**Setup SSH Passwordless Login**

**Secure Shell (SSH) is a cryptographic network protocol used for secure connection between a client and a server and supports various authentication mechanisms. The two most popular mechanisms are passwords based authentication and public key based authentication.**

**Now, we will see how to setup an SSH key-based authentication as well how to connect to our Linux server without entering a password**

**My Setup Environment**

SSH Client : 192.168.72.91

SSH Remote Host : 192.168.92.95

**Create Authentication SSH-Kegen Keys on – (192.168.72.91)**

ssh-keygen -t rsa

Generating public/private rsa key pair.

Enter file in which to save the key (/root/.ssh/id\_rsa): #press enter

Created directory '/root/.ssh'.

Enter passphrase (empty for no passphrase): #press enter

Enter same passphrase again: #press enter

Your identification has been saved in /root/.ssh/id\_rsa.

Your public key has been saved in /root/.ssh/id\_rsa.pub.

The key fingerprint is:

SHA256:qfqCQY9BsJJrY5GFOGc6ptzuzlgjuptzQKiu/yJI19g root@deep.com

The key's randomart image is:

+---[RSA 2048]----+

|o... |

|o+\* |

|=O |

|=++ . |

|B\*.++ S |

|\*o++.E . |

|+oo= . |

|=oO.o. |

|BO+\*oo. |

+----[SHA256]-----+

then it will create in /root/.shh

cd .shh

ls -lta

cd .ssh

ls -lta

**you will see the id\_rsa.pub file, now you would send this file on host (192.168.72.95)**

scp .ssh/id\_rsa.pub root@192.168.72.95:/home

**Upload Generated Public Keys to – 192.168.0.11**

cd /home

ls -ltr

cat id\_rsa.pub

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDMO9my3Yb3TEudwyoT6y+i4c6dvwbTtDmo49AXTM+5

lIth8ds5P8pANs87eGDapfi0vjb8aEFXjQJ3OIFjCdA8jaCb0jknzKilxmEg2QI1ef2QSrFgMmvvMyKG

I6Zr6ggsbTb/ckt/9iXSf2coPBubE4nLzSF64coH2zKxeu/hzoJE+Waw+89/W/BvQRCahVO4LtFyb4Jb

RA4eZbCFPcUUkTDVPPby6DRh6DZC2xN58q7oPbXfznK5CyXaDkbEBCB3PJDYe2vMpp9/H7fBbkCfEZCw

++CX13bn7eXjJE5zP/BTd9TPt0VJjS2gYrVez1zWLy2tStaTcMMgdUAhkowR root@deep.com

(**now you have to copy this key and paste in authorized\_keys)**

in the root

ls -ltr

**if there is .ssh file is not avilable then you have to create manually .shh file otherwise,**

cd .ssh

vi authorized\_keys

**(paste the key and save it)**

chmod 640 authorized\_keys

**Testing**

ssh 192.168.72.95

you will log in with enting the password