**## 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`**$ sudo useradd (sysd) username**

2. Give your secret user a password:

- `Your solution command here**`$ sudo passwd username**

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

- `Your solution command here` **id standard uid = <1000**

4. Give your secret user the same GID:

- `Your solution command here`**id standard GID =<1000**

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

- `Your solution command here`**$ sudo visudo**

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

```bash

Your bash commands here

**```$ sudo reboot**

**$ sudo shutdown -r now**

**$ sudo shutdown -p now**

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

1. Edit the `sshd\_config` file:

```bash

Your bash commands here

**```$ mkdir -p /.ssh && chmod 7222~/.**

**Touch ~/.ssh config**

**Chmod 6000 ~/.ssh/config.**

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

1. Restart the SSH service:

- `Your solution command here`**sudo systemctl restart sshd.** Service

2. Exit the `root` account:

- `Your solution command here` **Ctrl D**

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

- `Your solution command here` **$ ssh -p 2222 username@ip-address**

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

- `Your solution command here**`sudo -l**

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

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

- `Your solution command here**`ssh user@ .0.0.1 -p 2222**

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

- `Your solution command here**`john sudo /etc/shadow**

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