Day 40

Exploitation Analyst

Control Remote Connections:

Remove Root login from SSH:

Why disabling root SSH login is a good idea?

- Root has full power if compromised, attacker owns the system.
- Attackers always target root brute-force bots try "root" username first.
- Audit trail using normal users + sudo gives logs of who did what.

What was earlier (if root login allowed)?

- Anyone knowing the root password could directly SSH as root.
- No accountability (all actions just appear as root).
- Higher risk of brute-force attacks succeeding.

What changes when we disable it?

- Remote root login blocked.
- Users must log in as normal accounts and use sudo for admin tasks.
- Increases accountability + reduces direct attack surface.

What happens in the background?

- sshd checks sshd_config.
- When PermitRootLogin no, it rejects login attempts with username root before password/key check.
- Authentication only proceeds for non-root accounts.

Steps to Remove Root login from SSH:

Steps:

First navigate to the /etc/ssh and open the sshd_config by nano:

```
[root@parrot]=[/home/user]
#cd /etc/ssh

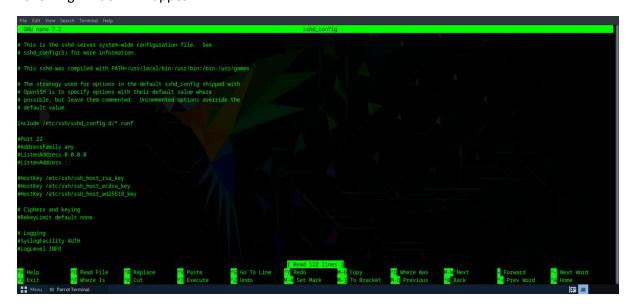
[root@parrot]=[/etc/ssh]
#ls

moduli ssh_config.d ssh_host_ecdsa_key.pub ssh_host_ed25519_key.pub ssh_host_rsa_key.pub sshd_config ssh_config ssh_host_ecdsa_key ssh_host_rsa_key sshd_banner sshd_config.bak

[root@parrot]=[/etc/ssh]
#nano sshd_config

[root@parrot]=[/etc/ssh]
##
```

Following window will appear:



Press Ctrl + F and type "PermitRootLogin" to visit that section of the file:

```
#LoginGraceTime 2m

#PermitRootLogin prohibit-password

#StrictModes yes

#MaxAuthTries 6

#MaxSessions 10

#PubkeyAuthentication yes
```

Change it to like shown below:



- PermitRootLogin yes → allow root login.
- PermitRootLogin no → disable root login (recommended).
- PermitRootLogin prohibit-password → allow only key-based login for root.

Save it, and restart: systemctl restart ssh

```
File Edit View Search Terminal Help

[root@parrot]-[/etc/ssh]

#systemctl restart ssh

[root@parrot]-[/etc/ssh]

##
```