

```
511/ 5000/
[nastya@oraclelinuxlab ~]$ cd /boot/
[nastya@oraclelinuxlab boot]$ sudo mkdir kernel
[sudo] password for nastya:
[nastya@oraclelinuxlab boot]$ mv vmlinuz-* kernel/
mv: cannot move 'vmlinuz-0-rescue-09efe084985e4165a3399b5b89ca6456' to '
kernel/vmlinuz-0-rescue-09efe084985e4165a3399b5b89ca6456': Permission de
nied
mv: cannot move 'vmlinuz-5.14.0-362.18.0.2.el9_3.x86_64' to 'kernel/vmli
nuz-5.14.0-362.18.0.2.el9_3.x86_64': Permission denied
mv: cannot move 'vmlinuz-5.14.0-362.8.1.el9_3.x86_64' to 'kernel/vmlinuz
-5.14.0-362.8.1.el9_3.x86_64': Permission denied
mv: cannot move 'vmlinuz-5.15.0-200.131.27.el9uek.x86_64' to 'kernel/vml
inuz-5.15.0-200.131.27.el9uek.x86_64': Permission denied
mv: cannot move 'vmlinuz-5.15.0-203.146.5.1.el9uek.x86_64' to 'kernel/vm
linuz-5.15.0-203.146.5.1.el9uek.x86_64': Permission denied
[nastya@oraclelinuxlab boot]$ sudo mv vmlinuz-* kernel/
[nastya@oraclelinuxlab boot]$ sudo mv initramfs-* kernel/
[nastya@oraclelinuxlab boot]$
```

```
[nastya@oraclelinuxlab boot]$ ls kernel/
initramfs-0-rescue-09efe084985e4165a3399b5b89ca6456.img
initramfs-5.14.0-362.18.0.2.el9_3.x86_64.img
initramfs-5.14.0-362.8.1.el9_3.x86_64.img
initramfs-5.15.0-200.131.27.el9uek.x86_64.img
initramfs-5.15.0-200.131.27.el9uek.x86_64kdump.img
initramfs-5.15.0-203.146.5.1.el9uek.x86_64.img
initramfs-5.15.0-203.146.5.1.el9uek.x86_64kdump.img
vmlinuz-0-rescue-09efe084985e4165a3399b5b89ca6456
vmlinuz-5.14.0-362.18.0.2.el9_3.x86_64
vmlinuz-5.14.0-362.8.1.el9_3.x86_64
vmlinuz-5.15.0-200.131.27.el9uek.x86_64
vmlinuz-5.15.0-203.146.5.1.el9uek.x86_64
```

GRUB version 2.06

```
*Oracle Linux Server (5.15.0-203.146.5.1.el9uek.x86_64 with Unbreakable Enterprise Kernel) 9.3
Oracle Linux Server (5.15.0-200.131.27.el9uek.x86_64 with Unbreakable Enterprise Kernel) 9.3
Oracle Linux Server (5.14.0-362.18.0.2.el9_3.x86_64) 9.3
Oracle Linux Server (5.14.0-362.8.1.el9_3.x86_64) 9.3
Oracle Linux Server (0-rescue-09efe084985e4165a3399b5b89ca6456 with Unbreakable Enterprise Kernel) 9.3
Oracle Linux Server 9.3 (on /dev/mapper/ol-root)
Oracle Linux Server 9.3 (on /dev/mapper/ol-root)
Oracle Linux Server 9.3 (on /dev/mapper/ol-root)
UEFI Firmware Settings
```

Use the ▲ and ▼ keys to select which entry is highlighted.

Press enter to boot the selected OS, 'e' to edit the commands before booting or 'c' for a command-line. ESC to return previous menu.

```
error: ../../grub-core/fs/fshelp.c:257:file '/vmlinuz-5.15.0-203.146.5.1.el9uek.x86_64' not found.  
error: ../../grub-core/loader/i386/efi/linux.c:258:you need to load the kernel first.
```

```
Press any key to continue..._
```

GRUB version 2.06

```
load_video
set gfxpayload=keep
insmod gzio
linux ($root)/kernel/vmlinuz-5.15.0-203.146.5.1.el9uek.x86_64 root=/dev/mapper/ol-root ro crashkernel=1G-64G:448M,64G-:512M\
rd.lvm.lv=ol/root rhgb quiet
initrd ($root)/kernel/initramfs-5.15.0-203.146.5.1.el9uek.x86_64.img $tuned_initrd
```

Minimum Emacs-like screen editing is supported. TAB lists completions. Press Ctrl-x or F10 to boot, Ctrl-c or F2 for a command-line or ESC to discard edits and return to the GRUB menu.

```
[nastya@oraclelinuxlab ~]$ uname -r
5.15.0-203.146.5.1.el9uek.x86_64
[nastya@oraclelinuxlab ~]$ ls /boot/kernel/
initramfs-0-rescue-09efe084985e4165a3399b5b89ca6456.img
initramfs-5.14.0-362.18.0.2.el9_3.x86_64.img
initramfs-5.14.0-362.8.1.el9_3.x86_64.img
initramfs-5.15.0-200.131.27.el9uek.x86_64.img
initramfs-5.15.0-200.131.27.el9uek.x86_64kdump.img
initramfs-5.15.0-203.146.5.1.el9uek.x86_64.img
initramfs-5.15.0-203.146.5.1.el9uek.x86_64kdump.img
vmlinuz-0-rescue-09efe084985e4165a3399b5b89ca6456
vmlinuz-5.14.0-362.18.0.2.el9_3.x86_64
vmlinuz-5.14.0-362.8.1.el9_3.x86_64
vmlinuz-5.15.0-200.131.27.el9uek.x86_64
vmlinuz-5.15.0-203.146.5.1.el9uek.x86_64
```

Так как в меню GRUB остались старые пути до ядра и initrams, внесем в них корректировки.
После перезагрузки система загрузилась в штатном режиме

```
[root@oraclelinuxlab ~]# cat /boot/loader/entries/09efe084985e4165a3399b5b89ca6456-5.15.0-203.146.5.1.el9uek.x86_64.conf
title Oracle Linux Server (5.15.0-203.146.5.1.el9uek.x86_64 with Unbreakable Enterprise Kernel) 9.3
version 5.15.0-203.146.5.1.el9uek.x86_64
linux /kernel/vmlinuz-5.15.0-203.146.5.1.el9uek.x86_64
initrd /kernel/initramfs-5.15.0-203.146.5.1.el9uek.x86_64.img $tuned_initrd
options root=/dev/mapper/ol-root ro crashkernel=1G-64G:448M,64G-:512M rd.lvm.lv=ol/root rhgb quiet $tuned_params
grub_users $grub_users
grub_arg --unrestricted
grub_class ol
```