

Practical No. 05

Aim: Recover root password

Output:

```
GNU GRUB version 2.04
Bootable, with Linux 5.13.0-39-generic
Bootable, with Linux 5.13.0-39-generic (recovery mode)
Bootable, with Linux 5.13.0-39-generic
Bootable, with Linux 5.13.0-39-generic (recovery mode)

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.
```

GNU GRUB

```
Recovery Menu (filesystem state: read-only)

clean          Try to make free space
dpkg           Repair broken packages
fsck           Check all file systems
grub           Update grub bootloader
network        Enable networking
root           Drop to root shell prompt
system-summary System summary

<Ok>
```

Recovery Menu

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Theory:

Step 1: Boot to Recovery Mode:

Restart your system. Once you see the splash screen for computer manufacturer, hold down the 'SHIFT' key. The system should come up with a black and white GRUB, or boot menu. With different Linux kernel versions displayed.

Select the second one from the top - the highest revision, followed by (recovery mode). Press Enter.

Step 2: Drop out to Root shell.

The system should display a menu with different boot options. Use the arrow keys to navigate to the option labeled root and press ENTER.

The system should respond by giving you a command line interface with a prompt.

Step 3: Remount the file system with write-permissions:

Right now, your system only has read only access to your system. That means it can look at the data, but cannot make any changes. But we need write-access to change the password, so we will need to remount the drive with appropriate permissions.

At the prompt, type:

```
mount -o rw, remount /
```

Press ENTER. This should allow you to make changes to the data on the

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grub Update grub bootloader
network Enable networking
root GRUB -> RECOVERY MODE
system-summary System summary

<OK>

Press Enter for maintenance
(or press Control-D to continue):

Root Shell

Press Enter for maintenance
(or press Control-D to continue):
root@ubuntu:~# mount -o rw,remount/
mount: bad usage
Try 'mount --help' for more information.
root@ubuntu:~# mount -o rw, remount/
mount: remount/: can't find in /etc/fstab.
root@ubuntu:~# mount -o rw,remount /
root@ubuntu:~# _

mount -o rw,remount /

root@ubuntu:~# passwd dhondpratay
New password:
Retype new password:
passwd: password updated successfully
root@ubuntu:~# shutdown -r

Changing password

Conclusion:

Hence, I recovered the root password using the GRUB → recovery mode.

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hard drive.

Step 4: Change the password

At the prompt, type:

`sha passwd username`

Substitute the name of the user for username then press ENTER.

The system asks you to type a new UNIX password and then to retype it.

Once you've entered and confirmed the new password, reboot the system by entering the following:

`shutdown -r`

Hit ENTER, and your system should restart. Don't press any keys, let the system come up to the login screen, and test to make sure the new password works.

Conclusion:

Hence, I recovered the root password using the GRUB → recovery mode.

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