Kevin Koreth

Task 3: Backup Configuration for Web Servers

Objective: Configure automated backups for Sarah’s Apache server and Mike’s Nginx server to ensure data integrity and recovery.

Steps:

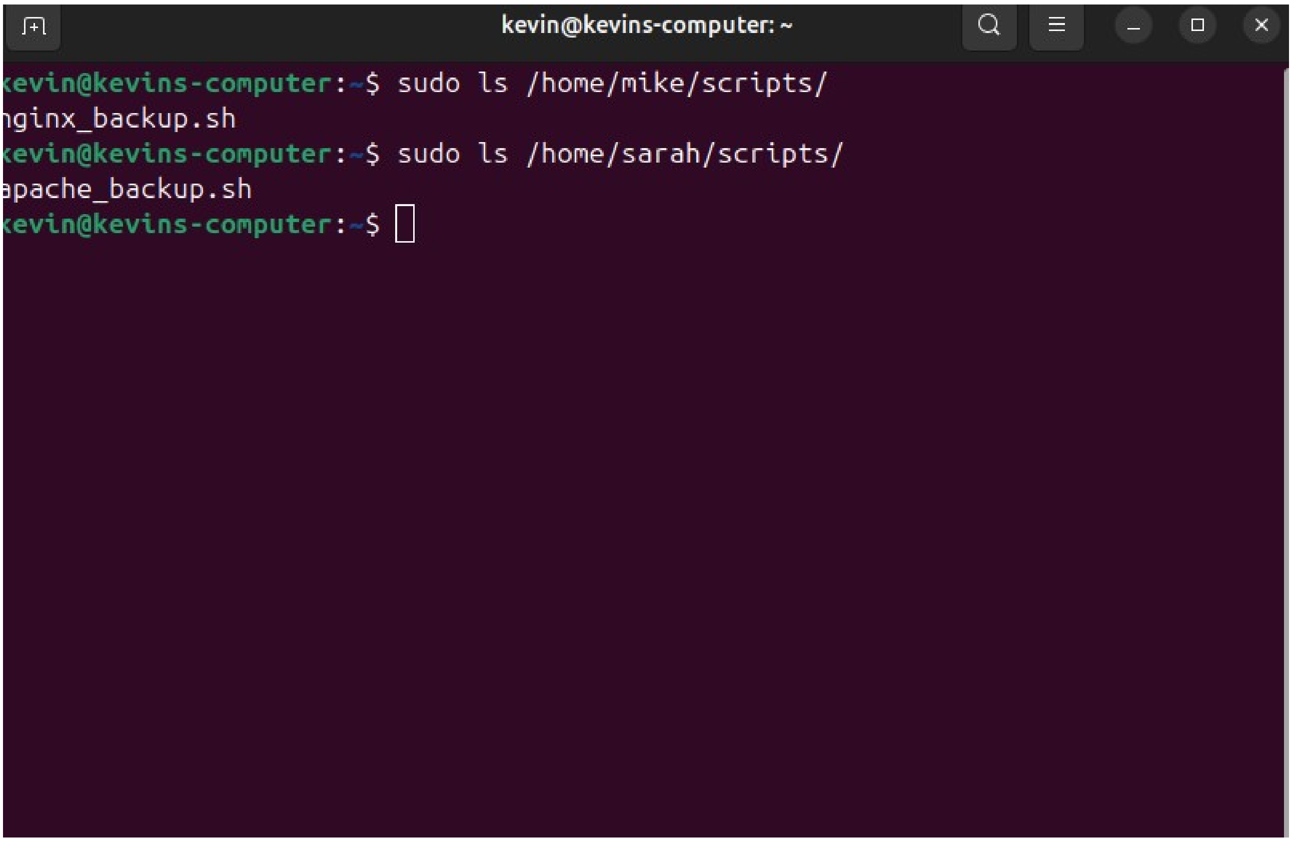
A. **Clone the repository**

   - Clone the git repository : git clone https://github.com/KevinKoreth/monitoring_scripts.git

B. **Copy the scripts**

   - For Sarah’s Apache backups copy scripts/apache_backup.sh to /home/sarah/scripts/apache_backup.sh

   - For Mike’s nginx backup copy scripts/nginx_backup.sh to /home/mike/scripts/nginx_backup.sh



```
kevin@kevins-computer:~$ sudo ls /home/mike/scripts/
nginx_backup.sh
kevin@kevins-computer:~$ sudo ls /home/sarah/scripts/
apache_backup.sh
kevin@kevins-computer:~$ 
```

