

SOP to Install YUM repository locally

STEP 1 : Setup YUM repository server

1. Install Required Package

```
[root@Sipl-204 ~]# sudo yum install -y createrepo httpd
Last metadata expiration check: 0:34:18 ago on Sat 05 Apr 2025 10:16:36 AM IST.
Dependencies resolved.
```

2. Create Repository Directory

```
[root@Sipl-204 ~]# sudo mkdir -p /var/www/html/repo_
```

3. Install Required Tools on the Repo Server

```
[root@Sipl-204 ~]# sudo yum install -y rpm-build rpmdevtools
Last metadata expiration check: 0:38:13 ago on Sat 05 Apr 2025 10:16:36 AM IST.
Package rpm-build-4.16.1.3-34.el9.x86_64 is already installed.
Dependencies resolved.
```

4. Set Up RPM Build Environment

```
[root@Sipl-204 ~]# rpmdev-setuptree
[root@Sipl-204 ~]# _
```

5. Create a SPEC File

```
[root@Sipl-204 ~]# vi ~/rpmbuild/SPECS/myscript.spec_
```

add the following content (modify as needed):

```
Name: myscript
Version: 1.0
Release: 1%{?dist}
Summary: My Custom Shell Script
License: GPL
Source0: myscript.sh
BuildArch: noarch
Requires: bash

%description
This package installs my custom shell script.

%prep

%build

%install
mkdir -p %{buildroot}/usr/local/bin
install -m 755 %{SOURCE0} %{buildroot}/usr/local/bin/myscript

%files
/usr/local/bin/myscript
```

6. Copy Your Shell Script

```
[root@Sipl-204 SOURCES]# cp /home/kaustubhj/ss/myscript.sh ~/rpmbuild/SOURCES/myscript.sh_
```

7. Build the RPM

```
[root@Sipl-204 SOURCES]# rpmbuild -bb ~/rpmbuild/SPECS/myscript.spec
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.tib0cv
+ umask 022
+ cd /root/rpmbuild/BUILD
+ RPM_EC=0
++ jobs -p
+ exit 0
```

This will create an RPM package under ~/rpmbuild/RPMS/noarch/.

STEP 2 : Add the RPM to Your Repository

1. Copy the RPM to your repository directory:

```
[root@Sipl-204 SOURCES]# sudo cp ~/rpmbuild/RPMS/noarch/myscript-1.0-1.el9.noarch.rpm /var/www/html/repo/_
```

2. Update repository metadata:

```
[root@Sipl-204 SOURCES]# sudo createrepo --update /var/www/html/repo/
Directory walk started
Directory walk done - 1 packages
Loaded information about 0 packages
Temporary output repo path: /var/www/html/repo/.repodata/
Preparing sqlite DBs
Pool started (with 5 workers)
Pool finished
[root@Sipl-204 SOURCES]# _
```

3. Ensure correct permissions:

```
[root@Sipl-204 SOURCES]# sudo chmod -R 755 /var/www/html/repo
[root@Sipl-204 SOURCES]# sudo chown -R apache:apache /var/www/html/repo/
[root@Sipl-204 SOURCES]# _
```

STEP 3. Install the script via YUM on client machines

1. check '/etc/yum.repos.d/global.repo' and ensure It has the correct baseurl:(client)

```
[global-repo]
name=Global Repository
baseurl=http://your-repo-server/repo/
enabled=1
gpgcheck=1
~
~
~
```

2. then clear yum cache on server side (server)

```
[root@Sipl-204 SOURCES]# yum clean all
24 files removed
[root@Sipl-204 SOURCES]# yum makecache_
```

3. Check for Selinux or Firewall issues (server)

```
[root@Sipl-204 ~]# sudo firewall-cmd --add-service=http --permanent
success
[root@Sipl-204 ~]# sudo firewall-cmd --add-service=https --permanent
success
[root@Sipl-204 ~]# sudo firewall-cmd --reload
success
[root@Sipl-204 ~]# _
```

STEP 4: install the script via yum on client machine (client)

```
[root@Sipl-204 yum.repos.d]# yum install myscript
Global Repository                               2.9 MB/s | 3.0 kB    00:00
Dependencies resolved.
=====
Package                Architecture      Version           Repository         Size
=====
Installing:
myscript                noarch            1.0-1.el9         global-repo        6.7 k
Transaction Summary
=====
Install 1 Package

Total size: 6.7 k
Installed size: 274
Is this ok [y/N]: y
```