# Take 1 – Fail

## Install m4 (Unix macro processor.)

$ wget ftp://ftp.gnu.org/gnu/autoconf/m4-1.4.17.tar.gz $ tar -xvzf m4-1.4.17.tar.gz $ cd m4-1.4.17 $ ./configure --prefix=/opt/m4-1.4.17 $ make $ make check $ make install ``` `

## Install autoconf

```
$ wget ftp://ftp.gnu.org/gnu/autoconf/autoconf-
latest.tar.gz
$ tar -xvzf autoconf-latest.tar.gz
$ cd autoconf-2.69
$ M4=/opt/m4-1.
4.17/bin/m4 ./configure  --prefix=/opt/autoconf-2.69
$ make
$ make check ## OK
$ make install
``
`


## Edit /etc/enviroment
```

PATH=$PATH:/opt/m4-1.4.17/bin/m4 PATH=$PATH:/opt/autoconf-2.69/bin/ ``` `

##Install automake

```
$ wget http://ftp.sotirov-
bg.net/pub/mirrors/gnu/automake/automake-1.15.tar.xz
$ cd automake-1.15
```

```
$ PATH=$PATH:/opt/autoconf-2.69/bin/ ./configure --
prefix=/opt/automake-1.15
$ PATH=$PATH:/opt/autoconf-2.69/bin/ make check
$ make install
```

## Install jabberd2

```
$ wget
http://http.debian.net/debian/pool/main/j/jabberd2/jabberd
2_2.4.0.orig.tar.gz $
tar -xvzf jabberd2_2.4.0.orig.tar.gz
.....

Summary: Saw that it would be a madness to install every
dependency from source,
learned  a lot in the process but since it is in problem
description decide to
use apt-get for the dependencies and install only the
jabberd2 from source


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# Take 2

After long hours of research discovered I had to use apt-
pinning so that I have
apt mix-and-match between Stable Testing, and Unstable
source.

Found this tutorial
```

```
http://web.archive.org/web/20101113053904/http://jaqque.sb
ih.org/kplug/apt-pinning.html
https://wiki.debian.org/DebianUnstable#How_do_I_backport_a
_sid_package_to_testing_or_stable.3F


* Edit the /etc/apt/source.list/ file by adding:
```

deb-src http://httpredir.debian.org/debian unstable main deb http://httpredir.debian.org/debian unstable main non-free contrib

```
* Update:
```

$ apt-get update

```
* Get the source
```

$ apt-get source jabberd2/unstable

```
* Install dependencies:
```

$ apt-get build-dep jabberd2/unstable E: Build-Depends dependency for jabberd2 cannot be satisfied because package dh-systemd has no candidate version

```
* Manually install all of the dependencies:

As of jabberd2_2.4.0-2.dsc
```

Build-Depends: debhelper (>= 9), dh-systemd (>= 1.5), dh-autoreconf, libssl-dev, libgsasl7-dev (>= 1.4.0), libdb-dev, libpam0g-dev,

libmysqlclient-dev, libpq-dev, libldap2-dev, libsqlite3-dev, libidn11-dev, libexpat1-dev, libudns-dev, libhttp-parser-dev, check

```
Run instllation of dh-systemd from unstable
```

$ apt-get install debhelper -t unstable $ apt-get install dh-systemd/unstable

```
Install the other dependies from:
```

$ apt-get install dh-autoreconf libssl-dev libgsasl7-dev libdb-dev libpam0g-dev libmysqlclient-dev libpq-dev libldap2-dev libsqlite3-dev libidn11-dev libexpat1-dev libudns-dev libhttp-parser-dev check

```
To be sure everything is ok:
```

$ apt-get build-dep jabberd2

```
* install tools
```

$ apt-get install build-essential fakeroot devscripts

```

```

$ cd jabberd2-2.4.0 $ debuild -b -uc -us

configure:16803: checking for CRYPTO_lock in -lcrypto configure:16828: gcc -o conftest -g -O2 -fdebug-prefix-map=/home/student/jabberd2-2.4.0=. -fstack-protector-strong -Wformat -Werror=format-security -funsigned-char -fdiagnostics-col or -Wdate-time -D_FORTIFY_SOURCE=2

-Wl,-z,relro -Wl,-z,now conftest.c -lcrypto -lgsasl -ludns -lidn -lexpat -lresolv -lcrypt -ldl >&5 /tmp/ccJO5bS0.o: In function main':
./conftest.c:133: undefined reference toCRYPTO_lock' col ..... make[1]: *** [override_dh_auto_configure] Error 2 make[1]: Leaving directory '/home/student/jabberd2-2.4.0' debian/rules:11: recipe for target 'build' failed

```
Concerned that I might have messed up everything redo th
whole thing and it was
a success. I think that it was leftovers from a manual
installations of openssl
or not using -t unstable param on some of the
installations.
```

$ cd .. $ dpkg -i jabberd2_2.4.0-2_amd64.deb
$ dpkg -i jabberd2-dbgsym_2.4.0-2_amd64.deb $ cd jabberd2-2.4.0
$ make install

```
I have on the path the following
```

jabberd2-c2s jabberd2-router jabberd2-sm jabberd2-jabberd jabberd2-s2s