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Upgrade FreeBSD 7.x to 7.2 Stable Release

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I tried a [binary upgrade](#) ^[2] method, but it failed due to custom kernel installed on my FreeBSD 7.1_p5 64 bit AMD systems. How do I upgrade my FreeBSD server using source code method?

The procedure for doing a source code based update is described below:

Step # 1: Get updated source code



WARNING! These examples may crash your computer if not executed properly. Make a backup of your system, Sql and configuration before you do this.

You need to use [cvsup command](#) ^[3] to get latest source code.

```
# cp /usr/share/examples/cvsup/standard-supfile /root/supfile
# vi /root/supfile
```

Set host as follows:

```
host=cvsup1.us.FreeBSD.org
```

CVSup servers for [FreeBSD are running](#) ^[4] at the various sites around the world. Finally, update cvs tag to 7.2:

```
release=cvs tag=RELENG_7_2
```

Save and close the file. Get updated source tree, enter:

```
# cd /usr/src
# csup /root/supfile
```

Open /usr/src/UPDATING and read important information regarding upgrade procedure including known issues, bugs and workaround.

```
# vi /usr/src/UPDATING
```

Step # 2: Build new compiler and related tools

First compiles the new compiler and a few related tools, then uses the new compiler to compile the rest of the system.

```
# cd /usr/src/
# make buildworld
```

Step # 3: Build and install new kernel

Now, you have latest compiler and other tools, just build kernel:

```
# make buildkernel
# make installkernel
```

You can also specify kernel custom name using KERNCONF. If your kernel config file name is onetouch, enter:

```
# make buildkernel KERNCONF=onetouch
# make installkernel KERNCONF=onetouch
```

Finally, you need to reboot system and boot into a single user mode using `boot -s` from the loader prompt:

```
# shutdown -r now
```

Step # 4: Install the base system 7.2

First, mount the system:

```
# mount -a -t ufs
```

To install some system configuration files that are required by the new base system, enter :

```
# mergemaster -p
```

Accept the changes as promoted as per your configuration. Finally, install the base system:

```
# cd /usr/src
# make installworld
```

Finally, merge your 7.2 configuration files, enter:

```
# mergemaster -i
```

Now, you have FreeBSD 7.2 new kernel and base system installed. Just reboot the server:

```
# shutdown -r now
```

Make sure everything is working:

```
# sockstat -6 [5]
# sockstat -4 [5]
# tail -f /var/log/messages
# more /var/run/dmesg.boot
# tail -f /path/to/app/log/file
```

Update FreeBSD Applications

Now you are running new FreeBSD 7.2 stable environment. All you have to do is upgrade installed [ports tree using portsnap](#) ^[6], enter:

```
# portsnap fetch update
```

List outdated applications, enter:

```
# pkg_version -vl '<'
```

Finally, check all ports, update as necessary (portmaster is not part of base system, you need to grab it from /usr/ports/ports-mgmt/portmaster) :

```
# portmaster -a
```

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- [2] binary upgrade: <http://www.cyberciti.biz/tips/freebsd-72-review-improved-virtualization.html#binaryUpgrade>
- [3] cvsup command: <http://www.cyberciti.biz/faq/freebsd-cvsup-update-system-applications/>
- [4] FreeBSD are running: <http://www.freebsd.org/doc/handbook/cvsup.html>
- [5] sockstat -6: <http://www.cyberciti.biz/tips/freebsd-lists-open-internet-unix-domain-sockets.html>
- [6] ports tree using portsnap: <http://www.cyberciti.biz/tips/howto-keep-freebsd-system-up-to-date.html>

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