1.el8 is not capable of handling module information and hence tends to remove the module data if run on the RHEL 8 system. If you have the older version and have run createrepo, check How to add the modules information after cloning the RHEL8 repository.
- Ensure to apply the option --download-metadata to pull the metadata.

To sync a specific minor release

- Proceed Only if systems are required to be set on specific minor release as 8.4 or 8.6 .
- For systems registered to the CDN or Red Hat Satellite you must release lock the system with subscription manager

```
# subscription-manager release --set=8.4 && rm -rf /var/cache/dnf
```

- At this point your system will only have access to content released for RHEL 8.0- 8.4. If you are syncing multiple minor releases, you must keep these separate from each other. For example to sync both 8.4 and 8.5:

```
# subscription-manager release --set=8.4 && rm -rf /var/cache/dnf
# reposync -p /var/www/html/8.4 --download-metadata --repoid=<repo id>
# subscription-manager release --set=8.5 && rm -rf /var/cache/dnf
# reposync -p /var/www/html/8.5 --download-metadata --repoid=<repo id>
```

- Clients can be configured to access this repository with How to create a repo file

Notes:

- The -n option can be used to download only the newest version of packages instead of every version of every package.
- The --delete option can be used to remove any packages that are not part of the current sync. (Such as older packages when -n downloads a new version)
- You will need a system for each major release you are syncing. RHEL 8 can not access RHEL 9 content and vice versa.
- On RHEL 8 , ensure you have yum-utils-4.0.8-3.el8.noarch or higher installed so reposync correctly downloads all the packages.
 - RHSA-2019:3583
- reposync utility can only mirror repositories which the system is entitled to.

- If there are any issues after following above steps, open a Red Hat Technical Support Case and share below details.

1. Output of the following command :

```
# tree /directory_path_of_the_repository
```

2. Generate and provide SOS report from the Repo Server and Client.

Root Cause

Red Hat provides a utility called `reposync` which can be used to download the packages from the CDN. In order to download all packages from a specific channel, the system should be subscribed to that channel. If the system is not subscribed to the required channel then `reposync` will not be able to download and sync those packages on local system.

Product(s)Red Hat Enterprise Linux

Componentdnf

CategoryConfigure

Tagsrepositoryrhel_8rhel_9yum

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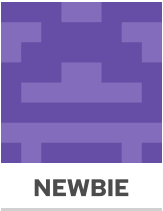
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David Cashion

Aug 23, 2023 9:02 AM

In the reposync command, it seems like there are some extra characters in the repo config parameter on RHEL 8.
Instead of:

```
--repo-id=
```

Should it be:

```
--repo=
```

[↩ Reply](#)



277 Points

Pradeep Jagtap • RHCSA • RHCOE

Aug 23, 2023 3:14 PM

Apologies for the typo, and thanks for pointing it out. The correct option is --repoid

The corrective action is taken.

[↩ Reply](#)



NEWBIE

19 Points

Riccardo Balestieri

Oct 4, 2023 7:07 PM

on System B , I created a local.repo as described in your example, but dnf repolist -v does not recognize the .repo as valid

```
Warning: failed loading '/etc/yum.repos.d/local.repo', skipping.  
No module defaults found  
No repositories available
```

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NEWBIE

17 Points

David Cashion

Oct 9, 2023 11:52 PM

Make sure the baseurl path uses the file option with three /// if using an NFS-based repo location as HTTP isn't required, just an option:

```
baseurl = file:///data/rhel/8/rhel-8-for-x86_64-baseos-rpms
```

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Nguyễn Diệp

Oct 5, 2023 12:09 PM

Do we need to run sync command everyweek/month if we already have a mirror of repo on local system ?

Does Redhat update repo weekly/monthly ?

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NEWBIE

17 Points

David Cashion

Oct 9, 2023 8:44 PM

To find when packages are updated, please sign up for Errata notifications here: <https://www.redhat.com/wapps/ugc/protected/notif.html>

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Nguyễn Diệp

Oct 5, 2023 12:09 PM

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129 Points

Eddie Rowe

Jan 31, 2024 5:01 AM

Reposync command does not seem to work for RHEL 9.3. Is there another document for RHEL 9.3 ? I generally use the -- formats since they are self documenting but -- download-path gives the same error so I went with the basic example in this article. The man pages indicate that these options should be valid so I am stumped why I get the syntax error?

reposync -p /var/www/html --download-metadata --repoid=rhel-9-for-x86_64-baseos-rpms

