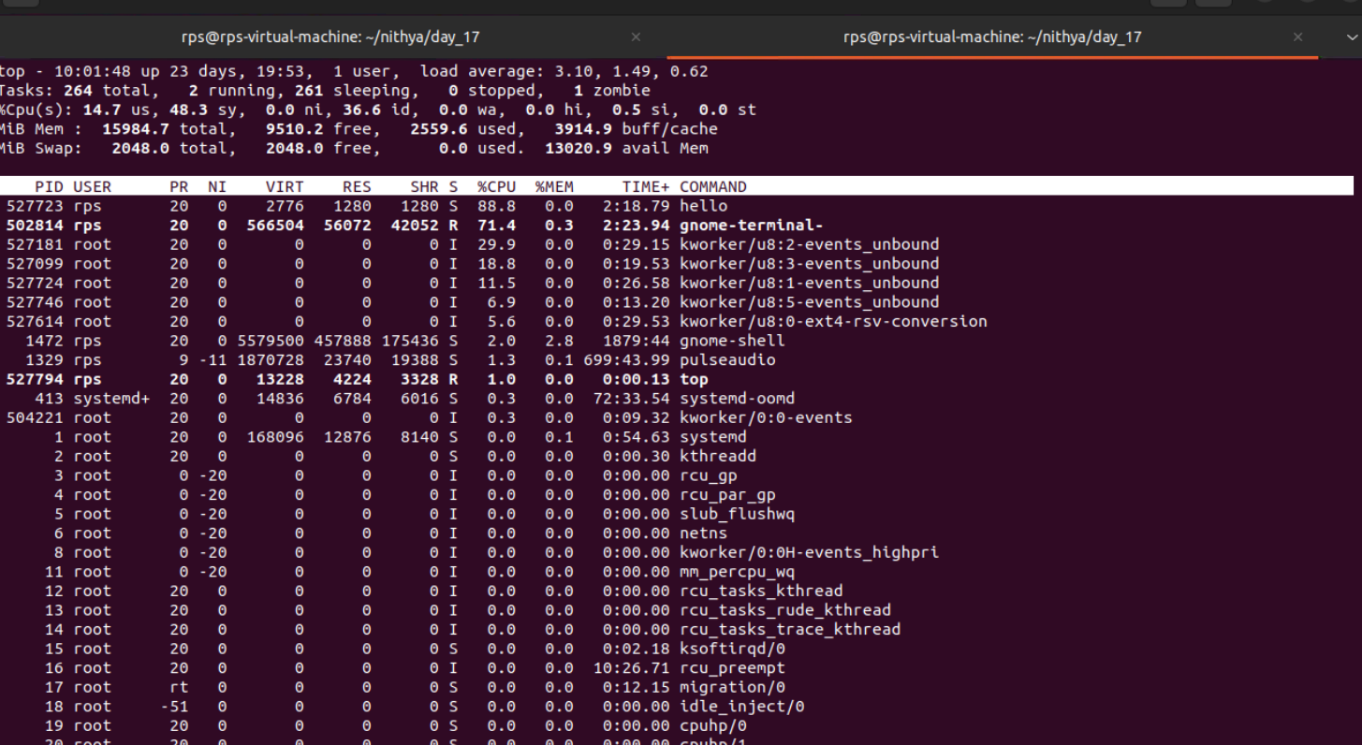
