Ganpat University Faculty of Engineering & Technology Computer Science & Engineering (2CSE204) Basics of Operating System and Shell Scripting Institute of Computer And Technology

B.Tech - CSE(BDA)

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Sem:- 2

Sub: - BOSS

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Prac:- 1

Date:- 15/2/2024

Practical 1

1. From student user, change the user to root and identify which user is currently logged in?

Commands:-

[ddesai@localhost ~]\$ whoami

ddesai

[ddesai@localhost ~]\$ su - root

Password:

[root@localhost ~]#

Screenshorts:-

```
File Edit View Search Terminal Help

[ddesai@localhost ~]$ whoami

ddesai

[ddesai@localhost ~]$ su - root

Password:

[root@localhost ~]#
```

2. Display current date and time in following format: dd/mm/yyyy-hh:mm:ss

Commands:-

[ddesai@localhost ~]\$ date Thu Feb 15 05:57:27 EST 2024 [ddesai@localhost ~]\$

Screenshorts:-



3. Using multiple commands in one line only, display current month name in full and day in abbreviated format.

Commands:-

[ddesai@localhost ~]\$ echo -e "\e[34m\$(date "+%B") \e[0m\e[32m\$(date "+%a")\e[0m"

February Thu

[ddesai@localhost ~]\$

Screenshorts:-

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```

4. Display first 4 lines of /etc/yum.repos.d/rhel_dvd.repo file

Commands:-

head -n 4 /etc/yum.repos.d/rhel_dvd.repo

Screenshorts:-

```
[root@workstation ~]# head -n 4 /etc/yum.repos.d/rhel_dvd.repo
[rhel-8.2-for-x86_64-baseos-rpms]
baseurl = http://content.example.com/rhel8.2/x86_64/dvd/BaseOS
enabled = true
gpgcheck = false
[root@workstation ~]#
[root@workstation ~]#
```

5. Display last 5 lines of /etc/yum.repos.d/rhel_dvd.repo file

Commands:-

tail -n 5 /etc/yum.repos.d/rhel_dvd.repo

Screenshorts:-

```
[root@workstation ~]# tail -n 5 /etc/yum.repos.d/rhel_dvd.repo
[rhel-8.2-for-x86_64-appstream-rpms]
baseurl = http://content.example.com/rhel8.2/x86_64/dvd/AppStream
enabled = true
gpgcheck = false
name = Red Hat Enterprise Linux 8.2 AppStream (dvd)
[root@workstation ~]#
```

6. How many bytes are occupied by /var/log/secure file?

Commands:-

[root@localhost ~]# wc --c /var/log/secure

9623 /var/log/secure

[root@localhost ~]#

Screenshorts:-

```
root@localhost- ×

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[root@localhost ~]# wc --c /var/log/secure

9623 /var/log/secure

[root@localhost ~]# ■
```

7. How many lines of content is present in /etc/shadow file?

Commands:-

[root@localhost ~]# wc -l /etc/shadow

45 /etc/shadow

[root@localhost ~]#

Screenshorts:-

```
root@localhost:- x

Ele Edit View Search [erminal Help
[root@localhost ~]# wc -l /etc/shadow
45 /etc/shadow
[root@localhost ~]#
```

8. List all the commands executed by you so far and execute the 10th command.

Commands:-

- 1 whoami
- 2 date
- 3 su student
- 4 su ddesai
- 5 head -n 4 /etc/yum.repos.d/rehel_dvd.repo

- 6 Is -I /var/log/secure
- 7 wc --c /var/log/secure
- 8 wc --c /var/log/secure
- 9 wc -l /var/shadow
- 10 wc -l /etc/shadow

