

PRACTICAL-9

AIM

Create a remote connection using open SSH

IMPLEMENTATION

- Firstly, check for the services available.

```
root@kali:~# service --status-all
[ + ] apache-htcacheclean
[ - ] apache2
[ + ] arptwatch
[ - ] atftpd
[ - ] avahi-daemon
[ - ] beef-xss
[ + ] binfmt-support
[ - ] bluetooth
[ - ] bootlogs
[ - ] bootmisc.sh
[ - ] checkfs.sh
[ - ] checkroot-bootclean.sh
[ - ] checkroot.sh
[ - ] clamav-daemon
[ - ] clamav-freshclam
[ - ] console-setup.sh
```

- Then, install openssh-server

```
root@kali:~# apt-get install openssh-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
openssh-server is already the newest version (1:7.3p1-1).
The following packages were automatically installed and are no longer required:
  espeak-data libespeak1 libsonic0
Use 'apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 497 not upgraded.
```

- Start the ssh service and server

```
root@kali:~# service ssh start
root@kali:~# service ssh statut
[info] Usage: /etc/init.d/ssh {start|stop|reload|force-reload|restart|try-restart|status}.
```

- Check for the service status

```
Reading state information... Done
openssh-server is already the newest version (1:7.3p1-1).
The following packages were automatically installed and are no longer required:
  espeak-data libespeak1 libsonic0
Use 'apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 497 not upgraded.
root@kali:~# service ssh start
root@kali:~# service ssh statut
[info] Usage: /etc/init.d/ssh {start|stop|reload|force-reload|restart|try-restart|status}.
root@kali:~# service ssh status
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: disabled)
   Active: active (running) since aca 2016-12-11 18:19:09 UTC; 42min ago
   Main PID: 856 (sshd)
   CGroup: /system.slice/ssh.service
           └─856 /usr/sbin/sshd -D

kax 11 18:19:09 kali systemd[1]: Starting OpenBSD Secure Shell server...
kax 11 18:19:09 kali sshd[856]: Server listening on 0.0.0.0 port 22.
kax 11 18:19:09 kali sshd[856]: Server listening on :: port 22.
kax 11 18:19:09 kali systemd[1]: Started OpenBSD Secure Shell server.
kax 11 19:00:49 kali systemd[1]: Started OpenBSD Secure Shell server.
```

- Navigate to ssh folder to check the details of the connection

```
root@kali:/etc/ssh# cd /etc/ssh
root@kali:/etc/ssh# ls
moduli          ssh_host_dsa_key.pub    ssh_host_ed25519_key.pub
ssh_config      ssh_host_ecdsa_key      ssh_host_rsa_key
sshd_config     ssh_host_ecdsa_key.pub  ssh_host_rsa_key.pub
ssh_host_dsa_key ssh_host_ed25519_key
```

CONCLUSION

In this practical, we learnt to establish remote openssh connection.