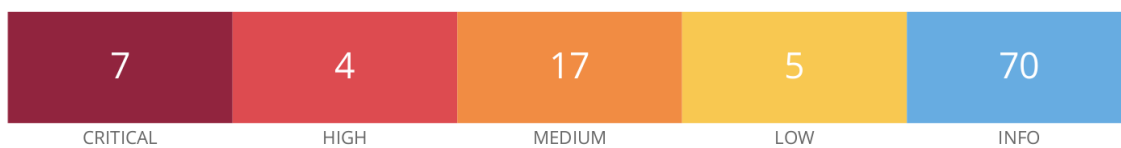


# Remediation Critical Vulnerabilities



192.168.50.101



Vulnerabilities

Total: 103

SEVERITY	CVSS V3.0	PLUGIN	NAME
CRITICAL	9.8	51988	Bind Shell Backdoor Detection
CRITICAL	9.8	20007	SSL Version 2 and 3 Protocol Detection
CRITICAL	10.0	33850	Unix Operating System Unsupported Version Detection
CRITICAL	10.0*	32314	Debian OpenSSH/OpenSSL Package Random Number Generator Weakness
CRITICAL	10.0*	32321	Debian OpenSSH/OpenSSL Package Random Number Generator Weakness (SSL check)
CRITICAL	10.0*	11356	NFS Exported Share Information Disclosure
CRITICAL	10.0*	61708	VNC Server 'password' Password

## - Remediation: Bind Shell Backdoor Detection

```
File  Macchina  Visualizza  Inserimento  Dispositivi  Aiuto

status          show firewall status
version         display version information

root@metasploitable:/home/msfadmin# ufw enable 1524
Firewall started and enabled on system startup
root@metasploitable:/home/msfadmin# ufw

Usage: ufw COMMAND

Commands:
  enable          Enables the firewall
  disable         Disables the firewall
  default ARG     set default policy to ALLOW or DENY
  logging ARG     set logging to ON or OFF
  allow|deny RULE allow or deny RULE
  delete allow|deny RULE delete the allow/deny RULE
  status          show firewall status
  version         display version information

root@metasploitable:/home/msfadmin# ufw default allow
Default policy changed to 'allow'
(be sure to update your rules accordingly)
root@metasploitable:/home/msfadmin# ufw deny 1524
Rule added
root@metasploitable:/home/msfadmin# _
```

Per risolvere la prima criticità, entrando con i permessi di Root, ci siamo affidati al comando **UFW (Uncomplicated Firewall)**, un sistema semplificato per la gestione del Firewall, dove siamo andati ad eseguire prima “**ufw default allow**” consentendo il traffico in entrata e di seguito “**ufw deny 1524**” bloccando così la vulnerabilità riscontrata

```
(kali@kali)-[~]
$ sudo nmap -T5 -sV -p1524 192.168.50.101
[sudo] password for kali:
Starting Nmap 7.92 ( https://nmap.org ) at 2022-11-25 07:05 EST
Nmap scan report for 192.168.50.101
Host is up (0.0071s latency).

PORT      STATE      SERVICE      VERSION
1524/tcp  filtered  ingreslock
MAC Address: 08:00:27:ED:A5:B7 (Oracle VirtualBox virtual NIC)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 13.88 seconds
```

- 1524/tct filtered

## - NFS Exported Share Information Disclosure

Sempre con i permessi di Root attivi, ci spostiamo nella cartella dal **root - etc/nano exports**

```
root@metasploitable:/etc# nano exports
```

Entrati nel file **exports** andremo ad inserire il comando **/mnt/newdisk** e di conseguenza l'ip di Metasploitable. Così facendo, avremmo configurato in maniera corretta NFS. Riparando la vulnerabilità riscontrata

```
GNU nano 2.0.7 File: exports
# /etc/exports: the access control list for filesystems which may be exported
# to NFS clients. See exports(5).
#
# Example for NFSv2 and NFSv3:
# /srv/homes hostname1(rw,sync) hostname2(ro,sync)
#
# Example for NFSv4:
# /srv/nfs4 gss/krb5i(rw,sync,fsid=0,crossmnt)
# /srv/nfs4/homes gss/krb5i(rw,sync)
#
/mnt/newdisk 192.168.50.101(rw,sync,no_root_squash,no_subtree_check)
```

## - VNC Server “password” password

Per questa soluzione, senza mai uscire dai permessi di Root, ci sposteremo nella directory **.vnc** per avviare il comando di conseguenza il comando **vncpasswd**, questo farà in modo di chiederci una nuova password risolvendo la criticità trovata

```
root@metasploitable:~# ls -la
.      .config      .gconf      .profile    .ssh
..     Desktop     .gconfd     .purple     .vnc
.bash_history .filezilla  .gstreamer-0.10 reset_logs.sh vnc.log
.bashrc     .fluxbox   .mozilla    .rhosts     .Xauthority
root@metasploitable:~# cd .vnc
root@metasploitable:~/vnc# ls -la
.      metasploitable:0.log metasploitable:1.log passwd
..     metasploitable:0.pid metasploitable:2.log xstartup
root@metasploitable:~/vnc# vncpasswd
Using password file /root/.vnc/passwd
Password:
Verify:
Would you like to enter a view-only password (y/n)? n
root@metasploitable:~/vnc#
```

## - Conclusione



Vulnerabilities

Total: 89

SEVERITY	CVSS V3.0	PLUGIN	NAME
CRITICAL	9.8	20007	SSL Version 2 and 3 Protocol Detection
CRITICAL	10.0	33850	Unix Operating System Unsupported Version Detection
CRITICAL	10.0*	32314	Debian OpenSSH/OpenSSL Package Random Number Generator Weakness
CRITICAL	10.0*	32321	Debian OpenSSH/OpenSSL Package Random Number Generator Weakness (SSL check)
HIGH	8.6	136769	ISC BIND Service Downgrade / Reflected DoS

Con una nuova scansione si possono notare le criticità risolte.