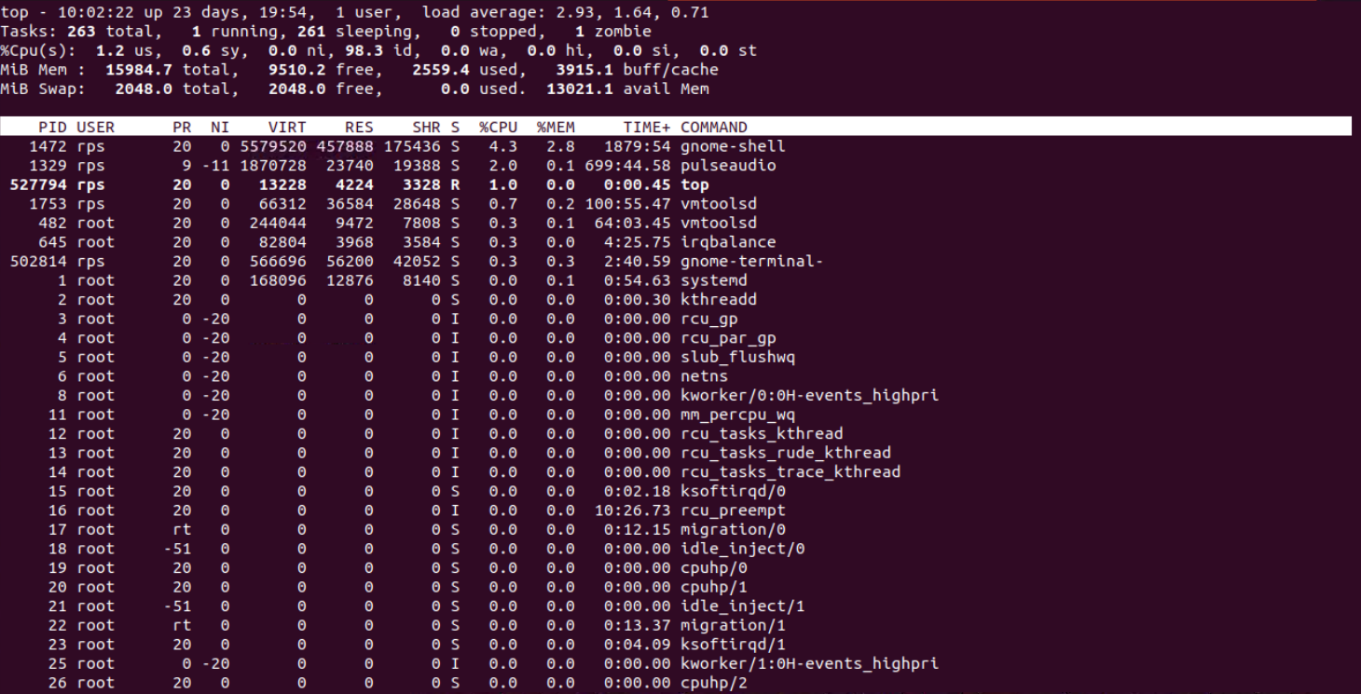
Day-19:

