

Password based Authentication:

<u>Create user:</u> useradd harish

<u>Validate:</u> id harish

Create password: passwd harish

enabling password based authentication:

vim /etc/ssh/sshd_config

make Password Authentication to 'yes'

root@ip-172-31-38-237:/home/ec2-user

```
#PubkeyAuthentication yes

# The default is to check both .ssh/authorized keys and .ssh/authorized keys2
# but this is overridden so installations will only check .ssh/authorized_keys
AuthorizedKeysFile .ssh/authorized_keys

#AuthorizedPrincipalsFile none

# For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
#HostbasedAuthentication no
# Change to yes if you don't trust ~/.ssh/known_hosts for
# HostbasedAuthentication
# IgnoreUserKnownHosts no
# Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes

# Explicitly disable PasswordAuthentication. By presetting it, we
# avoid the cloud-init set passwords module modifying sshd_config and
# restarting sshd in the default instance launch configuration.

PasswordAuthentication yes
PermitEmptyPasswords no

# Change to no to disable s/key passwords
# KbdInteractiveAuthentication yes
```

:wq -- save and exit the file

systemctl restart sshd → restart sshd service

In the terminal:

ssh harish@<public IP>

Key based Authentication:

ssh-keygen -f harish \Rightarrow to setup keybased authentication take keys from ramesh

cat harish.pub → copy the key

```
[harish@ip-172-31-38-237 ~]$ ssh-keygen -f harish
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in harish
Your public key has been saved in harish.pub
The key fingerprint is:
SHA256:YiCnynbeDtF2xVhU5n2fpluACNsRSd7WRxgWmS3Y1PM harish@ip-172-31-38-237.ec2.i
nternal
The key's randomart image is:
+---[RSA 3072]----+
        .+++ +=0.
        +.+000*00|
       ..00.0..0+
    +.. .+ + ...E|
   .. 00.5 0 . ..0
 .0 0
. 0 0
               0 1
   --[SHA256]----+
[harish@ip-172-31-38-237 ~]$ 1s
harish harish.pub
[harish@ip-172-31-38-237 ~]$ cat harish.pub
ssh-rsa AAAAB3NzaClyc2EAAAADAQABAAABgQDEoGCEbNEvbHNNQM6wMPzgMjh2taYebmVaLk/eGjnK
uOk4p3keUaVFvJ+/sJ3Hpw/RZPEiUB7gvR7Zmo6bs+IZbHffiwOgNQ+wX4x84GbTRoQywLqxBdlIA59Z
HqLdEtFpIoAGIX3YuZ9Y7SMhb9kKRB+FJLVRf0YFrzSrG7f1UvSPda3Io9HPz4fDid7KI5UE1VuXQf+i
VAgn4SSSMnkvjfLCsJ5c76hyyuiycMgDVXaEZBGn2gypIX6uipk/cOnZuJfqmeftk4xveY+X1F8R2rqZ
1b KggbhLm/3It UDc UNO0y Qp4njDmw44BJahb58Rdeq+epDBcEIkFmvXHgY0rT3mEEe7pvE0gnt7ifplY\\
tR010Tpo64zBNY91wIWA8wMa0rCJKrtJv0hFtifIfprX+f23xD+qfv8FNFH3buHyaKJSRNMUaMNw43S2
yYaS2MbpvMqFYY4wNGisgdGejZG03Ce41Etv14xOcQt5TKPQomwtCsf09R57xh3WmaMv0G8= harish@
ip-172-31-38-237.ec2.internal
```

key will be sent to administrator via email. Administrator will perform below steps

```
cd /home/ harish

Is -la

chmod 700 .ssh

cd .ssh

touch authorized_keys

chmod 700 authorized_keys

vim authorized_keys → paste the copied public key (harish.pub)

vim /etc/ssh/sshd_config

search ?key → uncomment Publickey Authentication yes

make Password Authentication 'no'
```

```
:wq -- save and exit the file
```

systemctl restart sshd → restart sshd service

now from the harish terminal check if he is able to authenticate using keys ssh -i privatekey user@<Public IP>

ssh -i harish harish@34.229.135.234