

Because of a [bug in mpd](#) which is fixed in 10-STABLE I wanted to move one of my FreeBSD machines from 10.0-RELEASE to 10.0-STABLE. The process to do so is fairly simple. Basically, you check out the new source code, build the world, build the kernel, install the kernel, install the world, merge some stuff and reboot.

Make sure you have a backup of important stuff on the system.

### Stable?

The name "-STABLE" is frequently misunderstood. It does not mean solid or steady. -STABLE means that while code can change, the ABI (Application Binary Interface) will remain stable and not change. Programs compiled to run on FreeBSD 9.0-RELEASE, or 9.1-RELEASE, or 9.2-RELEASE will continue to work on FreeBSD 9-STABLE. Effectively, -STABLE is the latest version of FreeBSD you can get without breaking installed software. [\[source\]](#)

### Procedure

Move the current source code to a backup folder to be sure to get only -STABLE code:

```
mv /usr/src /usr/src-RELEASE
```

Do the same thing for the ports tree:

```
mv /usr/ports /usr/ports-RELEASE
```

When I did not moved the /usr/src folder and continued this article, everytime I would be back in 10.0-RELEASE...

Check out the STABLE source code:

```
svn checkout https://svn0.us-west.freebsd.org/base/stable/10 /usr/src
```

Also for the ports tree:

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Written by BiRU

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```
svn checkout https://svn0.us-west.freebsd.org/ports/head /usr/ports
```

Then cd in to the correct folder

```
cd /usr/src
```

Build the world:

```
make buildworld -j4
```

The -j 4 part means that it should run 4 jobs at once. I have a quad core CPU so all the cores will be used.

Build the kernel:

```
make buildkernel KERNCONF=VPN make installkernel KERNCONF=VPN
```

I have a different kernel file for the VPN setup.

Now reboot in to the new kernel:

```
shutdown -r now
```

Next, it was time to install the world. However, make installworld complained:

```
make installworld ERROR: Required unbound user is missing, see /usr/src/UPDATING. ***  
Error code 1 Stop. make[1]: stopped in /usr/src *** Error code 1 Stop. make: stopped in  
/usr/src
```

/usr/src/UPDATING to the rescue:

20130916: With the addition of unbound(8), a new unbound user is now required during installworld. "mergemaster -p" can be used to add the user prior to installworld, as documented in the handbook.

However, mergemaster -p did not create the user:

```
mergemaster -p *** Creating the temporary root environment in /var/tmp/temproot ***  
/var/tmp/temproot ready for use *** Creating and populating directory structure in  
/var/tmp/temproot *** Beginning comparison *** Temp ./etc/group and installed have the  
same Id, deleting *** Temp ./etc/master.passwd and installed have the same Id, deleting ***  
Comparison complete *** /var/tmp/temproot is empty, deleting
```

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I already am on FreeBSD 10, but this box is updated from 8 to 9 to 10, so maybe that didn't work out quite well. Installing unbound via pkg did work:

```
pkg install unbound
```

It seemed that it was half done:

```
Proceed with installing packages [y/N]: y ldns-1.6.17.txz unbound-1.4.22.txz Checking
integrity... done [1/2] Installing ldns-1.6.17... done [2/2] Installing unbound-1.4.22...==>
Creating users and/or groups. Using existing group 'unbound'. Creating user 'unbound' with uid
'59'. done
```

Oh wel... Now the make installworld continues;

```
make installworld
```

After that finished we can do another mergemaster:

```
mergemaster -Ui
```

Only /etc/motd changed, so, no big things.

Time to reboot:

```
shutdown -r now
```

Remove old files and libraries:

```
cd /usr/src make check-old >>> Checking for old files >>> Checking for old libraries >>>
Checking for old directories To remove old files and directories run 'make delete-old'. To
remove old libraries run 'make delete-old-libs'. make delete-old >>> Removing old files (only
deletes safe to delete libs) remove /usr/include/clang/3.3/__wmmmintrin_aes.h? y remove
/usr/include/clang/3.3/__wmmmintrin_pclmul.h? y remove /usr/include/clang/3.3/altivec.h? y
remove /usr/include/clang/3.3/ammintrin.h? y [...] >>> Old files removed >>> Removing old
directories >>> Old directories removed To remove old libraries run 'make delete-old-libs'.
make delete-old-libs >>> Removing old libraries Please be sure no application still uses those
libraries, else you can not start such an application. Consult UPDATING for more information
regarding how to cope with the removal/revision bump of a specific library. >>> Old libraries
removed
```

Note that freebsd-update does not work with the STABLE branch. Therefore this process is required...

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That's it. Run `freebsd-version` to see that you are now on stable:

```
freebsd-version 10.0-STABLE
```