

BOSS Mirror Creation and Synchronization

This document gives the procedure to create BOSS mirror and Synchronizing it with the main BOSS repository residing at chennai.

System Requirements:

- Minimum 170GB Hard disk
- High speed internet
- BOSS GNU/Linux

Steps to create the mirror

1. Boot into BOSS GNU/Linux

2. Open Applications → Systemtools → Administration → Synaptic and install “debmirror” package from BOSS repository.

3. Open terminal and run the following

a. `mkdir /opt/boss`

b. `debmirror -a i386 -d anokha -s main,contrib,non-free,main/debian-installer -method=http -h packages.bosslinux.in -root=boss -ignore-release-gpg --diff=use -progress /opt/boss`

4. The above command will download i386 architecture of anokha

repository from our official link <http://packages.bosslinux.in/boss> . It downloads all the main , contrib , nonfree and debian-installer along with its sources to the path “/opt/boss” .

Now the downloaded repository has to be served using a webserver. So, lets install and configure apache to serve the repository.

Steps to install and configure apache

1. Open Administration → Synaptic and install “apache2” package from BOSS repository.
 2. Make a link of the directory containing the repository at /var/www. Run the following command in the terminal to create the link
 - `ln -s /opt/boss /var/www`
 3. Move into the apache directory by running
 - `cd /etc/apache2/sites-available`
 4. In the terminal, run `vi boss.conf`, it creates and opens an empty file. Copy the following content in this file

```
<VirtualHost *:80>
ServerName yourservername
ServerAdmin admin@cdac.in
DocumentRoot /var/www/boss
ErrorLog /var/log/apache2/packages/error.log
CustomLog /var/log/apache2/packages/access_log common
</VirtualHost>
```

save the file and exit.
 5. Create the packages folder by running `mkdir /var/log/apache2/packages`.
 6. Then run
 - `a2ensite boss.conf`
 - `/etc/init.d/apache2 restart`
- Now, the repository is ready for access

Steps to synchronize the repository

1. Open the text editor

Applications → Accessories → gedit Text Editor

2. Copy the following content in the file

```
#!/bin/bash
### Initialize Variables ###
arch=i386
section="main,contrib,non-free,main/debian-installer"
dist=anokha
server=packages.bosslinux.in
root=boss
method=http
OUTPATH=/opt/boss
DEBMLOG=/var/log/debmirror.log
# Record the current date/time
date 2>&1 | tee -a $DEBMLOG
echo -e "\n*** Mirroring BOSS $DIST ***\n" 2>&1 | tee -a $DEBMLOGdebmirror
-a $arch \
-s $section \
-h $server \
-d $dist \
-r $root \
--method=$method \
--source \
--ignore-release-gpg \
--progress \
$OUTPATH \
2>&1 | tee -a $DEBMLOG
# Record the current date/time
```

```
date 2>&1 | tee -a $DEBMLLOG
```

and save this file at /opt by naming it as repo-mirroring.sh. Give executable permissions to this file by running the following in the terminal

```
chmod 777 repo-mirroring.sh
```

This file has to be made to run weekly once. So, copy and paste this file to /etc/cron.weekly folder.

Add the following entry in the crontab

```
35 18 * * 4 root bash /etc/cron.weekly/bossrepomirror
```

This will sync with BOSS repository every wednesday at 6:35 PM.