Screenshorts:-

9. Display the contents of /var/log/secure file.

Commands:-

[root@localhost ~]# cat /var/log/secure

Screenshorts:-

```
[roote]calhost -]# cat /var/log/secure
Feb 8 06:55:16 localhost polkitd[857]: Loading rules from directory /etc/polkit-1/rules.d
Feb 8 06:55:16 localhost polkitd[857]: Loading rules from directory /usr/share/polkit-1/rules.d
Feb 8 06:55:16 localhost polkitd[857]: Loading rules from directory /usr/share/polkit-1/rules.d
Feb 8 06:55:16 localhost polkitd[857]: Loading rules from directory /usr/share/polkit-1/rules.d
Feb 8 06:55:16 localhost polkitd[857]: Acquired the name org.freedesktop.PolicyKit1 on the system bus
Feb 8 06:55:16 localhost polkitd[857]: Acquired the name org.freedesktop.PolicyKit1 on the system bus
Feb 8 06:55:20 localhost sshd[1133]: Server listening on 0:0.0.0 port 22.
Feb 8 06:55:20 localhost sshd[133]: Server listening on :: port 22.
Feb 8 07:00:41 localhost useradd[6321]: new user: name=ddesai, GID=1000
Feb 8 07:00:41 localhost useradd[6321]: new user: name=ddesai, GID=1000
Feb 8 07:00:41 localhost useradd[6321]: new user: name=ddesai, GID=1000, home=/home/ddesai, shell=/bin/bash
Feb 8 07:00:41 localhost systemd[6336]: pam_unix(systemd-user:session): session opened for user gdm by (uid=0)
Feb 8 07:00:41 localhost systemd[6386]: pam_unix(systemd-user:session): session opened for user db by (uid=0)
Feb 8 07:00:52 localhost polkitd[857]: Registered Authentication Agent for unix-session:: (system bus name :1.09 [/usr/bin/gnome-shell], ob ject path /org/freedesktop/PolicyKit1/AuthenticationAgent, locale en US.UTF-8)
Feb 8 07:01:09 localhost systemd[6738]: pam_unix(systemd-user:session): session opened for user ddesai by (uid=0)
Feb 8 07:01:19 localhost polkitd[857]: Registered Authentication Agent for unix-session:: failed to release session: Interrupted system acll
Feb 8 07:01:10 localhost gdm-launch-environment][6380]: pam_systemd[dgm-launch-environment:session): session closed for user gdm
Feb 8 07:01:10 localhost gdm-launch-environment][6380]: pam_systemd[dgm-launch-environment:session: (system bus name :1.248 [/usr/bin/gnome-shell], ob ject path /org/freedesktop/PolicyKit1/AuthenticationAgen
```

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Teb 13 12:02:40 localhost suj8017; pam_unix(su-lisession); session closed for user ddesai feb 13 12:02:40 localhost suj8017; pam_unix(su-lisession); session closed for user ddesai feb 13 12:02:40 localhost suj8017; pam_unix(su-lisession); session closed for user ddesai feb 13 12:02:40 localhost suj8017; pam_unix(su-lisession); session closed for user ddesai feb 13 12:02:40 localhost suj8017; pam_unix(su-lisession); session closed for user ddesai feb 13 10:02:40 localhost polktid(807); Loading rules from directory /etc/polkti-l/rules desai feb 14 06:39:45 localhost polktid(807); Loading rules from directory /etc/polkti-l/rules desai feb 14 06:39:45 localhost polktid(807); Loading rules from directory /etc/polkti-l/rules desai feb 14 06:39:45 localhost polktid(807); Loading rules from directory /etc/polkti-l/rules desai feb 14 06:39:45 localhost polktid(807); Loading rules from the super discount feb 14 06:39:45 localhost solktid(807); Loading rules from the super discount feb 14 06:39:45 localhost solktid(807); Loading rules from the super feb 14 06:39:45 localhost solktid(807); Registered Authentication Agent for unix-session; and pend for user gdm by (uide0) feb 14 06:49:42 localhost gdm-password local Authentication Agent for unix-session; (system bus name: 1.56 [/usr/bin/gnome-shell], object path /org/fredesktop/plicyktil/AuthenticationAgent for unix-session; (system bus name: 1.56 [/usr/bin/gnome-shell], object path /org/fredesktop/plicyktil/AuthenticationAgent for unix-session; (system bus name: 1.56 [/usr/bin/gnome-shell], object path /org/fredesktop/plicyktil/AuthenticationAgent for unix-session; (system bus name: 1.56 [/usr/bin/gnome-shell], object path /org/fredesktop/plicyktil/AuthenticationAgent for unix-session; (system bus name: 1.56 [/usr/bin/gnome-shell], object unix-session] (system bus name: 1.56 [/usr/bin/gnome-shell], object unix-session] (system bus name: 1.56 [/usr/bin/quome-shell], object unix-session] (system bus name: 1.56 [/usr/bin/quome-shell], object unix-session] (system bus name: 1.
```

```
reb 15 04:14:45 localhost systemd[2298]: pam_unix(systemd-user:session): session opened for user ddesai by (uid=0)
Feb 15 04:14:45 localhost systemd[2298]: pam_unix(systemd-user:session): session opened for user ddesai by (uid=0)
Feb 15 04:14:45 localhost gdm-password][2284]: pam_unix(gdm-password:session): session opened for user ddesai by (uid=0)
Feb 15 04:14:53 localhost polkitd[855]: Registered Authentication Agent for unix-session:2 (system bus name :1.225 [/usr/bin/gnome-shell], object path /org/freedesktop/PolicyKit1/AuthenticationAgent, locale en US.UTF-8)
Feb 15 04:14:57 localhost gdm-launch-environment][1146]: pam_systemd[gdm-launch-environment:session): Failed to release session: Interrupted system call
Feb 15 04:14:57 localhost gdm-launch-environment][1146]: pam_unix(gdm-launch-environment:session): session closed for user gdm
Feb 15 04:15:04 localhost polkitd[855]: Unregistered Authentication Agent for unix-session:cl (system bus name :1.56, object path /org/freedesktop/PolicyKit1/AuthenticationAgent, locale en US.UTF-8) (disconnected from bus)

sktop/PolicyKit1/AuthenticationAgent, locale en US.UTF-8)
```