Daily Activities of a Linux Administrator

System Health Monitoring

Activity: Check CPU usage

Command: top -o %CPU

Purpose: Monitor high CPU usage processes

Activity: Check RAM usage

Command: free -m

Purpose: Monitor available/free memory

Activity: Check disk usage

Command: df -h

Purpose: Verify disk space utilization

Activity: Check running services

Command: systemctl list-units --type=service --state=running

Purpose: Ensure critical services are running

User & Access Management

Activity: View active users

Command: w / who -a

Purpose: Check logged-in users

Activity: Check failed logins

Command: grep 'Failed password' /var/log/secure

Purpose: Identify unauthorized login attempts

Activity: Add new user

Command: useradd -m username

Purpose: Create a new user account

Backup & Recovery

Activity: Check existing backups

Command: ls -lh /backup/

Purpose: Verify that backups exist

Activity: Create manual backup

Command: tar -czvf /backup/home-$(date +%F).tar.gz /home/

Purpose: Backup /home directory

Activity: Restore from backup

Command: tar -xzvf /backup/home-2024-03-13.tar.gz -C /restore/

Purpose: Extract files from backup

Network & Security

Activity: View network interfaces

Daily Activities of a Linux Administrator

Command: ip a

Purpose: Display current network settings

Activity: Check default gateway

Command: ip route show

Purpose: Verify network routing

Activity: View firewall rules

Command: firewall-cmd --list-all

Purpose: Check active firewall policies

System Updates & Patch Management

Activity: Check available updates

Command: dnf check-update / yum check-update

Purpose: See if security updates are available

Activity: Install updates

Command: dnf update -y

Purpose: Keep the system patched and secure

Service & Application Management

Activity: Check service status

Command: systemctl status httpd

Purpose: Ensure Apache is running properly

Activity: Restart failed services

Command: systemctl restart network

Purpose: Fix service failures

Automation & Scripting

Activity: View scheduled cron jobs

Command: crontab -l

Purpose: Check automated tasks

Activity: Add a new cron job

Command: crontab -e (0 0 * * * /usr/bin/backup.sh)

Purpose: Schedule a daily backup

Documentation & Reporting

Activity: Generate system reports

Command: df -h > /root/disk_report.txt

Purpose: Store disk usage details in a file

Activity: Record daily issues

Command: echo 'Network down issue fixed' >> /var/log/admin_notes.txt

Daily Activities of a Linux Administrator

Purpose: Maintain logs for troubleshooting