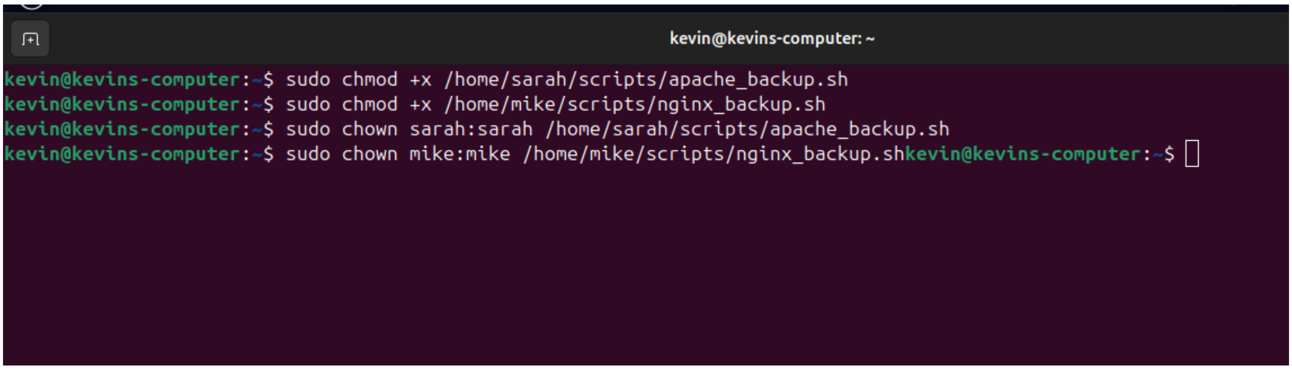
   - Make the scripts executable and give appropriate permissions

     Commands :

     sudo chmod +x /home/sarah/scripts/apache_backup.sh

     sudo chmod +x /home/mike/scripts/nginx_backup.sh sudo chown sarah:sarah /home/sarah/scripts/apache_backup.sh

sudo chown mike:mike /home/mike/scripts/nginx_backup.sh



```
kevin@kevins-computer:~$ sudo chmod +x /home/sarah/scripts/apache_backup.sh
kevin@kevins-computer:~$ sudo chmod +x /home/mike/scripts/nginx_backup.sh
kevin@kevins-computer:~$ sudo chown sarah:sarah /home/sarah/scripts/apache_backup.sh
kevin@kevins-computer:~$ sudo chown mike:mike /home/mike/scripts/nginx_backup.shkevin@kevins-computer:~$ 
```

C. Configure cron jobs

1. For Sarah's Apache server:

Command: (crontab -u sarah -l 2>/dev/null; echo "0 0 * * 2 /home/sarah/scripts/apache_backup.sh") | sudo crontab -u sarah -

2. For Mike's nginx server:

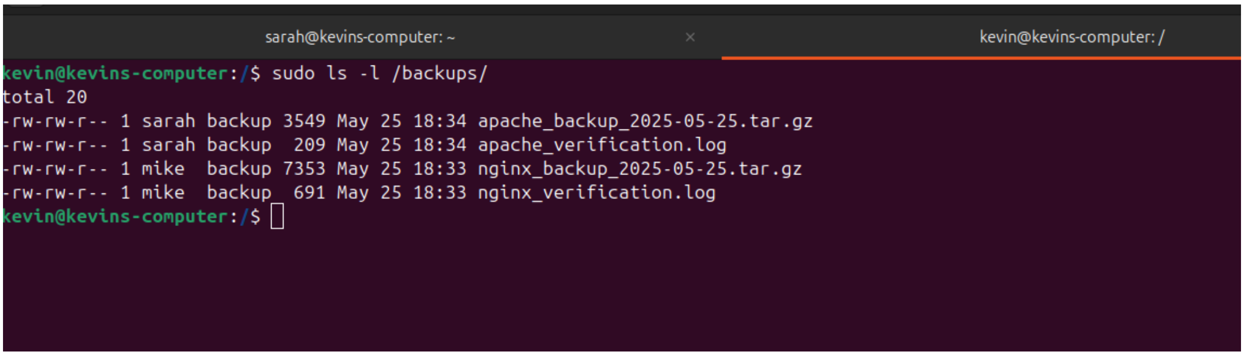
Command: (crontab -u mike -l 2>/dev/null; echo "0 0 * * 2 /home/mike/scripts/nginx_backup.sh") | sudo crontab -u mike -

D. Verify setup

Run the following commands to verify the setup:

