

Yum Repository Setup: Example to show how to setup a local yum repository server which holds Fedora updates.

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=====
Use one of the rsync mirrors listed here: <http://mirrors.fedoraproject.org/>

Setup locations for your updated packages:

```
mkdir -p /data/kick/f12/i386/Fedora
mkdir -p /data/kick/f12/i386/Everything
mkdir -p /data/kick/f12/i386/updates
mkdir -p /data/kick/f12/i386/rpmsfusion/free/os
mkdir -p /data/kick/f12/i386/rpmsfusion/free/updates
mkdir -p /data/kick/f12/i386/rpmsfusion/nonfree/os
mkdir -p /data/kick/f12/i386/rpmsfusion/nonfree/updates
```

Rsync the remote updates to your local server's updates directory:
Examples (as a regular user):

Note: These you only need to rsync once to get the original distributions:

```
rsync -av --delete --exclude debug
rsync://pick.a.server.mirror.from.above.link.com/fedora/linux/Fedora/12/i386/os/ /
data/kick/f12/i386/Fedora
rsync -av --delete --exclude debug
rsync://pick.a.server.mirror.from.above.link.com/fedora/linux/Everything/12/i386/o
s/ /data/kick/f12/i386/Everything
rsync -av --delete --exclude debug
rsync://rpm.livna.org/rpmsfusion/free/fedora/releases/
$version/Everything/i386/os /data/kick/f12/i386/rpmsfusion/free
rsync -av --delete --exclude debug
rsync://rpm.livna.org/rpmsfusion/nonfree/fedora/releases/
$version/Everything/i386/os /data/kick/f12/i386/rpmsfusion/nonfree
```

Note: These you will need to rsync each time before you do an update:

```
rsync -av --delete --exclude debug
rsync://pick.a.server.mirror.from.above.link.com/fedora/linux/updates/12/i386/
/data/kick/f12/i386/updates
rsync -av --delete --exclude debug
rsync://download1.rpmsfusion.org/rpmsfusion/free/fedora/updates/$version/i386/
/data/kick/f12/i386/rpmsfusion/free/updates
rsync -av --delete --exclude debug
rsync://download1.rpmsfusion.org/rpmsfusion/nonfree/fedora/updates/$version/i386/
/data/kick/f12/i386/rpmsfusion/nonfree/updates
```

Enable Apache web server:

```
chkconfig httpd on
service httpd start
Enable http via the firewall configuration tool
System - Administration - Firewall
click the check box next to WWW (HTTP)
click Apply
File - Quit
```

Setup yum directory web link:

```
cd /var/www/html
ln -s /data/kick/f12
Setup index.html file, if you want:
vi index.html
index.html contents:
<html>
```

```
<A HREF="f12">f12</A>
</html>
```

If browsing <http://localhost/f12> fails, then see SELINUX section below.

```
Backup old client yum files:
cp -rp /etc/yum.repos.d /root
```

```
Install rpmfusion repos and run update to update the rpmfusion repos:
rpm -Uvh http://download1.rpmfusion.org/free/fedora/rpmfusion-free-release-
stable.noarch.rpm http://download1.rpmfusion.org/nonfree/fedora/rpmfusion-nonfree-
release-stable.noarch.rpm
yum update
```

```
See enabled repo files:
cd /etc/yum.repos.d
grep enabled=1 *
fedora.repo:enabled=1
fedora-updates.repo:enabled=1
rpmfusion-free.repo:enabled=1
rpmfusion-free-updates.repo:enabled=1
rpmfusion-nonfree.repo:enabled=1
rpmfusion-nonfree-updates.repo:enabled=1
```

Update your /etc/yum.repos.d directory files to use the local repositories:
Comment mirrorlist line in section with "enabled=1" and add line to point to local repository:

Examples, where "yum1" and "yum2" are the host aliases of your local yum servers (two for redundancy):
cd /etc/yum.repos.d

```
vi fedora.repo
#mirrorlist=https://mirrors.fedoraproject.org/metalink?repo=fedora-
$releasever&arch=$basearch
baseurl=http://yum1/f$releasever/i386/Everything
        http://yum2/f$releasever/i386/Everything
```

```
vi fedora-updates.repo
#mirrorlist=https://mirrors.fedoraproject.org/metalink?repo=updates-released-
f$releasever&arch=$basearch
baseurl=http://yum1/f$releasever/i386/updates/
        http://yum2/f$releasever/i386/updates/
```

```
vi rpmfusion-free.repo
#mirrorlist=http://mirrors.rpmfusion.org/mirrorlist?repo=free-fedora-
$releasever&arch=$basearch
baseurl=http://yum1/f$releasever/i386/rpmfusion/free/os/
        http://yum2/f$releasever/i386/rpmfusion/free/os/
```

```
vi rpmfusion-free-updates.repo
#mirrorlist=http://mirrors.rpmfusion.org/mirrorlist?repo=free-fedora-updates-
released-$releasever&arch=$basearch
baseurl=http://yum1/f$releasever/i386/rpmfusion/free/updates/
        http://yum2/f$releasever/i386/rpmfusion/free/updates/
```

```
vi rpmfusion-nonfree.repo
#mirrorlist=http://mirrors.rpmfusion.org/mirrorlist?repo=nonfree-fedora-
$releasever&arch=$basearch
```

```
baseurl=http://yum1/f$releasever/i386/rpmsfusion/nonfree/os/  
http://yum2/f$releasever/i386/rpmsfusion/nonfree/os/
```

```
vi rpmsfusion-nonfree-updates.repo  
#mirrorlist=http://mirrors.rpmsfusion.org/mirrorlist?repo=nonfree-fedora-updates-  
released-$releasever&arch=$basearch  
baseurl=http://yum1/f$releasever/i386/rpmsfusion/nonfree/updates/  
http://yum2/f$releasever/i386/rpmsfusion/nonfree/updates/
```

```
Create default directory copy of yum.repos.d:  
mkdir -p /data/kick/defaults/f12/etc  
cp -rp /etc/yum.repos.d /data/kick/defaults/f12/etc/
```

```
Copy default yum.repos.d directory to node after backing up old /etc/yum.repos.d:  
cd /data/kick/defaults/f12/etc  
ssh server  
cp -rp /etc/yum.repos.d /root  
exit  
rsync -av yum.repos.d server:/etc
```

```
Run yum update to get the updates locally  
yum clean all  
yum update
```

Example full repository directory layout for local repository server:

```
-----  
/data/kick/f12/i386/Everything           all available Fedora distribution  
packages for Fedora  
/data/kick/f12/i386/Fedora             Fedora DVD contents, including  
isolinux directory  
/data/kick/f12/i386/updates           all Fedora distribution updated  
packages created after the Fedora release  
/data/kick/f12/i386/rpmsfusion/free/os  rpmsfusion free release packages  
/data/kick/f12/i386/rpmsfusion/free/updates  rpmsfusion free updates packages  
/data/kick/f12/i386/rpmsfusion/nonfree/os  rpmsfusion nonfree release packages  
/data/kick/f12/i386/rpmsfusion/nonfree/updates  rpmsfusion nonfree updates packages
```

SELINUX configuration (Does not appear needed with Fedora 12):

```
-----  
If browsing http://localhost/f12 fails, then try this:  
chcon -R --reference=/var/www/html /data/kick/f12  
If browsing http://localhost/f12 still fails, then try this:  
chcon -R --reference=/var/www/html /data  
If browsing http://localhost/f12 still fails, then try this:  
umount /data  
chcon -R --reference=/var/www/html /data  
mount /data
```