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How To Create A Local Debian/Ubuntu Mirror With apt-mirror - Page 3

9 Configure Your Client Computers To Use The Local Mirror

Now that our local mirror is ready to be used, all we have to do is tell our Debian Sarge and Ubuntu Edgy Eft systems in our local network to use it.

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9.1 Debian Sarge

On Debian Sarge systems, you can replace the *main contrib non-free* repository in `/etc/apt/sources.list` like this:

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

```
[...]
deb http://192.168.0.100/debian sarge main contrib non-free
[...]
```

Instead of *sarge* you could also use *stable*:

```
[...]  
deb http://192.168.0.100/debian stable main contrib non-free  
[...]
```

Afterwards, run

```
apt-get update
```

9.2 Ubuntu Edgy Eft

On Ubuntu Edgy Eft systems, you can replace the *main restricted universe* repository in */etc/apt/sources.list* like this:

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

```
[...]  
deb http://192.168.0.100/ubuntu/ edgy main restricted universe  
[...]
```

Afterwards, run

```
apt-get update
```

9.3 Fresh Installation

If you install a fresh Debian Sarge or Ubuntu Edgy Eft system, specify your local mirror like this when the installer asks you which repository you'd like to use:

Debian Configuration

Apt configuration

Please choose the method apt (the Debian package management tool) should use to access the Debian archive.

For example if you have a Debian cd, select "cdrom", while if you plan to install via a Debian mirror, choose "ftp" or "http".

Archive access method for apt:

cdrom
http
ftp
filesystem
edit sources list by hand

<Ok>

<Cancel>

Debian Configuration

Apt configuration

Select the country the mirror should be in. You should use a mirror in your country or region if you do not know which mirror has the best Internet connection to you.

Mirror country:

enter information manually ↑
Argentina #
Australia
Austria
Belarus
Belgium
Brazil
Britain (UK)
Bulgaria
Canada
Chile
China
Colombia
Costa Rica ↓

<Ok>

<Cancel>

Debian Configuration

Apt configuration

Enter the hostname of the mirror from which Debian will be downloaded.

Mirror hostname:

192.168.0.100

<Ok> <Cancel>

Debian Configuration

Apt configuration

Enter the directory in which the Debian mirror is located.

Mirror directory:

/debian

<Ok> <Cancel>

Debian Configuration

Apt configuration

If you need to use a HTTP proxy to access the outside world, please enter the proxy information here. Otherwise, leave this blank.

The proxy information should be the standard form of "http://[[user]][:pass]@host[:port]"

HTTP proxy information (blank for none):

<Ok> <Cancel>

Afterwards the installer will use your local mirror to install the system:

```
Testing apt sources...
Get:1 http://192.168.0.100 stable/main Packages [4535kB]
Get:2 http://192.168.0.100 stable/main Release [95B]
Fetched 4535kB in 5s (841kB/s)
Reading Package Lists... 51%
```

10 Links

- apt-mirror: <http://apt-mirror.sourceforge.net>
- Debian: <http://www.debian.org>
- Ubuntu: <http://www.ubuntu.com>

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Comments

From:

Reply

Wow. This is extensive. I've only got one question (not asking for help, just clarification).
When downloading, say, for Ubuntu's Gutsy repositories (this one was designed for Edgy, but it's all the same) does **apt-sources** download all the architectures (**i386**, **amd64**, **powerpc** and **sparc**) as well?
I don't see any text that just calls for a single one such as just **i386**.

From: Anonymous

Reply

add this to you /etc/apt/mirrors.list
set defaultarch i386

From: CyberCowboy

Reply

How would you do multiple architectures, for me specifically I need x64 and i386

From: AtesComp

Reply

You use "deb-i386" and "deb-amd64" instead of just "deb" at the beginning of each mirror line.

Examples:

```
deb-i386 http://us.archive.ubuntu.com/ubuntu karmic main restricted  
universe multiverse
```

```
deb-amd64 http://us.archive.ubuntu.com/ubuntu karmic main restricted  
universe multiverse
```

From: Dan

Reply

I had a question. My apt repository is located at
/var/spool/apt-mirror/mirror/ftp.us.debian.org/debian/pool
and it contains contrib main and non-free packages

The thing I cannot figure out is I am working with a pool and not a specific dist.

How would I setup my Debian lenny clients to pull in my needed packages since the examples above seem to be for a specific distro if you understand what I mean?

The pool is confusing me.

Thanks,
Dan

From: Anonymous

Reply

When you specify a dist, that tells is what packages list to read (arranged by dist and architecture).

These package list tell it what packages to read from the pool. Apt-mirror will only download the specified packages, but have a browse around one of the primary mirrors. It is logically laid out, and explains a lot about the working of apt.

So, pool/ contains all the packages, and dists/ contains lists of packages.

From: Rebeca

Reply

in my case, I mirrored the three last versions of ubuntu. apt-mirror has created the pool but did not create the folder /dists... so my local computers are unable to pull from the mirror in sources.list. what i did wrong? and how fix that? Thanks..and sorry my "google english"!

From: Joe

Reply

I have the same question as the previous comment, after running apt-mirror I only have the ubuntu/pool directory, I don't have ubuntu/dists and such. This causes clients to fail apt-get update when they cannot find files. What would cause that and how do you fix it?

From: Anonymous

Reply

Thanks for the write up!

From: Anonymous

Reply

i followed the procedure in this doc.

the apt-get update and apt-get upgrade works fine in the client server.

but the do-release-upgrade always complain there is no new release found.

but i did put the 10.04/10.10/11.04... in the mirror-list file.

and i did edit the /etc/update-manager/meta-release file.

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Tutorial Info

Author: falko
Tags: debian, ubuntu

VMware image download

Local Debian / Ubuntu Mirror (without repositories - run "su - apt-mirror -c apt-mirror" to download them)



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Guide: VMWare Image Import Guide.
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