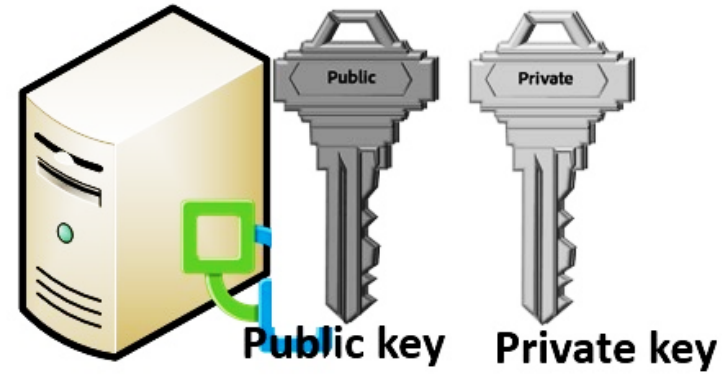# SSH KEYGEN

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# SSH KEYGEN

Hadoop cluster setup requires SSH key based authentication among master and slave nodes. Using SSH key based authentication, master node can connect to slave nodes or secondary nodes to start/stop the daemons\processes without any password.

If password-less SSH is not setup, user has to manually specify the password on each individual machine to start all the processes.
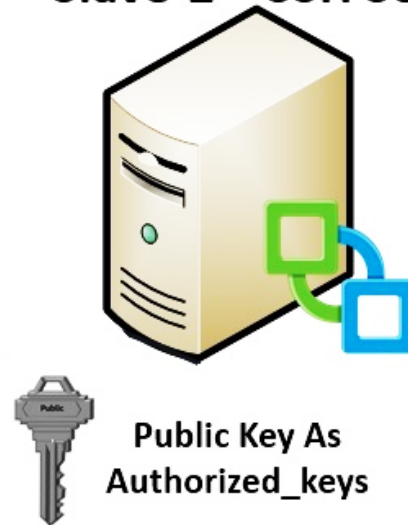
Master    SSH Client

Public    Private

Public key    Private key

Slave-1 – SSH Server

Public Key As
Authorized_keys

Slave-2 – SSH Server

Public Key As
Authorized_keys

Slave-3 – SSH Server

Public Key As
Authorized_keys

# Steps for Password-Less SSH in Hadoop

**1.  Create an SSH**

`$ ssh-keygen -t rsa -P ""`

Use the ssh-keygen command to create an SSH key
Here:
-t: type of key to be created          -P: indicates an empty password

Go to .ssh directory and list the files.
`[/home/sohrab]$ cd .ssh`
`[/home/sohrab/.ssh]$ ls`
Here we can find id_rsa.pub (public key) and id_rsa (private key) files.

**2. Copy the SSH Public Key to the Remote Host**
`[/home/sohrab/.ssh] $ cp id_rsa.pub authorized_keys`

**3. Give access to SSH key**
`[/home/sohrab /.ssh] $ chmod 755 authorized_keys`

# Thank you ☺

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