

Class 19

SSH = secure shell - it is use to take the linux machine console in encrypted way remotely . Port no = 22

Package name = openssh

Service name = sshd = ssh demon

Configuration file = /etc/ssh/sshd_config

Log file = /var/log/secure

Vm1 = server1 = 192.168.1.4

Vm2 = server2 = 192.168.1.8

1. Take linux ssh from linux and window and 3 party software from different -2 user

Server1

Rpm -q openssh

Make 3 user aa bb cc

Systemctl restart sshd

Take the ssh

Linux ssh [root@192.168.1.4](ssh://root@192.168.1.4)

Ssh [aa@192.168.1.4](ssh://aa@192.168.1.4)

Allow the root in RHEL 9

Vim /etc/ssh/sshd_config

40 PermitRootLogin yes

:wq

Systemctl restart sshd

Window

Ssh [aa@192.168.1.4](ssh://aa@192.168.1.4)

3 party software

Putty

2. stop the root to take the ssh

vim /etc/ssh/sshd_config

40 PermitRootLogin no

:wq

Systemctl restart sshd

3. Allow specific user to take the ssh

User = aa bb cc

Aa allow

Vim /etc/ssh/sshd_config

AllowUsers aa

:wq

Systemctl restart sshd

4. Deny the specific user

100 user

```
5 stop 95 allow
Vim /etc/ssh/sshd_config
DenyUsers aa cc
:wq
Systemctl restart sshd
```

5. Take ssh from specific IP

Linux = 192.168.1.8

Window = 192.168.1.6

Aa = 192.168.1.6

Vim /etc/ssh/sshd_config

AllowUsers [aa@192.168.1.6](#) [cc@192.168.1.8](#)

:wq

Systemctl restart sshd

AllowUsers 200.0.0.1 aa@10.0.0.1

DenyUsers 200.0.0.2

6. Change the ssh port number

vim /etc/ssh/ssd_config

21 Port 2224

:wq

Security = firewall , selinux

Selinux = semanage port -a -t ssh_port_t -p tcp 2224

Firewall - firewall-cmd --permanent --add-port=2224/tcp

Firewall-cmd --reload

Ssh [aa@192.168.1.4](#) -p 2224

7. Set unactive time to logout from ssh

Vim /etc/bashrc

TMOUT=20 = 20 sec

:wq

8. Run the command without login in ssh

Ssh [aa@192.168.1.4](#) mkdir india

Ssh [bb@192.168.1.4](#) touch ff

9. Set the keybased authentication

Password based authentication

Client side

Ssh-keygen

Ls -a

Cd .ssh

Ls

Id_rsa (private) id_rsa.pub (public key) (share to server)

Copy the key

Ssh-copy-id -i [root@192.168.1.4](#) (-i = same permission)
