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How To Create Debian/Ubuntu With apt-mirror	A Local Mirror	How To Create A L <u>mirror     1 Preliminary </u>	_ocal Debian/Ub	untu Mirror With apt-	
Version 1.0 Author: Falko Timme		<ul> <li><u>2 Install apt-n</u></li> <li><u>2.1 Modi</u> <u>only</u>)</li> <li><u>2.2 Insta</u></li> <li>3 Install Apac</li> </ul>	<u>hirror</u> f <u>y /etc/apt/sourc</u> <u>II apt-mirror</u> he	<u>es.list (Debian Sarge</u>	
This tutorial shows how a Debian/Ubuntu mirro local network with the mirror. Having a local Debian/Ubuntu mirror i	v to create r for your cool apt- s good if you have	<u>4 Configure a</u> to install multiple syste	<u>pt-mirror</u> ms in your local	network because then	
all needed packages c bandwidth. I want to say first that t	an be downloaded his is not the only v	over the fast LAN conn way of setting up such a	a system. There	ng your internet are many ways of	
achieving this goal but	this is the way I tal	ke. I do not issue any g	uarantee that thi	s will work for you!	
1 Preliminary Note					

Please note that you need a fast internet connection to download all the packages to your mirror as well as a lot of hard disk space. In my tests I mirrored the main, contrib, and non-free sections of Debian Sarge and the main, restricted, and universe sections of Ubuntu Edgy Eft which took about 25GB of hard disk space and about 6 hours of download time on a 16MBit DSL line. I will not mirror security updates in this tutorial - I think it's a good idea to always download security updates directly from the internet. That way you can be sure you get the latest ones.

I've tested this on a Debian Sarge and a Ubuntu Edgy Eft system. If you use different Debian/Ubuntu versions, the procedure might differ a little bit. You should have already set up a basic Debian Sarge system (e.g. as outlined on pages one and two of

<u>http://www.howtoforge.com/perfect\_setup\_debian\_sarge</u>) or a basic Ubuntu Edgy Eft system (e.g. as outlined on pages one to three of <u>http://www.howtoforge.com/perfect\_setup\_ubuntu\_6.10</u>).

In this example my local mirror has the IP address 192.168.0.100.

# 2 Install apt-mirror

### 2.1 Modify /etc/apt/sources.list (Debian Sarge only)

If you are on Debian Sarge, you must modify /*etc/apt/sources.list* to install apt-mirror. I don't know if this is necessary on Debian Etch or Sid, please try it yourself. This step is not necessary for Ubuntu Edgy Eft.

\_\_\_\_\_

\_\_\_\_\_

```
vi /etc/apt/sources.list
```

Please add the following line to the file:

```
[...]
deb http://apt-mirror.sourceforge.net/ apt-mirror/
[...]
```

Then update the packages database:

```
apt-get update
```

#### 2.2 Install apt-mirror

This step is for all systems (Debian and Ubuntu). To install apt-mirror, please run

apt-get install apt-mirror

Later on, I want to access my new local Debian/Ubuntu mirror over http, therefore I install the Apache web server now:

```
apt-get install apache2
```

The default document root is /var/www, I will create symlinks from that directory to the location of the Debian and Ubuntu repository later on.