Task

Top command : check process is running or not

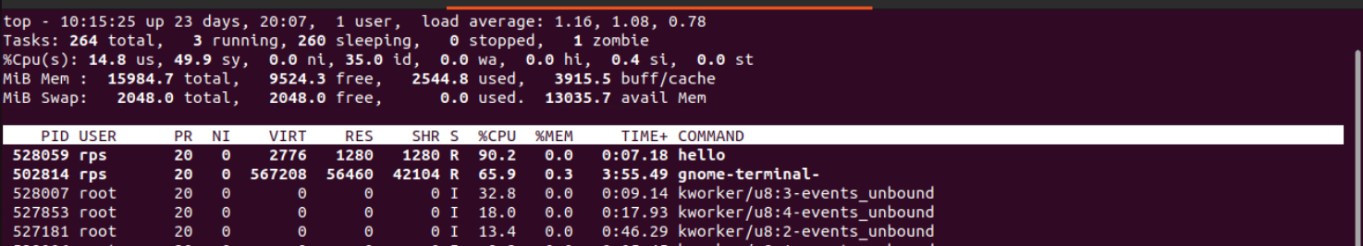


After process stop



Kill command to stop the process

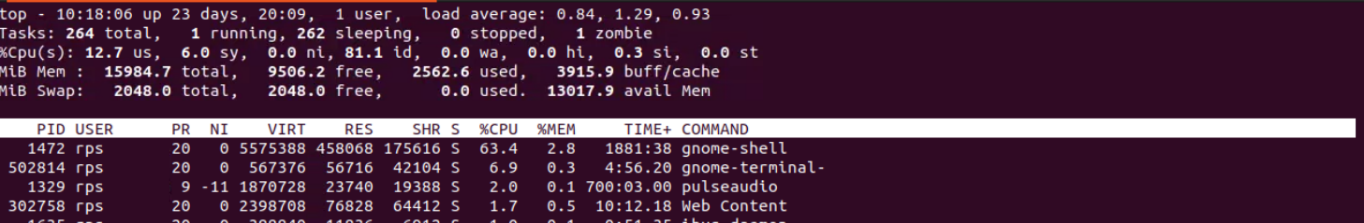
Before kill the process



Killing process

Capture2.PNG

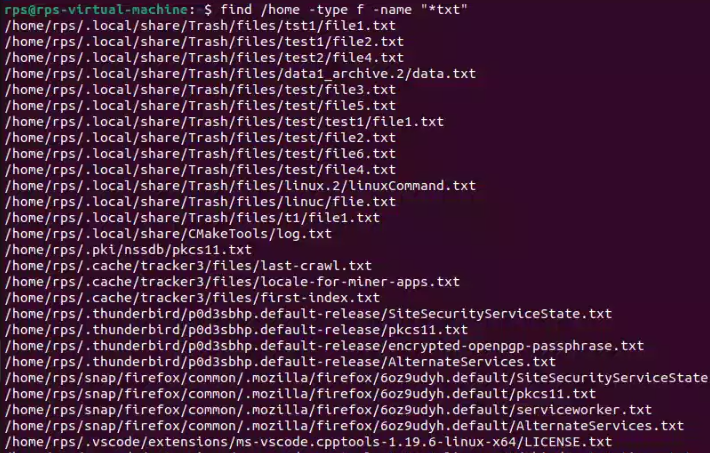
After kill the process



### Commands

**File Search**:  
Write a command to find all files with the extension .txt in the /home directory and its subdirectories.

find /home -type f -name "\*.txt"



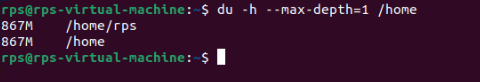
**File Permissions**:  
Write a command to change the permissions of all files in the /var/log directory to 644.

find /var/log -type f -execchmod 644 {} \;

Capture2.PNG

**Disk Usage**:  
Write a command to display the disk usage of all directories in the /home directory in a human-readable format.

du -h --max-depth=1 /home



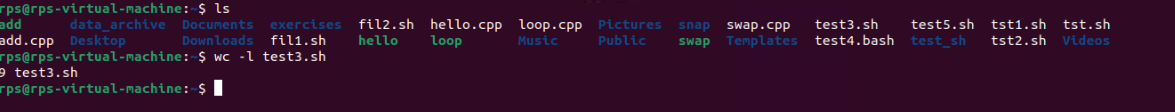
**Process Management**:  
Write a command to list all running processes that contain the name "apache" in their command line.

ps aux | grep apache

Capture4.PNG

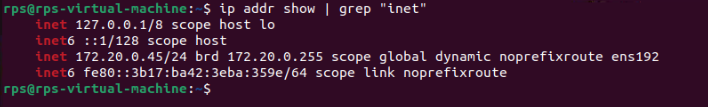
**Text Processing**:  
Write a command to count the number of lines in a file named error.log.

