

Installing CentOS source packages and the kernel development tools

2. You already have the full kernel source, so **continue HERE**

⚠ We are **strongly** advised **against** package building as root. (See: [Building Source RPM as non-root under CentOS](#)), so all instructions here use "user@host". You will see "student" and the host will be either your TJW account name or (for VMWare users) your BU userid.

For **TJW**:

```
[user@host ~]$ cd ~/rpmbuild/BUILD/kernel-2.6.32-504.23.4.el6/linux-2.6.32-504.23.4.el6.s390x
```

For **VMWare**:

```
[user@host ~]$ cd ~/rpmbuild/BUILD/kernel-3.10.0-514.26.2.el7/linux-3.10.0-504.26.2.el7.x86_64
```

----- continue here AFTER you do the proper command above-----

```
[user@host]$ sudo cp /boot/config-`uname -r` .config
```

(Be sure to use the **backward** quote as shown and **NO** spaces between **config-** and **`uname`**)

```
[user@host]$ make oldconfig
```

```
[user@host]$ make menuconfig
```

In the menu you get from the make menuconfig command, do NOT make any changes. Just exit the menu. When it finishes it says to run "make".

```
[user@host] make
```

NOTE: the source is the actual ".c" & ".h" files of the kernel. The "package" is the information needed to build it. To install the source package and tools for CentOS-6.6 continue here:

As **root**, install the required utility packages need to build a new kernel.

(The following steps were done for you when we built your virtual system (VMWare and TJW).

```
[root@host]# yum install rpm-build redhat-rpm-config asciidoc bison hmaccalc patchutils perl-ExtUtils-Embed xmlto
```

```
[root@ host]# yum install audit-libs-devel binutils-devel elfutils-devel elfutils-libelf-devel rng-tools
```

```
[root@ host]# yum install newt-devel python-devel zlib-devel glibc-static
```

The kernel source tree is in ~/rpmbuild/BUILD/kernel*/linux*/ directory of the user.

You have NOT made this a kernel that is in the boot manager display. You have just made sure that everything you need is in place. That gets done later

Now go to Step 4 in [W17-3](#).

HowTos/I need the Kernel Source (last edited 2015-09-23 00:45:49 by [AlanBartlett](#))
Modified by D. Foreman for TJW installations

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Installing CentOS source packages and the kernel development tools



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