# 4 Configure apt-mirror

apt-mirror's configuration file is /etc/apt/mirror.list. There should already be a default configuration in it; on Debian Sarge the file looks like this:

```
# apt-mirror configuration file
##
## The default configuration options (uncomment and change to overrid
e)
##
#
# set base path
                        /var/spool/apt-mirror
# set mirror path $base path/mirror
# set skel_path
                         $base path/skel
# set var path $base path/var
#
# set defaultarch
# set nthreads 20
##
## Example sources
##
# sarge's section
deb http://ftp.fi.debian.org/debian sarge main contrib non-free
deb-src http://ftp.fi.debian.org/debian sarge main contrib non-free
deb http://security.debian.org/debian-security sarge/updates main con
trib non-free
deb-src http://security.debian.org/debian-security sarge/updates main
contrib non-free
deb http://ftp.fi.debian.org/debian sarge main/debian-installer
# sarge-proposed-updates's section
deb http://ftp.fi.debian.org/debian sarge-proposed-updates main contr
```

```
ib non-free
deb-src http://ftp.fi.debian.org/debian sarge-proposed-updates main c
ontrib non-free
# sid's section
deb http://ftp.fi.debian.org/debian sid main contrib non-free
deb-src http://ftp.fi.debian.org/debian sid main contrib non-free
deb http://ftp.fi.debian.org/debian sid main/debian-installer
# experimental section
deb http://ftp.fi.debian.org/debian ../project/experimental main cont
rib non-free
deb-src http://ftp.fi.debian.org/debian ../project/experimental main
contrib non-free
##
## Cleaner configuration example
##
# set cleanscript $var path/clean.sh
# Cleaning section
clean http://security.debian.org/
clean http://ftp.fi.debian.org/
skip-clean http://ftp.fi.debian.org/doc/
skip-clean http://ftp.fi.debian.org/tools/
skip-clean http://ftp.fi.debian.org/debian-cd/
skip-clean http://ftp.fi.debian.org/debian-minicd/
skip-clean http://ftp.fi.debian.org/debian/dists/sarge/main/installer
-i386/
skip-clean http://ftp.fi.debian.org/debian/dists/sid/main/installer-i
386/
skip-clean http://ftp.fi.debian.org/debian/doc/
skip-clean http://ftp.fi.debian.org/debian/tools/
skip-clean http://ftp.fi.debian.org/debian/project/
skip-clean http://ftp.fi.debian.org/debian-non-US/project/
```

On Ubuntu Edgy Eft, the file looks like this:

```
# set skel path
                $base path/skel
# set var path
                $base path/var
# set cleanscript $var path/clean.sh
# set defaultarch
set nthreads 20
set tilde 0
#
deb http://archive.ubuntu.com/ubuntu edgy main restricted universe mu
ltiverse
deb http://archive.ubuntu.com/ubuntu edqy-updates main restricted uni
verse multiverse
#deb http://archive.ubuntu.com/ubuntu edgy-backports main restricted
universe multiverse
deb http://archive.ubuntu.com/ubuntu edgy-security main restricted un
iverse multiverse
#deb http://archive.ubuntu.com/ubuntu edgy-proposed main restricted u
niverse multiverse
deb-src http://archive.ubuntu.com/ubuntu edgy main restricted univers
e multiverse
deb-src http://archive.ubuntu.com/ubuntu edgy-updates main restricted
universe multiverse
#deb-src http://archive.ubuntu.com/ubuntu edgy-backports main restric
ted universe multiverse
deb-src http://archive.ubuntu.com/ubuntu edgy-security main restricte
d universe multiverse
#deb-src http://archive.ubuntu.com/ubuntu edgy-proposed main restrict
ed universe multiverse
clean http://archive.ubuntu.com/ubuntu
```

If you compare the file with /*etc/apt/sources.list*, you will see that it's very similar. /*etc/apt/mirror.list* mainly lists the repositories that should be mirrored, plus a few other options.

Now we modify /etc/apt/mirror.list. As I said before, I want to mirror the main, contrib, and nonfree sections of Debian Sarge and the main, restricted, and universe sections of Ubuntu Edgy Eft, but I don't want to mirror the security updates as these should be downloaded directly from the internet. Also, I don't want to mirror the source packages because in 95% of all installations you don't need source packages, and they need a lot of space on the hard disk. So my /etc/apt/mirror.list looks like this:

```
vi /etc/apt/mirror.list
```

```
# apt-mirror configuration file
##
## The default configuration options (uncomment and change to overrid
e)
##
#
#
```

```
# set base path /var/spool/apt-mirror
# set mirror path $base path/mirror
# set skel_path $base_path/skel
# set var_path $base_path/var
#
# set defaultarch
# set nthreads 20
#
##
## Example sources
##
# sarge's section
deb http://ftp.de.debian.org/debian sarge main contrib non-free
# Ubuntu Edgy Eft
deb http://de.archive.ubuntu.com/ubuntu/ edgy main restricted univers
е
##
## Cleaner configuration example
##
#
# set cleanscript $var path/clean.sh
#
# Cleaning section
clean http://ftp.de.debian.org/
clean http://de.archive.ubuntu.com/
```

Please note that I used *ftp.de.debian.org* instead of *ftp.fi.debian.org* and *de.archive.ubuntu.com* instead of *archive.ubuntu.com*. You should use mirrors that are close to you, so if you are in the U.S., for example, replace *de* with *us*, and so on.