wc -l error.log



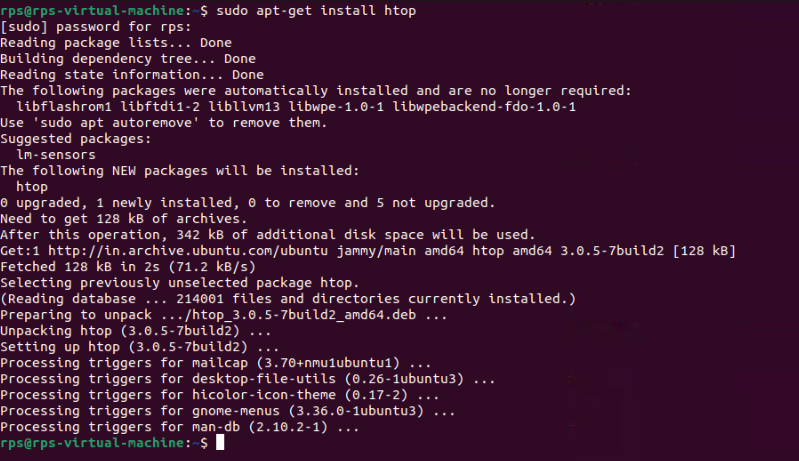
**Network Configuration**:  
Write a command to display the IP address of all network interfaces on the system.

ipaddr show | grep "inet "



**Package Management**:  
Write a command to install a package named htop using the package manager.

sudo apt-get install htop



**User Management**:  
Write a command to add a new user named developer to the system.

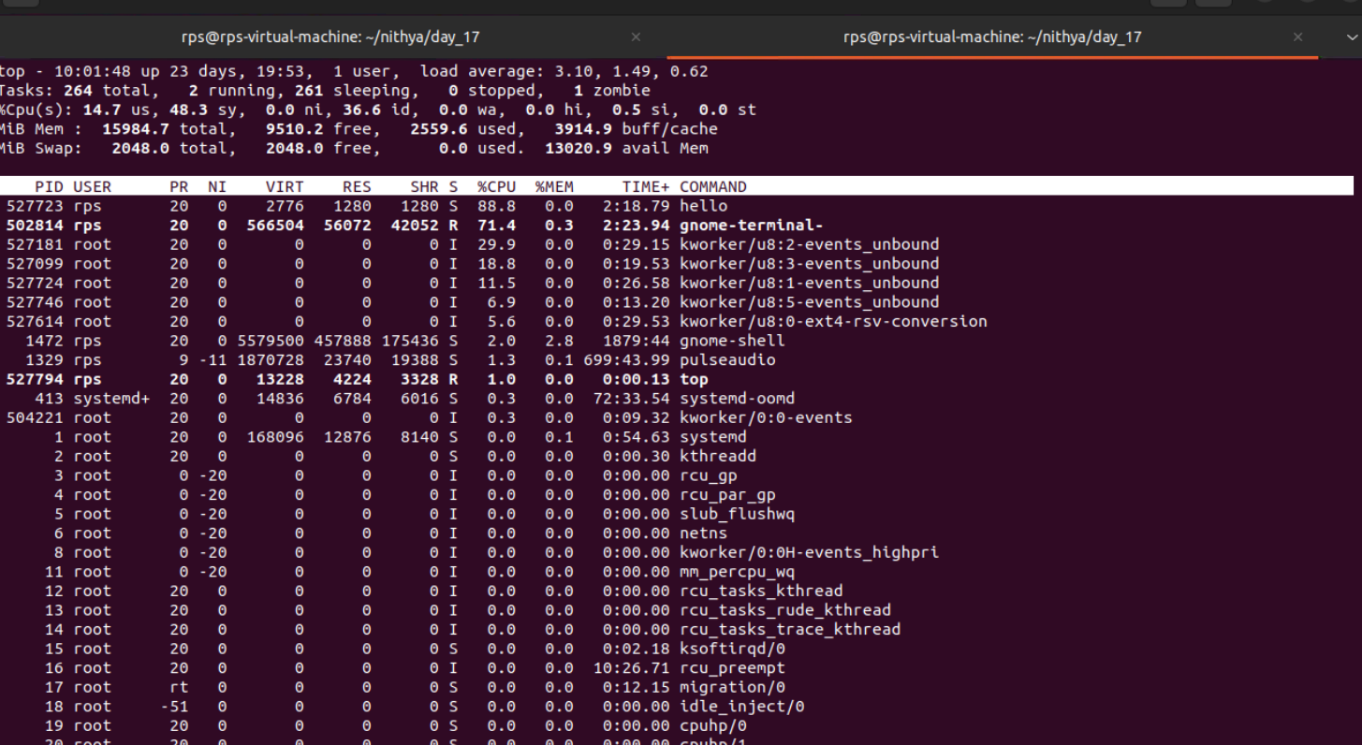
Sudo useradd developer

**File Compression**:  
Write a command to compress a directory named backup into a .tar.gz file.

tar -czvf backup.tar.gz backup

**System Monitoring**:  
Write a command to display real-time system resource usage, including CPU, memory, and disk I/O.

