

## Main Steps:

Consider A as source(from where have to do ssh) and B as target (where we have to ssh)

A: 172.31.90.118

B: 172.31.83.248

Generating the keygen from the A.

Storing the public key generated in the ~/.ssh/authorized\_keys of B.

Then doing ssh from A to B using private key of A (id\_rsa).

```
Activities Terminal Mon 16:44
ubuntu@ip-172-31-83-248: ~

File Edit View Search Terminal Help
DesktopCentral_LinuxAgent.bin Q1.odt Ubuntu.txt
Linux_README.html S3Exp.py vishal-key-pair.pem
Pair1.pem secure-vishal-pair.pem vishal-pair-1.pem
'Q1 (1).odt' serverinfo.json

vishal@Quantiphi-747:~/Downloads$ ssh -i "vishal-key-pair.pem" ubuntu@ec2-35-173-245-79.compute-1.amazonaws.com
The authenticity of host 'ec2-35-173-245-79.compute-1.amazonaws.com (35.173.245.79)' can't be established.
ECDSA key fingerprint is SHA256:V7IafwT3px9jYz5iBz6eX70+ON8Bz3xohgVCKIcL2U.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-35-173-245-79.compute-1.amazonaws.com,35.173.245.79' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-1084-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

23 packages can be updated.
0 updates are security updates.

Last login: Fri Jun 14 07:53:14 2019 from 59.152.53.122
ubuntu@ip-172-31-90-118:~$ ssh-keygen -t rsa -N "" -f /home/ubuntu/.ssh/id_rsa
Generating public/private rsa key pair.
Your identification has been saved in /home/ubuntu/.ssh/id_rsa.
Your public key has been saved in /home/ubuntu/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:LCQ5ts+XAewV+zEUARsXrQFI0yC+Q6eyMfcDZEe9/M8 ubuntu@ip-172-31-90-118
The key's randomart image is:
+----[RSA 2048]-----+
| ..==0*==|
| .-..0B..|
| X*+.oo|
| = @+o..o|
| + B o S..|
| * * . o.|
|   = o o|
|       o E|
+----[SHA256]-----+
+-----[RSA 2048]-----+
| ..==0*==|
| .-..0B..|
| X*+.oo|
| = @+o..o|
| + B o S..|
| * * . o.|
|   = o o|
|       o E|
+----[SHA256]-----+
+-----[RSA 2048]-----+
| ..==0*==|
| .-..0B..|
| X*+.oo|
| = @+o..o|
| + B o S..|
| * * . o.|
|   = o o|
|       o E|
+----[SHA256]-----+
```

```
Activities Terminal Mon 16:45
ubuntu@ip-172-31-83-248: ~

File Edit View Search Terminal Help
ubuntu@ip-172-31-90-118:~/.ssh$ ls
authorized_keys id_rsa id_rsa.pub known_hosts my.key
ubuntu@ip-172-31-90-118:~/.ssh$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCYQk21J6UDwb0kbnktj8ZrLDtrSnM+U/AWycDQ3A2sj2KoAPK49ulj1lBA67yyCBhowtTLgmZJ8haE2vq4PiDR6Xzyo5LR0ta5Qtt6ZS
0wcTxD+NHwKLpZ6uUvRwj42LKlXhyuyxbHKCJVBAJUEqSLb2TT8+tdZjSt5Q060G72rcp0JxLMTeP47jYsqx2avWmIEyPSBG/euXTP3sw49IF0o/pIBJogxEo2qyaYZ7rSwKQyst/pDSe
MSV1PF982h32K0HG9YmSw6scr7kSmKMj/UBUY9j2D6nDjuoV/F9eEy37QlyE9pG09jNrnPaMNPmI324Wu2DntcSV4G6B0H ubuntu@ip-172-31-90-118
ubuntu@ip-172-31-90-118:~/.ssh$ ^C
ubuntu@ip-172-31-90-118:~/.ssh$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCYQk21J6UDwb0kbnktj8ZrLDtrSnM+U/AWycDQ3A2sj2KoAPK49ulj1lBA67yyCBhowtTLgmZJ8haE2vq4PiDR6Xzyo5LR0ta5Qtt6ZS
0wcTxD+NHwKLpZ6uUvRwj42LKlXhyuyxbHKCJVBAJUEqSLb2TT8+tdZjSt5Q060G72rcp0JxLMTeP47jYsqx2avWmIEyPSBG/euXTP3sw49IF0o/pIBJogxEo2qyaYZ7rSwKQyst/pDSe
MSV1PF982h32K0HG9YmSw6scr7kSmKMj/UBUY9j2D6nDjuoV/F9eEy37QlyE9pG09jNrnPaMNPmI324Wu2DntcSV4G6B0H ubuntu@ip-172-31-90-118
ubuntu@ip-172-31-90-118:~/.ssh$ ssh -i id_rsa ubuntu@172.31.83.248
The authenticity of host '172.31.83.248 (172.31.83.248)' can't be established.
ECDSA key fingerprint is SHA256:0VFgbtVjo5PAVIN0LxYuF0LR1C6wKWyIU48taLUXdmw.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '172.31.83.248' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.15.0-1039-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Mon Jun 17 10:54:26 UTC 2019

System load: 0.0          Processes:      87
Usage of /:  13.7% of 7.69GB   Users logged in:  1
Memory usage: 15%          IP address for eth0: 172.31.83.248
Swap usage:  0%

 * Ubuntu's Kubernetes 1.14 distributions can bypass Docker and use containerd
   directly, see https://bit.ly/ubuntu-containerd or try it now with

