

25 DAYS UNTIL THE SCHEDULED RELEASE OF OPENBSD 4.6!

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UPDATING OBSD 4.5 TO STABLE WITH CVSUP

With Concurrent Versions System UPdate, OpenBSD users can keep their own source trees up to date.

Online you will find a lot of information on the older method of updating called CVS. CVS has given way to CVSup for updating since CVSup is more efficient for this task.

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INTRO TO UPDATING

If you are not a developer then updating to *-stable* should be your choice. The `cvsup` program will allow you to download the updated source files for OpenBSD. Then you will want to rebuild your system files, kernel and any ports that you already have installed to complete the update process.

What is needed to update OpenBSD

- An online connection
- The `cvsup` program
- Cvsup configuration files

Obtaining CVSup

The easiest way to obtain the `cvsup` program would be with the `pkg_add remote` command.

Adding the `cvsup` package to your server

```
# pkg_add -v ftp://ftp.openbsd.org/pub/OpenBSD/4.5/packages/i386/cvsup-16.1hp1-no_x11.tgz
```

What needs updating?

The average home user will want to update:

- System and kernel source files
- Port system source files
- Xenocara (X Window) system source files

Information on where to download and keep source files can be found [here](#).

1 OF 3 - UPDATING AND BUILDING YOUR SYSTEM AND KERNEL

- step 1. Create a `cvsup` configuration file for system and kernel sources
- step 2. Run `cvsup` with the configuration file
- step 3. Rebuild and install your kernel
- step 4. Rebuild and install your system

1. Using your favorite text editor create a file called `cvsup-file-src`

```
# Defaults that apply to all the collections
*default release=cvs
```

```
*default delete use-rel-suffix
*default umask=002
*default host=anoncvs3.usa.openbsd.org
*default base=/usr
*default prefix=/usr
*default tag=OPENBSD_4_5

# If your network link is a T1 or faster, comment out the following line.
# *default compress

#OpenBSD-ports
#OpenBSD-all
OpenBSD-src
#OpenBSD-www
#OpenBSD-x11
#OpenBSD-xenocara
```

Change anoncvs3.usa.openbsd.org to a [server near you](#) and uncomment the OpenBSD-src line.

2. Updating your source tree with the cvsup-file-src file

```
# cvsup -g -L 2 cvsup-file-src
```

The source tree will be a 594 meg download the first time you run cvsup.

3. Compiling and installing a kernel

Backup the current kernel

```
# cp /bsd /bsd.old
```

Next configure the kernel

```
# cd /usr/src/sys/arch/i386/conf/
# config GENERIC
Don't forget to run "make depend"
```

Finally compile and install the new kernel

```
# cd ../compile/GENERIC
# make clean && make depend && make && make install
```

Simply reboot to try out the new kernel.

4. Rebuilding the system

```
# rm -rf /usr/obj/*
# cd /usr/src
# make obj
# cd /usr/src/etc && env DESTDIR=/ make distrib-dirs
# cd /usr/src
# make build
```

Total time for make build on a 2.60GHz processor was 75 minutes.



Note: Make build does not rebuild your ports collection. To rebuild ports you will need to first check your already installed ports for any upgrades, then individually rebuild each port that needs upgrading. Further information can be found [here](#).

2 OF 3 - UPDATING AND BUILDING YOUR PORTS

- step 1. Create a cvsup configuration file for the ports source files
- step 2. Run cvsup with the configuration file
- step 3. Checking your ports with the out-of-date script
- step 4. Updating/Rebuilding your ports

1. Using your favorite text editor create a file called cvsup-file-ports

```
# Defaults that apply to all the collections
*default release=cvs
*default delete use-rel-suffix
```

```
*default umask=002
*default host=anoncv33.usa.openbsd.org
*default base=/usr
*default prefix=/usr
*default tag=OPENBSD_4_5

# If your network link is a T1 or faster, comment out the following line.
# *default compress

OpenBSD-ports
#OpenBSD-all
#OpenBSD-src
#OpenBSD-www
#OpenBSD-x11
#OpenBSD-xenocara
```

Change anoncv33.usa.openbsd.org to a [server near you](#) and uncomment the OpenBSD-ports line.

