



A **/boot** directory might look like the one in the screenshot below:

```
File Edit View Search Terminal Help
c7:/boot>ls -lF
total 243116
                             147837 Jul
                                         16
                                             11:43 config-3.10.0-862.9.1.el7.x86_64
               root
                             113689 Aug
                                             06:58 config-4.17.12
                     root
                                             06:57
                             113689 Aug
                                                    config-4.17.13
                     root
                             114915 Aug
                                           6 06:47 config-4.18.0-rc8
               root
                     root
               coop
                     coop
                             669045 Dec
                                              2014
                                4096 Jan 21
                                              2015
               root
                     root
                             192572
                                              2016 elf-memtest86+-5.01
               root
                     root
                                     Apr
                                             17:28
                                4096 Feb 28
               root
                     root
                                4096
                                     Aug
                                             13:45
               root
                     root
                                              2015 initramfs-0-rescue-2f662f01c5014d589867e4c1fb99bbf6.img
               root
                           40737576
                                     Jan
                     root
                                             06:42 initramfs-3.10.0-862.9.1.el7.x86_64.img
06:58 initramfs-4.17.12.img
06:58 initramfs-4.17.13.img
                           31639895
                                             06:42
                                     Jul
               root
                     root
                           30073160 Aug
               root
                     root
                           30072773
                                     Aug
               root
                     root
                           30094995
                                                   initramfs-4.18.0-rc8.img
                                     Aug
                                             06:47
               root root
                                     Feb 28 17:29 initrd-plymouth.img
Apr 5 2016 memtest86+-5.01
                           10187519
               root
                     root
                             190896
                                     Apr
               root root
                                     Dec
                                          17
                                              2015
                              19468
               coop
                     coop
                             305117
                                     Jul
                                             11:45
                                          16
               root root
                            3412056 Jul 16 11:43 System.map-3.10.0-862.9.1.el7.x86_64
               root
                     root
                            3151246 Aug
                                             06:58 System.map-4.17.12
               root root
                                             06:57 System.map-4.17.13
06:47 System.map-4.18.0-rc8
               root root
                            3151278 Aug
               root root
                            3158707 Aug
                                              2017 vmlinux-4.13.0FC26*
               root
                     root
                           38059584 Sep
                                              2015 vmlinuz-0-rescue-2f662f01c5014d589867e4c1fb99bbf6*
               root
                     root
                            4902000 Jan
                                          15
 rwxr-xr-x.
                            6234048 Jul 16 11:43 vmlinuz-3.10.0-862.9.1.el7.x86_64*
               root
                     root
 rwxr-xr-x
                                           3 06:58 vmlinuz-4.17.12
7 06:57 vmlinuz-4.17.13
                            6266928 Aug
               root
                     root
               root root
                            6266928 Aug
                                                    vmlinuz-4.17.13
               root
                            6311984
                                     Aug
                                             06:47
                                                    vmlinuz-4.18.0-rc8
                     root
```

In this example, there are multiple possible kernels to boot into, each of which has four files associated with it:

- **vmlinuz** is the compressed kernel
- **initramfs** contains a complete initial root filesystem which is loaded as a ramdisk, as well as some essential kernel modules (generally, device drivers) and the programs needed to load them, that are required to load the real filesystem, at which point it is discarded
- **config** contains all the details about how the kernel was compiled; it is not needed for system operation
- **System.map** lists the complete kernel symbol table; it is used only for debugging purposes

Depending on which Linux distribution is being used, there will be variations in the above possible kernels. For example, the **initramfs** file may actually be called **initrd**.

✓ Complete

Go to next item





