

YUM Repository Creation on HTTPD Web Server.

Setting up yum repos on RHEL using httpd. We will be setting up httpd and yum repo on top of it. So that we can access yum over http.

yum Repository Creation on using httpd Web Server.

Installing prerequisites.

To setup a repository we need to install createrepo package.

```
yum install createrepo.
```

Create directories to store the repo.

Below are the directories to be created, to store the rpms in.

```
mkdir -p /export/custom-repo/yum-channels/custom-repo-channel-app/SRPMS
mkdir -p /export/custom-repo/yum-channels/custom-repo-channel-app/x86_64
mkdir -p /export/custom-repo/yum-channels/custom-repo-channel-sys/SRPMS
mkdir -p /export/custom-repo/yum-channels/custom-repo-channel-sys/x86_64
```

Create subdirectories as below.

```
[root@repo-server ~]# ls -l /export/custom-repo/
total 12
drwxrwxr-x 2 repomgr repomgr 4096 Oct 14 09:06 pkg
drwxr-xr-x 2 root root 4096 Oct 13 16:18 repodata
drwxr-xr-x 5 repomgr repomgr 4096 Oct 14 11:09 yum-channels
[root@repo-server ~]# ls -l /export/custom-repo/yum-channels/
total 20
drwxr-xr-x 4 repomgr repomgr 4096 Oct 14 11:09 custom-repo-channel-app
drwxr-xr-x 4 repomgr repomgr 4096 Oct 14 10:53 custom-repo-channel-sys
-rw-r--r-- 1 repomgr repomgr 150 Oct 14 11:00 Makefile
-rw-r--r-- 1 repomgr repomgr 50 Oct 14 11:01 README
[root@repo-server ~]# ls -l /export/custom-repo/yum-channels/custom-repo-channel-app/
total 12
-rw-r--r-- 1 repomgr repomgr 157 Oct 14 10:53 Makefile
drwxr-xr-x 3 repomgr repomgr 4096 Oct 14 11:09 SRPMS
drwxr-xr-x 3 repomgr repomgr 4096 Oct 14 11:00 x86_64
[root@repo-server ~]# ls -l /export/custom-repo/yum-channels/custom-repo-channel-sys/
total 12
-rw-r--r-- 1 repomgr repomgr 157 Oct 14 10:53 Makefile
drwxr-xr-x 3 repomgr repomgr 4096 Oct 14 11:00 SRPMS
drwxr-xr-x 3 repomgr repomgr 4096 Oct 14 11:00 x86_64
[root@repo-server ~]#
```

Creating Repository.

```
createrepo /export/custom-repo/yum-channels/custom-repo-channel-app/SRPMS
createrepo /export/custom-repo/yum-channels/custom-repo-channel-app/x86_64
createrepo /export/custom-repo/yum-channels/custom-repo-channel-sys/SRPMS
createrepo /export/custom-repo/yum-channels/custom-repo-channel-sys/x86_64
```

Here is how the directory looks after createrepo

```
[root@repo-server ~]# tree /export/custom-repo/yum-channels/custom-repo-channel-sys/
/export/custom-repo/yum-channels/custom-repo-channel-sys/
  Makefile
  SRPMS
  repodata
    401dc19bda88c82c40347e95f5b9835888189c03834cc93-filelists.xml.gz
    6bf9672d0862e8ef8b8ff5978e6589d87944c88259cb670-other.xml.gz
    77a287c136f4ff47df50a525f06ddf41a3fef39908d61a7-other.sqlite.bz2
    8596812757300b1d87f2d8ee28c11009e5980cb5cd4be14-primary.sqlite.bz2
    dabe2ce5481d23de1f4f6c9e0de2ce8123adeefa0dd08b9-primary.xml.gz
    f8606d9f21d61a8bf40502becb78ba5fea7d0f1cd06a0b2-filelists.sqlite.bz2
    repomd.xml
  x86_64
    repodata
      401dc19bda88c82c40347e95f5b9835888189c03834cc93-filelists.xml.gz
      6bf9672d0862e8ef8b8ff5978e6589d87944c88259cb670-other.xml.gz
      77a287c136f4ff47df50a525f06ddf41a3fef39908d61a7-other.sqlite.bz2
      8596812757300b1d87f2d8ee28c11009e5980cb5cd4be14-primary.sqlite.bz2
      dabe2ce5481d23de1f4f6c9e0de2ce8123adeefa0dd08b9-primary.xml.gz
      f8606d9f21d61a8bf40502becb78ba5fea7d0f1cd06a0b2-filelists.sqlite.bz2
      repomd.xml
```

4 directories, 15 files

Installing and configuring httpd to host the yum repository.

