## **Root User Password Reset**

In this tutorial, I will be demonstrating how to reset the root user's password on a CentOS 7 minimal install VM. Refer to the prerequisites listed below to access the resources needed to complete this tutorial.

## **Prerequisites**

VirtualBox VM with a CentOS 7 minimal installation

For instructions on how to install VirtualBox and extension pack, see my **VirtualBox Install** tutorial <a href="https://example.com/here">here</a>.

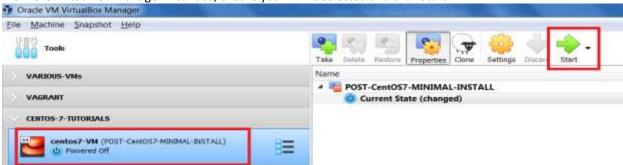
If you do not already have a virtual machine, with a minimal install of CentOS 7, my other tutorial is here.

## Steps to complete tutorial:

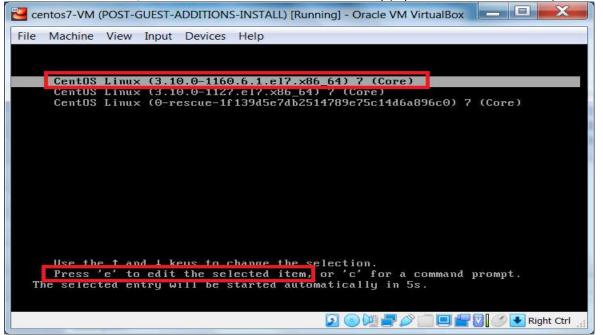
- 1. Start Virtual Machine
- 2. Edit GRUB Kernel Entry
- 3. Reset Password for Root User
- 4. Confirm Access To System

#### **Start Virtual Machine**

From the VirtualBox Manager interface, ensure your VM is selected and click Start

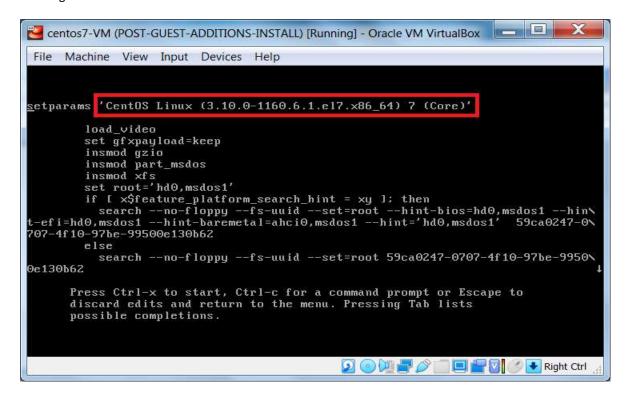


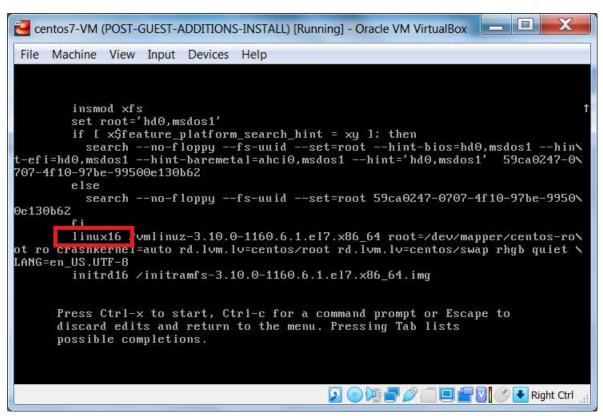
As soon as the VM starts, hit 'e' to edit the selected kernel menu entry (represents the newest kernel).



## **Edit GRUB Kernel Entry**

You will see the menu entry for the selected kernel. Using your keyboard's up/down keys, scroll down to the line that begins with 'linux16'.





Once you have located the line that begins with 'linux16', you will have to replace: ro with rw init=/sysroot/bin/sh

```
fi
linux16 /vmlinuz-3.10.0-1160.6.1.el7.x86_64 root=/dev/mapper/centos-ro\
ot ro crashkernel=auto rd.lvm.lv=centos/root rd.lvm.lv=centos/swap rhgb quiet \
LAng=en_US.UTF-8
    initrd16 /initramfs-3.10.0-1160.6.1.el7.x86_64.img

Press Ctrl-x to start, Ctrl-c for a command prompt or Escape to discard edits and return to the menu. Pressing Tab lists possible completions.

f1
    linux16 /vmlinuz-3 10.0-1160.6.1.el7.x86_64 root=/dev/mapper/centos-rw init=/sysroot/bin/sh crashkernel=auto rd.lvm.lv=centos/root rd.lvm.lv=centos/swap rngp quiet Lang=en_US.UTF-8
    initrd16 /initramfs-3.10.0-1160.6.1.el7.x86_64.img

Press Ctrl-x to start, Ctrl-c for a command prompt or Escape to discard edits and return to the menu. Pressing Tab lists possible completions.
```

Then, you will need to hit **Ctrl + x** to start the operating system in emergency mode, this is where we will reset the **root** user's password.

#### **Reset Password for Root User**

Once you are in emergency mode, enter the following commands (one after the other):

```
Generating "/run/initramfs/rdsosreport.txt"

Entering emergency mode. Exit the shell to continue.
Type "journalctl" to view system logs.
You might want to save "/run/initramfs/rdsosreport.txt" to a USB stick or /boot after mounting them and attach it to a bug report.

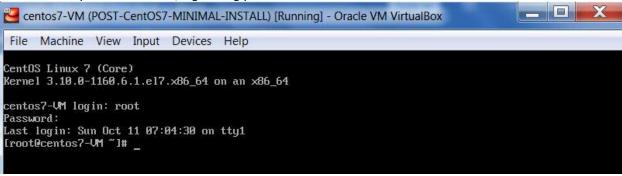
:/# chroot /sysroot
:/# passwd root

Changing password for user root.
New password:
BAD PASSWORD: The password fails the dictionary check - it is too simplistic/systematic Retype new password:
passwd: all authentication tokens updated successfully.
:/# touch /.autorelabel
:/# reboot -f_
```

After resetting the root user's password and notifying the SELinux subsystem to relabel the filesystem on reboot, you rebooted the system. You will now be able verify that the root user's password was successfully reset.

# **Confirm Access To System**

Now that the system has booted, login using your **root** user's credentials.



We have confirmed that we successfully reset the **root** user's password.

Hopefully, you've enjoyed completing this tutorial and found it helpful.

If you would like to see my other tutorials, they can be accessed <u>here</u>.

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