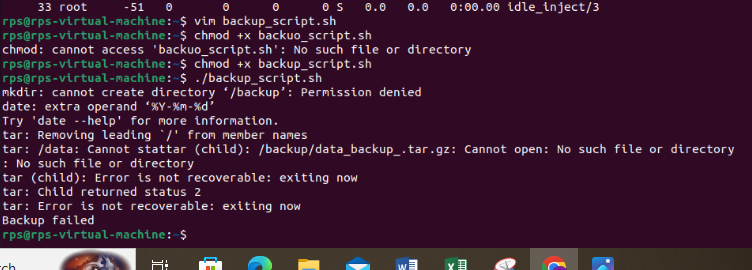
Top



Shell Scripts

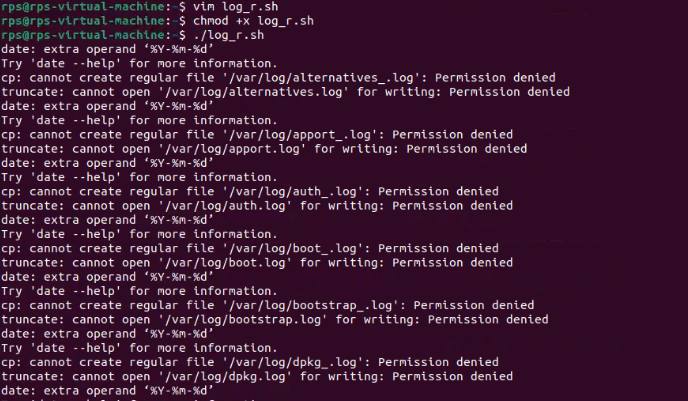
Backup Script:

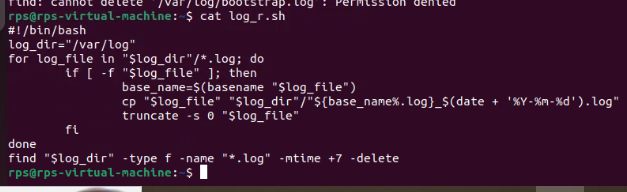
Write a shell script to back up a directory named /data to /backup with the current date appended to the backup file name.



Log Rotation:

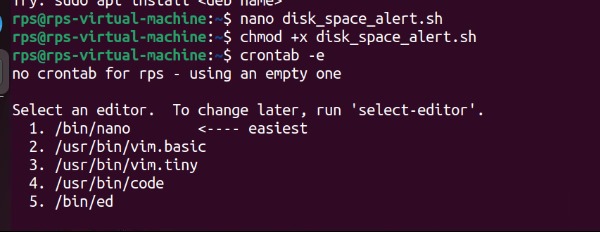
Write a shell script to rotate log files in the /var/log directory, keeping only the last 7 days of logs.

