Placement Empowerment Program

Cloud Computing and DevOps Centre

60 Days of DevOps Challenge

Day 1: Linux Basics - Commands, File System & Permissions

Name: VIJAYA NANDANA M   *Department: CSE*

This Proof of Concept (PoC) demonstrates the Linux Basics - Commands, File System & Permissions.

Challenge 1: List all files (including hidden ones) in your home directory and sort them by modification time.

Challenge 2: Create a directory named devops_challenge_day_1, navigate into it, and create an empty file named day1.txt.

Challenge 3: Change the permissions of day1.txt to allow only the owner to read and write, but no permissions for others.

Using *chmod 600 day1.txt*

Challenge 4: Find all files in /etc that were modified in the last 7 days.

```
nandana@nandana-007:~/devops_challenge$ find /etc -type f -mtime -7
/etc/netplan/90-NM-941cffb5-1343-4083-a345-6397410374cf.yaml
/etc/netplan/90-NM-45ee05f9-ca71-47c2-82a8-5681e9d85983.yaml
find: '/etc/credstore': Permission denied
/etc/cups/subscriptions.conf.0
find: '/etc/cups/ssl': Permission denied
/etc/cups/subscriptions.conf
find: '/etc/ssl/private': Permission denied
find: '/etc/credstore.encrypted': Permission denied
find: '/etc/polkit-1/rules.d': Permission denied
nandana@nandana-007:~/devops_challenge$
```

Challenge 5: Write a one-liner command to find the most frequently used command in your shell history.

```
nandana@nandana-007:~/devops_challenge$ history | awk '{CMD[$2]++;} END {for (a in CMD) print CMD[a], a;}' | sort -nr | head -1
29 cd
nandana@nandana-007:~/devops_challenge$
```