Setting up httpd web server, and configure it to host the repos.

Install httpd

```
yum install httpd
```

Configuration.

Create a file in /etc/httpd/conf.d/ as custom-repo-channel-app.conf.

```
Alias /customreepochannelapp "/export/custom-repo/yum-channels/custom-repo-channel-app"
<Directory "/export/custom-repo/yum-channels/custom-repo-channel-app">
  Options +Indexes
  Allow from all
</Directory>
```

httpd configuration for the server for all the repos.

```

[root@repo-server ~]# cat /etc/httpd/conf.d/
custom-repo-channel-app.conf custom-repo-channel-sys.conf README welcome.conf
[root@repo-server ~]# cat /etc/httpd/conf.d/custom-repo-channel-*
Alias /customreepochannelapp "/export/custom-repo/yum-channels/custom-repo-channel-app"
<Directory "/export/custom-repo/yum-channels/custom-repo-channel-app">
    Options +Indexes
    Allow from all
</Directory>

Alias /customreepochannelsys "/export/custom-repo/yum-channels/custom-repo-channel-sys"
<Directory "/export/custom-repo/yum-channels/custom-repo-channel-sys">
    Options +Indexes
    Allow from all
</Directory>

[root@repo-server ~]#

```

Restart httpd server.

```
service httpd restart
```

Configuring yum.

Create a file `custom-channel.repo` in `/etc/yum.repos.d/`.

For we are using the below to configure the server. If this repo is inside the network which does not need a proxy then, make sure to use `proxy=_none_` as we do NOT want the repo to use it.

```

[custom-repo-channel-appsrc-repo]
name=Custom Channel App Source Repository
baseurl=http://repo-server.myorg.com/customreepochannelapp/SRPMS
gpgcheck=0
enabled=1
proxy=_none_

```

Complete list of rpms configured as below.

```

[root@repo-server ~]# cat /etc/yum.repos.d/custom-channel.repo
[custom-repo-channel-appsrc-repo]
name=Custom Channel App Source Repository
baseurl=http://repo-server.myorg.com/customreepochannelapp/SRPMS
gpgcheck=0
enabled=1
proxy=_none_

[custom-repo-channel-app-repo]
name=Custom Channel App Repository
baseurl=http://repo-server.myorg.com/customreepochannelapp/x86_64
gpgcheck=0
enabled=1
proxy=_none_

[custom-repo-channel-syssrc-repo]
name=Custom Channel System Source Repository

```

```
baseurl=http://repo-server.myorg.com/customreepochannelsys/SRPMS
gpgcheck=0
enabled=1
proxy=_none_
```

```
[custom-repo-channel-sys-repo]
name=Custom Channel System Repository
baseurl=http://repo-server.myorg.com/customreepochannelsys/x86_64
gpgcheck=0
enabled=1
proxy=_none_
[root@repo-server ~]#
```

Here is the output for repolist.

```
[root@repo-server ~]# yum repolist
Loaded plugins: product-id, rhnplugin, security, subscription-manager
repo id                repo name                status
custom-repo-channel-app-repo      Custom Channel App Repository      112
custom-repo-channel-appsrc-repo    Custom Channel App Source Repository  12
custom-repo-channel-sys-repo      Custom Channel System Repository    144
custom-repo-channel-syssrc-repo    Custom Channel System Source Repository  44
rhel-6-server-rpms                Red Hat Enterprise Linux 6 Server (RPMs) 16,167
rhel-server-dts-6-rpms             Red Hat Developer Toolset RPMs for Red Ha  84
rhel-server-dts2-6-rpms           Red Hat Developer Toolset 2 RPMs for Red  469
repolist: xx
[root@repo-server ~]#
```