2. Updating your ports tree with the cvsup-file-ports file

```
# cvsup -g -L 2 cvsup-file-ports
```

The ports tree will be a 103 meg download the first time you run cvsup.

3. Checking your ports with the out-of-date script

This output shows there are **no** ports needing updating

```
# cd /usr/ports/infrastructure/build/
# ./out-of-date
Collecting installed packages
Collecting port versions: complete
Collecting port signatures: complete
Outdated ports:
#
```

This output shows there are ports needing updating

```
# cd /usr/ports/infrastructure/build/
# ./out-of-date
Collecting installed packages
Collecting port versions: complete
Collecting port signatures: complete
Outdated ports:
www/mozilla-firefox          # 3.0.6 -> 3.0.7
#
```

The only port needing upgrading in this example is Firefox.

4. Updating/Rebuilding your ports

Locate the Firefox port directory

```
# find /usr/ports/ -name mozilla-firefox
```

Update the Firefox port to the latest release

```
# cd /usr/ports/www/mozilla-firefox/
# make update
```

3 OF 3 - UPDATING AND BUILDING YOUR XENOCARA (X WINDOW) SYSTEM

- step 1. Create a cvsup configuration file for the Xenocara (X Window) system
- step 2. Run cvsup with the configuration file
- step 3. Rebuild the Xenocara (X Window) system

1. Using your favorite text editor create a file called cvsup-file-xenocara

```
# Defaults that apply to all the collections
*default release=cvs
*default delete use-rel-suffix
```

```
*default umask=002
*default host=rt.fm
*default base=/usr
*default prefix=/usr
*default tag=OPENBSD_4_5

# If your network link is a T1 or faster, comment out the following line.
# *default compress

#OpenBSD-ports
#OpenBSD-all
#OpenBSD-src
#OpenBSD-www
#OpenBSD-x11
OpenBSD-xenocara
```

Change `rt.fm` to a [server near you](#) and uncomment the `OpenBSD-xenocara` line.

 **Note:** Currently not all CVSup servers offer Xenocara.

2. Updating your ports tree with the `cvsup-file-xenocara` file


```
# cvsup -g -L 2 cvsup-file-xenocara
```

The xenocara tree will be a 330 meg download the first time you run `cvsup`.

3. Rebuilding your Xenocara (X Window) system

```
# rm -rf /usr/xobj/*
# cd /usr/xenocara
# make bootstrap
# make obj
# make build
```

Total time for `make build` on a 2.60GHz processor was 75 minutes.

 **Note:** OpenBSD releases 4.1 and below required the `tk` and `tc1` packages to be installed when building the X Window system. These packages are no longer required when building Xenocara.

WHEN KERNEL BUILDING GOES BAD

If the newly installed kernel will not boot then boot into a previous bootable kernel.

When you restart the system wait until you see something similar to the below

```
Using drive 0, partition 3.
Loading...
probing : pc0 com0 apm mem[634K 319M a20=on]
disk: fd0 hd0+
>> OpenBSD/i386 BOOT 3.01
boot>
```

at this point boot into a previous bootable kernel:

```
Using drive 0, partition 3.
Loading...
probing : pc0 com0 apm mem[634K 319M a20=on]
disk: fd0 hd0+
>> OpenBSD/i386 BOOT 3.01
boot> bsd.old
```

If you notice any errors, please [let me know](#).

OTHER OPENBSD TUTORIALS



■ [Installation](#) - demonstration of a FTP installation ■ [Security](#) - security suggestions

- [Patching](#) - patching and kernel building
- [Tips & Tricks](#) - suggestions and configurations

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