   snap install microk8s --classic

0 packages can be updated.
0 updates are security updates.
```

```
Activities Terminal Mon 16:45
ubuntu@ip-172-31-83-248: ~/.ssh

vishal@Quantiphi-747:~/Downloads$ ssh -i "vishal-key-pair.pem" ubuntu@ec2-18-212-73-65.compute-1.amazonaws.com
The authenticity of host 'ec2-18-212-73-65.compute-1.amazonaws.com (18.212.73.65)' can't be established.
ECDSA key fingerprint is SHA256:0VfgbtVjo5PAVIN0LxYuF0LR1C6wKMyIU48TaLuxdmw.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-18-212-73-65.compute-1.amazonaws.com,18.212.73.65' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.15.0-1039-aws x86_64)

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 * Support:       https://ubuntu.com/advantage

System information as of Mon Jun 17 10:46:40 UTC 2019

System load:  0.08          Processes:      84
Usage of /:   13.5% of 7.69GB Users logged in: 0
Memory usage: 14%          IP address for eth0: 172.31.83.248
Swap usage:   0%

0 packages can be updated.
0 updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-83-248:~$ cd ~/.ssh/
ubuntu@ip-172-31-83-248:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-83-248:~/.ssh$ nano authorized_keys
ubuntu@ip-172-31-83-248:~/.ssh$ nano authorized_keys
```

```
Activities Terminal Mon 16:45
ubuntu@ip-172-31-83-248: ~/.ssh

System information as of Mon Jun 17 10:46:40 UTC 2019

System load:  0.08          Processes:      84
Usage of /:   13.5% of 7.69GB Users logged in: 0
Memory usage: 14%          IP address for eth0: 172.31.83.248
Swap usage:   0%

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applicable law.

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See "man sudo_root" for details.

ubuntu@ip-172-31-83-248:~$ cd ~/.ssh/
ubuntu@ip-172-31-83-248:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-83-248:~/.ssh$ nano authorized_keys
ubuntu@ip-172-31-83-248:~/.ssh$ nano authorized_keys
ubuntu@ip-172-31-83-248:~/.ssh$ nano authorized_keys
ubuntu@ip-172-31-83-248:~/.ssh$ ^C
Use "fg" to return to nano.

[1]+  Stopped                  nano authorized_keys
ubuntu@ip-172-31-83-248:~/.ssh$ cat authorized_keys

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQACQYQk21J6UDwb0kbnktj8ZrLDtrSnM+U/AWycDQ3A2sj2KoAPK49ulj1lBA67yycBhowtLgmZJ8haE2vq4PiDR6Xzyp05lR0ta5QtT6ZS
0wCtXd+NhWkLpZ6uVrWj42LKlXhyuyxhKcJVB8JUEqslb2IT8+tDzj5tSQ0060G72rcp0JxLmTeP47jYsqx2avWmiEypSBG/euXTP3sW491F0o/pI8JogxEo2qyaVZ7rSwKQyst/pDSe
MSV1Pf982h32K0H6Y9wSw6scr7kSmKMi/UBUY9j2D6nDjuov/F9eEy37QlyE9pG09jNrnPaMnPhmI3Z4Wu2DntcSV4G6B0H ubuntu@ip-172-31-90-118
ubuntu@ip-172-31-83-248:~/.ssh$
```

```
Activities Terminal Mon 16:47
ubuntu@ip-172-31-83-248: ~

File Edit View Search Terminal Help
MSV1Pf982h32K0H6Y9wSw6scr7kSmKMj/UbUY9j2D6nDjuoV/F9eEy37QlyE9pG09jNrnPaMNPmI3Z4Wu2DntcSV4G6BOH ubuntu@ip-172-31-90-118
ubuntu@ip-172-31-90-118:~/.ssh$ ^C
ubuntu@ip-172-31-90-118:~/.ssh$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCYQk21J6UDwb0kbntj8ZrldtrSnM+U/AWycDQ3A2sj2KoAPK49ulj1lBA67yyCBhowttlgmZJ8haE2vq4PiDR6XzYo5lRota5QtT6ZS
0wCtXD+NHwKlpZ6uuVrWj42LKlXhyuyxbHkCjVBAJUEqS1b2TT8+tdzj5t5Q0060G72rcp0JxLmTeP47jYsqx2avWmiEyPSBG/euXTP3sW491F0o/pIBJogxEo2qyaYZ7rSwKQyst/pDSe
MSV1Pf982h32K0H6Y9wSw6scr7kSmKMj/UbUY9j2D6nDjuoV/F9eEy37QlyE9pG09jNrnPaMNPmI3Z4Wu2DntcSV4G6BOH ubuntu@ip-172-31-90-118
ubuntu@ip-172-31-90-118:~/.ssh$ ssh -i id_rsa ubuntu@172.31.83.248
The authenticity of host '172.31.83.248 (172.31.83.248)' can't be established.
ECDSA key fingerprint is SHA256:OVFgbtVjo5PAVIn0LxYuF0LRIC6wKMyLU4BtaLuxdmw.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '172.31.83.248' (ECDSA) to the list of known hosts.
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To run a command as administrator (user "root"), use "sudo <command>".
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ubuntu@ip-172-31-83-248:~$
```