

Recover Evolved Programmable Network Manager Shell Password

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Introduction

This document describes the Linux root recovery method to recover the shell password.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Evolved Programmable Network Manager (EPNM)
- Access to the virtual machine that has the EPNM application on it

Components Used

The information in this document is based on these software and hardware versions:

- EPNM software version 5.0
- CentOS-7-x86_64-DVD-2009.iso image

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Procedure

Note: This process requires a Virtual Machine (VM) restart multiple times. Best to carry out this process in a planned maintenance window.

Step 1. Choose the CentOS-7-x86_64-DVD-2009.iso image to boot the machine.

Select ISO to Mount to VM

Mount an ISO to a VM

Choose Datastore: ISO

Choose ISO: - None -

Boot to this ISO? ⓘ

PLEASE NOTE: Your machine WILL BE REBOOT

- CentOS
- 01-CentOS-7-x86_64-Minimal-1804.iso
- CentOS-6.10-x86_64-bin-DVD1.iso
- CentOS-6.10-x86_64-bin-DVD2.iso
- CentOS-6.7-x86_64-LiveCD.iso
- CentOS-6.9-x86_64-bin-DVD1.iso
- CentOS-6.9-x86_64-bin-DVD2.iso
- CentOS-7-x86_64-DVD-1810.iso
- CentOS-7-x86_64-DVD-1908.iso
- CentOS-7-x86_64-DVD-2003.iso
- CentOS-7-x86_64-DVD-2009.iso**
- CentOS-7-x86_64-Everything-1802-01.iso
- CentOS-7-x86_64-Minimal-1708.iso
- CentOS-7-x86_64-Minimal-1804.iso
- CentOS-7-x86_64-Minimal-2003.iso
- CentOS-8-x86_64-1905-dvd1.iso
- CentOS-8.1.1911-x86_64-dvd1.iso
- CentOS-8.2.2004-x86_64-dvd1.iso
- CentOS-Stream-8-x86_64-20191219-dvd1.iso
- YY CentOS-7-x86_64-DVD-1810.iso

Step 2. Once booted, choose the troubleshooting option from the menu, and then choose Rescue a CentOS system.

Troubleshooting

Install CentOS 7 in basic graphics mode

Rescue a CentOS system

Run a memory test

Boot from local drive

Return to main menu

Press Tab for full configuration options on menu items.

Try this option out if you're having trouble installing CentOS 7.

Step 3. Choose the default options for language/keyboard and do not choose the network option.

Step 4. You see this message:

The rescue environment now attempts to find your Linux installation and mount it under the directory: /mnt/sysimage. You can then make any changes required to your system.

Choose '1' to process with this step. You can choose to mount your file systems read-only instead of read-write by choosing '2'.

If for some reason this process does not work choose '3' to skip directly to a shell.

Choose Continue on the screen, as shown in this image.

```
Starting installer, one moment...
anaconda 21.48.22.159-1 for CentOS 7 started.
 * installation log files are stored in /tmp during the installation
 * shell is available on TTY2
 * if the graphical installation interface fails to start, try again with the
   inst.text bootoption to start text installation
 * when reporting a bug add logs from /tmp as separate text/plain attachments
=====
Rescue

The rescue environment will now attempt to find your Linux installation and
mount it under the directory : /mnt/sysimage. You can then make any changes
required to your system. Choose '1' to proceed with this step.
You can choose to mount your file systems read-only instead of read-write by
choosing '2'.
If for some reason this process does not work choose '3' to skip directly to a
shell.

 1) Continue
 2) Read-only mount
 3) Skip to shell
 4) Quit (Reboot)

Please make a selection from the above: 1

[anaconda] 1:main* 2:shell 3:log 4:storage-log 5:program-log  Switch tab: Alt+Tab | Help: F1
```

Step 5. Once the current installation is found, it mounts to the `/mnt/sysimage` location and you are dropped to the command prompt.

```
Please make a selection from the above: 1
=====
Rescue Mount

Your system has been mounted under /mnt/sysimage.

If you would like to make your system the root environment, run the command:

    chroot /mnt/sysimage
Please press <return> to get a shell.
[anaconda] 1:main* 2:shell 3:log 4:storage-log 5:program-log  Switch tab:
```

Step 6. Change root to the PI install location with this command:

```
# chroot /mnt/sysimage
```

```
Please make a selection from the above: 1
=====
Rescue Mount

Your system has been mounted under /mnt/sysimage.

If you would like to make your system the root environment, run the command:

    chroot /mnt/sysimage
Please press <return> to get a shell.
When finished, please exit from the shell and your system will reboot.
sh-4.2# chroot /mnt/sysimage
bash-4.2#
[anaconda] 1:main* 2:shell 3:log 4:storage-log 5:program-log  Switch tab: Alt+Tab | Help: F1
```

Step 7. Move the `/storedconfig/rootpatchpw` file with this command:

```
#mv /storedconfig/rootpatchpw /root/
```

```
If you would like to make your system the root environment, run the command:

    chroot /mnt/sysimage
Please press <return> to get a shell.
When finished, please exit from the shell and your system will reboot.
sh-4.2# chroot /mnt/sysimage
bash-4.2# mv /storedconfig/rootpatchpw /root/
bash-4.2#
[anaconda] 1:main* 2:shell 3:log 4:storage-log 5:program-log  Switch tab: Alt+Tab | Help: F1
```

Step 8. Type `exit` and click the Enter key.

Step 9. Then, type the `reboot` command, as shown in this image.

```
    chroot /mnt/sysimage
Please press <return> to get a shell.
When finished, please exit from the shell and your system will reboot.
sh-4.2# chroot /mnt/sysimage
bash-4.2# mv /storedconfig/rootpatchpw /root/
bash-4.2# exit
exit
sh-4.2# reboot
[anaconda] 1:main* 2:shell 3:log 4:storage-log 5:program-log  S
```

Step 10. Once the system reboots, select the `Troubleshooting` option again, and this time select `Boot from local drive` so it boots the EPNM application.

Note: If it brings you back to the CentOS menu, select `Boot from local drive` again and retry.

Troubleshooting

Install CentOS 7 in basic graphics mode
Rescue a CentOS system
Run a memory test

Boot from local drive

Return to main menu

Press Tab for full configuration options on menu items.

Once EPNM is back up and running, you can use the `shell` command and it prompts you to set the shell password.

```
Shell access password is not set  
Configure password for shell access  
Password : █
```