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 = /vat/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](mailto:root@192.168.1.4)

Ssh [aa@192.168.1.4](mailto: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](mailto:aa@192.168.1.4)

3 party software

Putty

1. stop the root to take the ssh

vim /etc/ssh/sshd\_config

40 PermitRootLogin no

:wq

Systemctl restart sshd

1. Allow specific user to take the ssh

User = aa bb cc

Aa allow

Vim /etc/ssh/sshd\_config

AllowUsers aa

:wq

Systemctl restart sshd

1. Deny the specific user

100 user

5 stop 95 allow

Vim /etc/ssh/sshd\_config

DenyUsers aa cc

:wq

Systemctl restart sshd

1. 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](mailto:aa@192.168.1.6) [cc@192.168.1.8](mailto:cc@192.168.1.8)

:wq

Systemctl restart sshd

AllowUsers 200.0.0.1 aa@10.0.0.1

DenyUsers 200.0.0.2

1. 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](mailto:aa@192.168.1.4) -p 2224

1. Set unactive time to logout from ssh

Vim /etc/bashrc

TMOUT=20 = 20 sec

:wq

1. Run the command without login in ssh

Ssh [aa@192.168.1.4](mailto:aa@192.168.1.4) mkdir india

Ssh [bb@192.168.1.4](mailto:bb@192.168.1.4) touch ff

1. 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](mailto:root@192.168.1.4) (-i = same permission )