The cleaning section at the end tells apt-mirror in which directories on the local hard disk it should check to see if hard disk space can be freed. I want to check the whole local repositories for both Debian and Ubuntu, therefore I specify

clean http://ftp.de.debian.org/
clean http://de.archive.ubuntu.com/

If you want to use other Debian/Ubuntu versions, simply replace *sarge* with *etch* or *sid* and *edgy* with *breezy*, *dapper*, etc.

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# Comments

From:

If you have both 32bit (i386) and 64 bit (amd64) you can have apt-mirror get the packages for both architectures. Just add the architecture after deb on each line. Example: deb-amd64 http://ftp.osuosl.org/pub/ubuntu gutsy main restricted universe multiverse deb-i386 http://ftp.osuosl.org/pub/ubuntu gutsy main restricted universe multiverse

# From: Anonymous

Thanks for the info. We just create a repo.

Thanks, Ivu Loto Team

# From: TCPMeta

I followed your guide to the T for the mirror portion. I am also using the mirror as a PXE server to load the debian install image. My clients do not like the mirror. I select HTTP and point it to my server's IP 192.168.1.100, point it to /debian/ and it asks what version I want and after I select Wheezy it fails. Might give it a shot with FTP next.

From: steven schuit

Steven faggot loves to be lazy

# From: Tom

My apt-mirror download finishes, but it still says that it needs to get 26.4 GiB, even after the script completes. Is this normal? I can keep re-running the script, but it finishes without downloading anything. In total I've downloaded 95GiB so far, it says it still has 26.4 GiB to download, but completes at 26.4 GiB.

26.4 GiB will be downloaded into archive.Downloading 394 archive files using 20 threads...Begin time: Tue Aug 23 08:20:22 2016[20]... [19]... [18]... [17]... [16]... [15]... [14]... [13]... [12]... [11]... [10]... [9]... [8]... [7]... [6]... [5]... [4]... [3]... [2]... [1]... [0]... End time: Tue Aug 23 08:26:18 2016

# From: i386 and AMD64 architectures

I found the apt-mirror command would not replicate the folders for other CPU architectures - ie - installed a 16.10 64 bit system, and it only replicated the binary-amd64 folders. Apt-get update would complain the i386 folders were missing. I had to add [arch=amd64] to the subscribing clients sources.list files.

From: jhebert

Reply

Reply

# Reply

# Reply

# Reply

Reply

Hi! I have followed this process all the way through and am working on keeping a couple virtual servers up to date via a virtual lan switch. When I pull an "apt update" from the target machine I get the following: Ign http://192.168.0.10 jessie InRelease Ign http://192.168.0.10 jessie Release.gpg Ign http://192.168.0.10 jessie Release Err http://192.168.0.10 jessie/main i386 Packages 404 Not Found Err http://192.168.0.10 jessie/contrib i386 Packages 404 Not Found Err http://192.168.0.10 jessie/non-free i386 Packages 404 Not Found Ign http://192.168.0.10 jessie/contrib Translation-en\_US Ign http://192.168.0.10 jessie/contrib Translation-en Ign http://192.168.0.10 jessie/main Translation-en\_US Ign http://192.168.0.10 jessie/main Translation-en Ign http://192.168.0.10 jessie/non-free Translation-en US Ign http://192.168.0.10 jessie/non-free Translation-en W: Failed to fetch http://192.168.0.10/debian/dists/jessie/main/binary-i36/Packages 404 Not Found W: Failed to fetch http://192.168.0.10/debian/dists/jessie/contrib/binary-i36/Packages 404 Not Found W: Failed to fetch http://192.168.0.10/debian/dists/jessie/non-free/binary-i36/Packages 404 Not Found E: Some index files failed to download they have been ignored, or old ones used instead.

Any suggestions would be very helpful!

# From: sneha

Hey, how can I use https. How to use private IP for that purpose.

#### Tutorials

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