PHASE 1 - Ping

Hollywood IPs

- fping -s -g 15.199.95.80 15.199.95.95
 - o All 16 unreachable
- fping -s -g 15.199.94.80 15.199.94.95
 - o All 16 unreachable
- fping -s -g 11.199.158.80 11.199.158.95
 - o All 16 unreachable
- fping 167.172.144.11
 - o 167.172.144.11 is alive
- fping -s -g 11.199.141.80 11.199.141.95
 - o All 16 unreachable

Out of all IPs (from the rock star corp list), only 2 are alive 12.205.151.1 - New York Database servers 167.172.144.11 - Hollywood Application Servers

- The vulnerability is that one of Hollywood's IPs is accepting connections.
- You can mitigate this risk by ensuring there is a firewall for each server.

*** Layer 3 is where these findings are ***

PHASE 2 - SYN Scan

sudo nmap 12.205.151.1 -sS

"Starting Nmap 7.60 (https://nmap.org) at 2021-11-02 22:01 EDT Nmap scan report for 12-205-151-1.static.cpe.att.net (12.205.151.1) Host is up (0.0013s latency).

All 1000 scanned ports on 12-205-151-1.static.cpe.att.net (12.205.151.1) are filtered

Nmap done: 1 IP address (1 host up) scanned in 11.52 seconds"

sudo nmap 167.172.144.11 -s\$

"Starting Nmap 7.60 (https://nmap.org) at 2021-11-02 22:02 EDT Nmap scan report for 167.172.144.11 Host is up (0.0024s latency). Not shown: 999 filtered ports PORT STATE SERVICE 22/tcp open ssh

Nmap done: 1 IP address (1 host up) scanned in 11.99 seconds"

- The vulnerability would be that if port 22 is open, attackers can try to access the host machine.
- This risk can be mitigated by running scans to find which ports are open and exposing a risk for attacks.

*** Port 22 is open and SYN scan is run on layer 4 ***

PHASE 3

ssh jimi@167.172.144.11 -p 22

```
sysadmin@UbuntuDesktop: ~

jp File Edit View Search Terminal Help
sysadmin@UbuntuDesktop: ~ $ ssh jimi@167.172.144.11 -p 22
The authenticity of host '167.172.144.11 (167.172.144.11)' can't be established.
ECDSA key fingerprint is SHA256:mD28+Ud+K3Y6XNWvtyAR4Q2ti1+/V3p0Bm83hF6Ua4w.
jpAre you sure you want to continue connecting (yes/no)? yes
Marning: Permanently added '167.172.144.11' (ECDSA) to the list of known hosts.
jimi@167.172.144.11's password:
Linux GTscavengerHunt 4.9.0-11-amd64 #1 SMP Debian 4.9.189-3+deb9u1 (2019-09-20)
te x86_64
xt
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

jp Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Wed Nov 3 02:12:41 2021 from 45.29.51.35
Could not chdir to home directory /home/jimi: No such file or directory
ge.$
```

Jimi is not part of the sudoers so i changed directories into etc and used the command cat hosts

```
bbjps cat hosts

# Your system has configured 'manage_etc_hosts' as True.

# As a result, if you wish for changes to this file to persist

# then you will need to either

elete# a.) make changes to the master file in /etc/cloud/templates/hosts.tmpl

tx# b.) change or remove the value of 'manage_etc_hosts' in

# /etc/cloud/cloud.cfg or cloud-config from user-data

# 127.0.1.1 GTscavengerHunt.localdomain GTscavengerHunt

127.0.0.1 localhost

djdp 98.137.246.8 rollingstone.com

oooooooollowing lines are desirable for IPv6 capable hosts

::1 ip6-localhost ip6-locabet

ff00::0 ip6-mcastprefix

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters

ff02::3 ip6-allhosts

$ $ $ $
```

"nslookup 98.137.246.8

8.246.137.98.in-addr.arpa name = unknown.yahoo.com.