Updating Subscription Management repositories. usage: dnf reposync [-c [config file]] [-q] [-v] [--version] [--installroot [path]] [--nodocs] [--noplugins] [--enableplugin [plugin]] [--disableplugin [plugin]] [--releasever RELEASEVER] [--setopt SETOPTS] [--skip-broken] [-h] [--allowerasing] [-b | --nobest] [-C] [-R [minutes]] [-d [debug level]] [--debugsolver] [--showduplicates] [-e ERRORLEVEL] [--obsoletes] [--rpmverbosity [debug level name]] [-y] [--assumeno] [--enablerepo [repo]] [--disablerepo [repo] | --repo [repo]] [--enable | --disable] [-x [package]] [--disableexcludes [repo]] [--repofrompath [repo,path]] [--noautoremove] [--nogpgcheck] [--color COLOR] [--refresh] [-4] [-6] [--destdir DESTDIR] [--downloadonly] [--comment COMMENT] [--bugfix] [--enhancement] [--newpackage] [--security] [--advisory ADVISORY] [--bz BUGZILLA] [--cve CVES] [--sec-severity {Critical,Important,Moderate,Low}] [--forcearch ARCH] [-a [arch]] [--delete] [--download-metadata] [-g] [-m] [--metadata-path METADATA_PATH] [-n] [--norepopath] [-p DOWNLOAD_PATH] [--remote-time] [--source] [-u] dnf reposync: error: unrecognized arguments: -p /var/www/html

↩ Reply

Jan 31, 2024 7:20 AM



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1394 Points

John Castranio • RHCSA • RHCE

Seems it doesn't like the order of that command. I see the same problem until I move the -p to the end.

```
reposync --download-metadata --repoid=rhel-9-for-x86_64-baseos-rpms -p /var/www/html
```

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129 Points

Eddie Rowe

Feb 1, 2024 1:28 AM

I cannot find it but there is some type of hidden character causing this issue. I copy/pasted the command into NotePad++ and did not see anything (still don't). I turned on the option in Putty to save everything to a log file and still do not see anything. But if I backspace over " -p /var/www/html " and then type those options it just works as advertised!

↩ Reply



NEWBIE

17 Points

Fede Rave

Apr 12, 2024 2:57 PM

Hello, i had the same problem and i solved by adding a / after the last dir. Here's your version:

```
-p /var/www/html/
```

↩ Reply



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MEMBER

30 Points

Vorwerk CTS

Feb 1, 2024 2:29 PM

Hello Team,

When we try to sync the latest repository for rhel-8-for-x86_64-baseos-rpms and rhel-8-for-x86_64-appstream-rpms all the packages are getting skipped which are available in the local repository but not syncing the latest packages on local repository. How can we sync them? It worked until last month for RHEL 8.8.

↩ Reply



John Castranio • RHCSA • RHCE

Feb 1, 2024 8:59 PM

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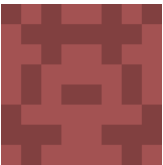
//

not syncing the latest packages on local repository

If you can see them with `yum list <package>`, then reposync should be grabbing them. You should be using `--download-metadata` as well so you get the new repodata. Once downloaded the clients will need to clear their cache so they pull the new repodata. We might need a case to check all the steps if thats easy for you.

What package do you see in `yum list` that doesn't get downloaded with `reposync` ?

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NEWBIE

5 Points

Ivan Vavrik

Is it possible to use reposync in RHEL9 container to download RHEL9 packages if the container runs on RHEL8 vm? Would there be some issue?

[↩ Reply](#)

Mar 20, 2024 9:28 PM



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1394 Points

John Castranio • [RHCSA](#) • [RHCE](#)

That should be fine. The RHEL 9 container would identify to subscription-manager and access the RHEL 9 content.

[↩ Reply](#)

Mar 21, 2024 6:27 PM



NEWBIE

7 Points

Mita Mitic

Is it possible to create local repo for ppc64le RHEL, on a x86_64 VM?

[↩ Reply](#)

Apr 12, 2024 1:02 PM



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John Castranio • [RHCSA](#) • [RHCE](#)

No. The system identifies as RHEL x86_64 and will only have access to 64 bit repositories. You would need a ppc64le system in order to access and sync those repos.

Apr 12, 2024 8:02 PM

1394 Points

↩ Reply



Nishant Mistry

Jun 7, 2024 11:08 AM


How to resync a repository when new packages are released by Red Hat

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