RHEL: Adding a boot entry to GRUB/GRUB2 configuration

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# Tested on RHEL 6 & 7



# RHEL 6
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# Adding a new entry to grub boot file is as simple as adding a new
boot stanza, at the end
# of the file, to /boot/grub/grub.conf

# To modify the default boot entry, we have to change the 'default'
option to point to the
# the new stanza. We can use entry position (zero-based numbering):


vi /boot/grub/grub.conf
[...]
default=1
timeout=5
splashimage=(hd0,0)/grub/splash.xpm.gz
hiddenmenu
title CentOS (2.6.32-358.el6.i686)
        root (hd0,0)
        kernel /vmlinuz-2.6.32-358.el6.i686 ro
root=/dev/mapper/rootvg-lv_root [...]
        initrd /initramfs-2.6.32-358.el6.i686.img
title CentOS - Backup ramdisk image
        root (hd0,0)
        kernel /vmlinuz-2.6.32-358.el6.i686 ro
```

```
root=/dev/mapper/rootvg-lv_root [...]
        initrd /initramfs-2.6.32-358.el6.i686.img.bak




# RHEL 7
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# RHEL 7 uses grub2 and /boot/grub2/grub.cfg config file, instead of
the old grub.conf
# format.

# The new grub.cfg file is not intended for direct editing. Rather we
have to modify the
# source file and run the grub2-mkconfig command to generate it.

# The sources files are /etc/default/grub and the scripts under
/etc/grub.d/

# If we want to add a new custom entry to boot menu, we have to add a
boot stanza to
# /etc/grub.d/40_custom. These stanzas will look like this:

menuentry "CentOS - Backup ramdisk image" {
        load_video
        set gfxpayload=keep
        insmod gzio
        insmod part_msdos
        insmod ext2
        set root='hd0,msdos1'
        linux16 /vmlinuz-3.10.0-327.el7.i686 root=/dev/mapper/rootvg-
lv_root ro crashkernel=auto [...]
        initrd16 /initramfs-3.10.0-327.el7.i686.img.bak
    }
menuentry "Another boot entry" {
        set root=(hd0,1)
```

```
        linux /vmlinuz-3.09-custom
        initrd /initrd-3.09-custom.img
    }
```

```
# To modify the default boot entry, we have to change the
GRUB_DEFAULT option in
# /etc/default/grub to point to the new stanza we added. We can use
entry position
# (zero-based numbering) or by name:
```

GRUB_DEFAULT="CentOS - Backup ramdisk image"

or # **GRUB_DEFAULT=2**

```
# Default value of GRUB_DEFAULT is '
```**saved**```' which points to
```**/boot/grub2/grubenv**``` file.
```

```
# Once finished, we have to run following command in order to re-
generate
# /boot/grub2/grub.cfg file:
```

grub2-mkconfig -o /boot/grub2/grub.cfg

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