#### **Key-based authentication**

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#### **Overview :**

Password Less authentication to Linux servers makes the system admin’s life easy. To Implement password less or Keys based authentication we have to generate Public and Private keys , Copy the Public keys to remote Linux servers either manually or by ssh-copy-id command .

In My scenario I have Ubuntu laptop and daily I have to login to lot of remote Linux servers , Follow the below steps to achieve passwordless / Keys based authentication :

**Step:1 Generate Public and Private keys , using below command**

# ssh-keygen -t rsa

Above command will save the keys under ~/.ssh directory with the name id\_rsa & id\_rsa.pub. Leave the passpharse empty while executing above command.

**Step:2 Copy the public key to remote linux servers**

#ssh-copy-id -i /root/.ssh/id\_rsa.pub root@mail1.nsitmail.com

ssh-copy-id command will automatically copy the contents of id\_rsa.pub file to ~/.ssh/authorized\_keys file of remote linux server

Note : if we don’t want to use ssh-copy-id command , then manually Append contents of file “id\_rsa.pub” to “~/.ssh/authorized\_keys” remote linux server and change the permissions of “~/.ssh/authorized\_keys” to 755.

**Example:3 Now access the remote linux server and it will not ask for the password.**

#ssh root@mail1.nsitmail.com