# **Day 38**

## **Exploitation Analyst**

### **Control Remote Connections:**

#### How can we control remote connections in Linux?

You can control remote connections in Linux by:

- 1. **SSH configuration** (/etc/ssh/sshd\_config) restrict users, change port, disable root login.
- 2. **Firewall rules** (ufw, iptables) allow/block specific IPs or ports.
- 3. **TCP wrappers** (/etc/hosts.allow, /etc/hosts.deny).
- 4. **Fail2Ban** block repeated failed login attempts.
- 5. **Disabling unnecessary services** (systematl disable service).

#### Why we need to control remote connections?

We need to control remote connections to:

- 1. **Prevent unauthorized access** stop attackers from logging in.
- 2. Limit attack surface only allow trusted users/IPs.
- 3. **Protect sensitive data** prevent data theft or modification.
- 4. Mitigate brute-force attacks reduce risk of password guessing.
- 5. **Ensure system stability** avoid unauthorized processes consuming resources.

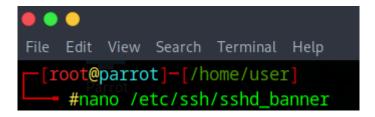
## **Steps to Control Remote Connections by SSH banner:**

#### **Regarding SSH banners:**

- Before login: Displayed before authentication. Used for legal warnings or notices. Configured in Banner /etc/ssh/sshd\_banner in /etc/ssh/sshd\_config.
- After login: Displayed after authentication, usually via /etc/motd or shell profile (~/.bash\_profile). Can show system info or messages.

### Steps:

Open the /etc/ssh/sshd banner file using nano text editor:



#### Following screen will appear:



Write your message:

```
Parrot Terminal

File Edit View Search Terminal Help

GNU nano 7.2

Authorized Users Only!
```

Now, open the SSH config from the file /etc/ssh/sshd\_config:

```
Parrot Terminal

File Edit View Search Terminal Help

[root@parrot]—[/home/user]

#nano /etc/ssh/sshd_config
```

Following screen will appear:



Press Ctrl + F and search for "banner": following section should be found commented.

```
# no default banner path
#Banner none

# Allow client to pass locale environment variables
AcceptEnv LANG LC_*
```

Edit it, remove that # symbol, and also add the path of /etc/ssh/sshd\_banner over there:

```
# no default banner path
Banner /etc/ssh/sshd_banner

# Allow client to pass locale environment variables
AcceptEnv LANG LC_*
```

Save it, and then restart the SSH: using the command /etc/init.d/ssh restart

You should see the banner before login.

--The End--