Automated Script Assignment

WE Innovate X Zero$ploit

Prepared by: Omar Hassan

Supervised by: Eng.Ahmed ElHalwagy

Task:

- *The script must use rsync to perform backup*
- *The script must be run periodically using cron job*

Setup :

The script will be used to perform a backup on the NFS shared directory

```
┌──(kali㊀kali)-[~]
└─$ cd /srv/nfs_share

┌──(kali㊀kali)-[/srv/nfs_share]
└─$ ls
client_test.txt  script.txt  second_test.txt

┌──(kali㊀kali)-[/srv/nfs_share]
└─$ ▮
```

Commands :

- sudo mousepad /usr/local/bin/backup_to_nfs.sh

```
                                              Warning: you are using the root account. You may harm your system.
 1 #!/bin/bash
 2
 3 # Source directory to back up
 4 SRC_DIR="/home/omar/documents"
 5
 6 # Destination on NFS
 7 DEST_DIR="/mnt/nfs_backup"
 8
 9 # Create a timestamp
10 TIMESTAMP=$(date +%F_%T)
11
12 # Create backup folder with timestamp
13 TARGET="$DEST_DIR/backup_$TIMESTAMP"
14
15 # Use rsync to perform the backup
16 rsync -av --delete "$SRC_DIR/" "$TARGET/"
17
18 # Optional: log output
19 echo "Backup completed at $TIMESTAMP" >> /var/log/nfs_backup.log
20 |
```

- sudo mousepad /usr/local/bin/backup_to_nfs.sh
- sudo chmod +x /usr/local/bin/backup_to_nfs.sh
- crontab –e

Add this line: 0 2 * * * /usr/local/bin/backup_to_nfs.sh

```
File  Actions  Edit  View  Help
  GNU nano 8.4                                          /tmp/crontab.vgAhkv/crontab *
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h  dom mon dow   command
0 2 * * * /usr/local/bin/backup_to_nfs.sh
```