1. Commands:

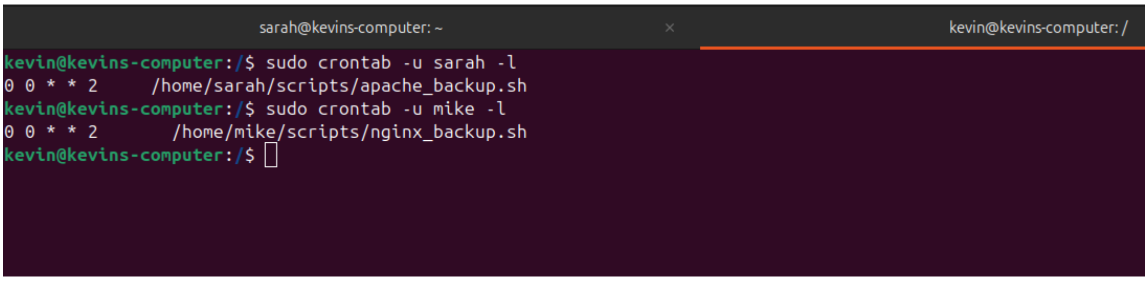
   a. sudo ls -l /backups



```
kevin@kevins-computer:/$ sudo ls -l /backups/
total 20
-rw-rw-r-- 1 sarah backup 3549 May 25 18:34 apache_backup_2025-05-25.tar.gz
-rw-rw-r-- 1 sarah backup  209 May 25 18:34 apache_verification.log
-rw-rw-r-- 1 mike  backup 7353 May 25 18:33 nginx_backup_2025-05-25.tar.gz
-rw-rw-r-- 1 mike  backup  691 May 25 18:33 nginx_verification.log
kevin@kevins-computer:/$ 
```

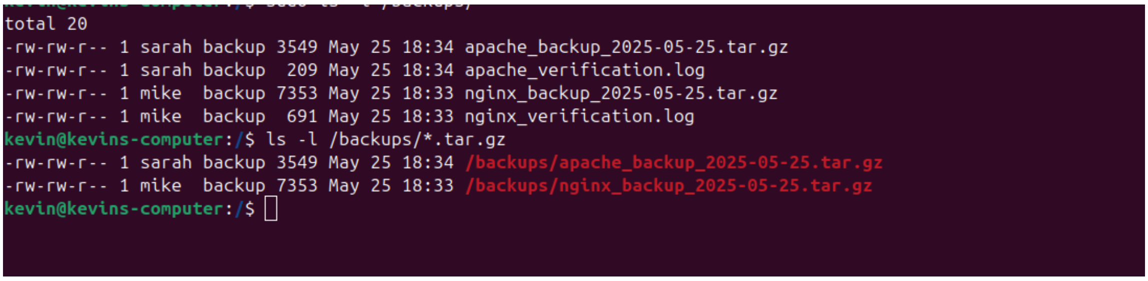
   b. sudo crontab -u sarah -l

   c. sudo crontab -u mike -l



```
kevin@kevins-computer:/$ sudo crontab -u sarah -l
0 0 * * 2     /home/sarah/scripts/apache_backup.sh
kevin@kevins-computer:/$ sudo crontab -u mike -l
0 0 * * 2       /home/mike/scripts/nginx_backup.sh
kevin@kevins-computer:/$ 
```

2. Check backup files:
   a. ls -l /backups/*.tar.gz



```
kevin@kevins-computer:/$ sudo ls -l /backups/
total 20
-rw-rw-r-- 1 sarah backup 3549 May 25 18:34 apache_backup_2025-05-25.tar.gz
-rw-rw-r-- 1 sarah backup  209 May 25 18:34 apache_verification.log
-rw-rw-r-- 1 mike  backup 7353 May 25 18:33 nginx_backup_2025-05-25.tar.gz
-rw-rw-r-- 1 mike  backup  691 May 25 18:33 nginx_verification.log
kevin@kevins-computer:/$ ls -l /backups/*.tar.gz
-rw-rw-r-- 1 sarah backup 3549 May 25 18:34 /backups/apache_backup_2025-05-25.tar.gz
-rw-rw-r-- 1 mike  backup 7353 May 25 18:33 /backups/nginx_backup_2025-05-25.tar.gz
kevin@kevins-computer:/$ 
```

Features:

- Runs every Tuesday at 12:00 AM
- Compressed tar.gz archives
- Date-stamped filenames (e.g., apache_backup_2023-08-22.tar.gz)