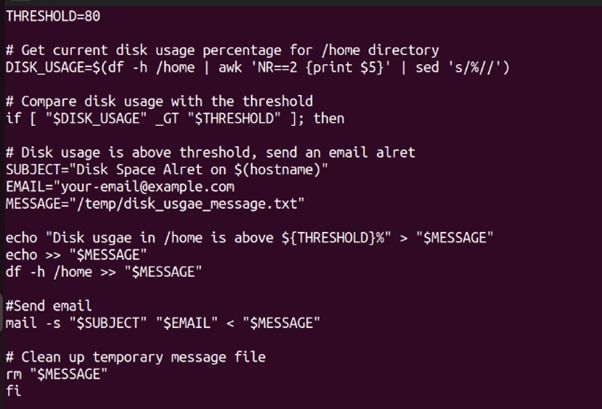


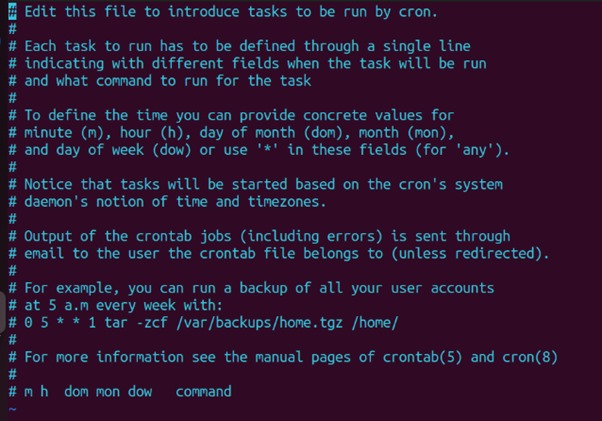


Disk Space Alert:

Write a shell script to check the disk usage of the /home directory and send an email alert if the usage exceeds 80%.

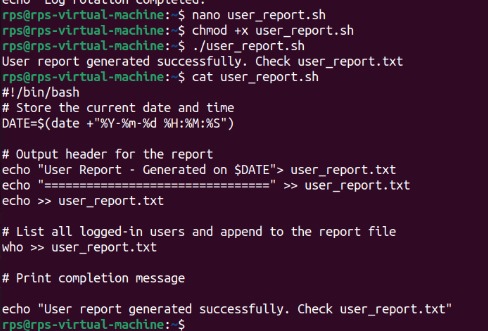






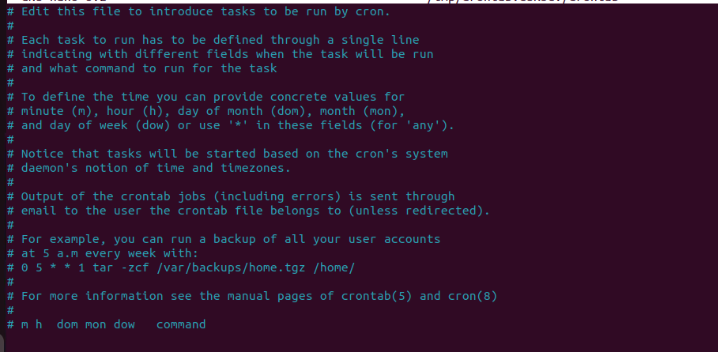
User Report:

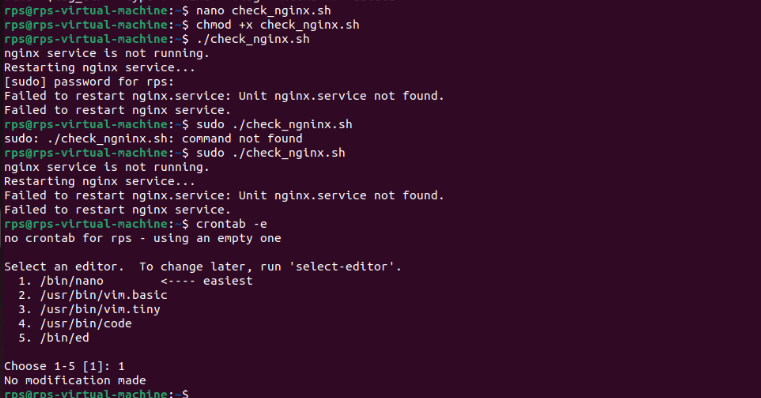
Write a shell script to generate a report of all users currently logged into the system and save it to a file named user\_report.txt.