Authoritative answers can be found from:"

- The vulnerability is that the redirected website can have malicious code to infect the machine that visits that site.
- You can mitigate the risk of this file being modified by making sure only select users have access to it.

*** Layer 7 is where these findings are ***

PHASE 4

ssh jimi@167.172.144.11 -p 22

Changed directories into etc and then used: cat packetcaptureinfo.txt

```
sysadmin@UbuntuDesktop: ~
                                                                                  b7.jp File Edit View Search Terminal Help
   fstab
                            networks
                                                     subuid-
   gai.conf
                            newt
                                                     sudoers
   group
                            nscd.conf
                                                     sudoers.d
ob.jpgroup-
                            nsswitch.conf
                                                     sysctl.conf
   grub.d
                            ntp.conf
                                                     sysctl.d
   gshadow
                                                     systemd
                            opt
   gshadow-
                            os-release
                                                     terminfo
leteigss
                            packetcaptureinfo.txt )timezone
txthost.conf
                            pam.conf
                                                     tmpfiles.d
                             pam.d
                                                     ucf.conf
   hostname
                                                     udev
   hosts
                            passwd
   hosts.allow
                            passwd-
                                                     ufw
   hosts.deny
                            passwd class
                                                     update-motd.d
                            profile
dj.jpinit
                                                     vim
   init.d
                            profile.d
                                                     wgetrc
   initramfs-tools
                            protocols
                                                     X11
   inputrc
                            python
                                                     xdg
                            python2.7
age,iproute2
   issue
                            python3
   $ cat packetcaptureinfo.txt
    Captured Packets are here:
    https://drive.google.com/file/d/lic-CFFGrbruloYrWaw3PvT71elTkh3eF/view?usp=shar
```

Downloaded the secretlogs.pcapng

```
Opened pcap in wireshark and filtered by using > http.request.method == "POST"
HTML Form URL Encoded: application/x-www-form-urlencoded
  Form item: "0<text>" = "Mr Hacker"
  Form item: "0<label>" = "Name"
```

Form item: "1<text>" = "Hacker@rockstarcorp.com"

Form item: "1<label>" = "Email"

Form item: "2<text>" = ""

Form item: "2<label>" = "Phone"

Form item: "3<textarea>" = "Hi Got The Blues Corp! This is a hacker that works at Rock Star

Corp. Rock Star has left port 22, SSH open if you want to hack in. For 1 Million Dollars I will provide you the user and password!"

Form item: "3<label>" = "Message"

Form item: "redirect" =

"http://www.gottheblues.yolasite.com/contact-us.php?forml660593e583e747f1a91a77ad0d3195 e3Posted=true"

Form item: "locale" = "en"

```
Form item: "redirect_fail" =

"http://www.gottheblues.yolasite.com/contact-us.php?forml660593e583e747f1a91a77ad0d3195
e3Posted=false"

Form item: "form_name" = ""

Form item: "site_name" = "GottheBlues"

Form item: "wl_site" = "0"

Form item: "destination" =

"DQvFymnIKN6oNo284nIPnKyVFSVKDX7O5wpnyGVYZ_YSkg==:3gjpzwPaByJLFcA2ouelFsQ
G6ZzGkhh31_Gl2mb5PGk="

Form item: "g-recaptcha-response" =
```

"03AOLTBLQA9oZg2Lh3adsE0c7OrYkMw1hwPof8xGnYlsZh8cz5TtLwl8uDMZuVOls6duzyYq2 MTzsVHYzKda77dqzzNUwpa6F5Tu6b9875yKU1wZHpfOQmV8D7OTcx2rnGD6l8s-6qvyDAjCu S6vA78-iNLNUtWZXFJwleNj3hPquVMu-yzcSOX60Y-deZC8zXn8hu4c6u

- The vulnerabilities are that the hacker is messaging someone else with credentials to hack into the system and trying to take the IP of someone else.
- This risk can be mitigated by ensuring there is a set amount of requests that can be made before the system is alerted.

*** Layer 2 is where these findings are ***