Service Monitor:

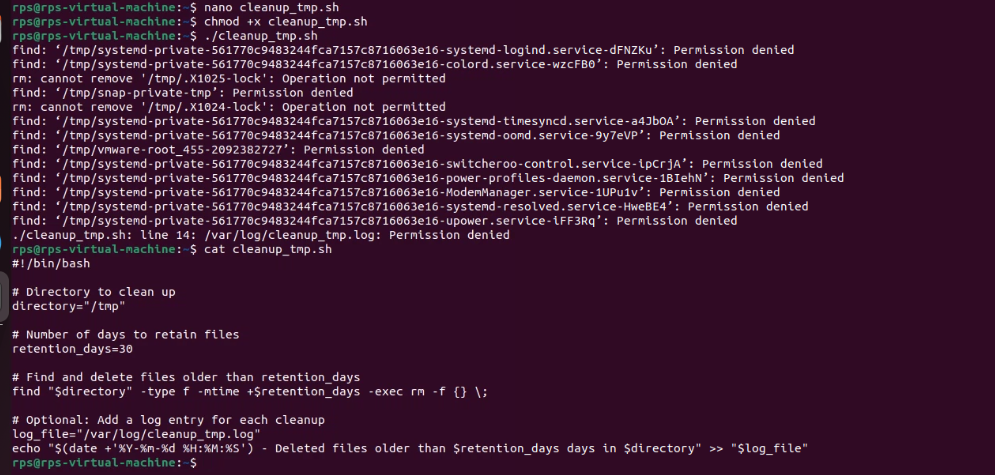
Write a shell script to check if the nginx service is running and restart it if it is not.





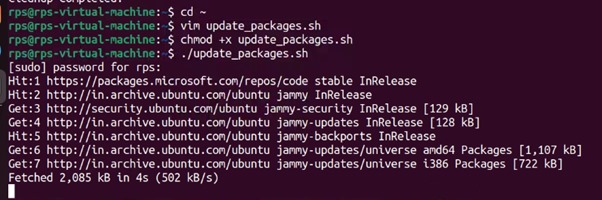
File Cleanup:

Write a shell script to delete all files older than 30 days in the /tmp directory.



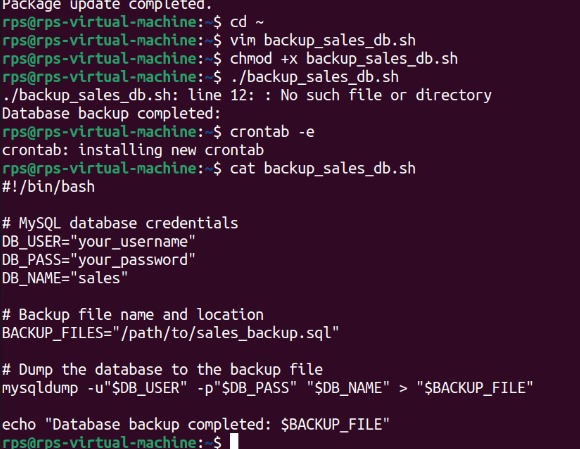
Automated Updates:

Write a shell script to automatically update all installed packages on the system.



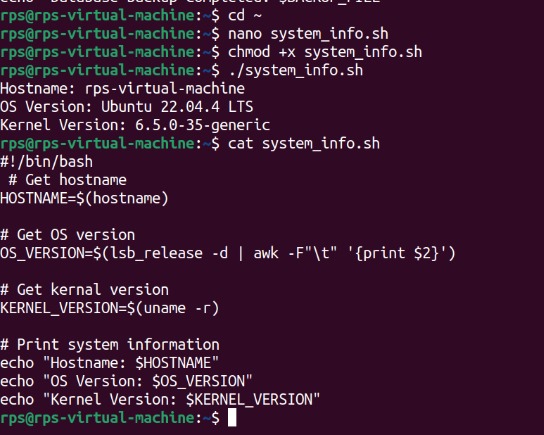
Database Backup:

Write a shell script to back up a MySQL database named sales to a file named sales\_backup.sql.



System Information:

Write a shell script to display system information, including hostname, OS version, and kernel version.



Cron Job:

Write a shell script to schedule a cron job that runs a specific command every day at midnight.

