Passwordless Authentication using ssh

Pre request:

- 1. Have two machines one will be ssh client and the other will be ssh server or remote server
- 2. ssh needs to be installed in ssh remote server

Steps:

- Login to your ssh client as root user and generate public & private key using the command "ssh-keygen"
- 4. Click enter to save the key in default location
- 5. In enter the passphrase just click enter that is empty passphrase(if you wish to make your key secure you can provide the passphrase)
- 6. Now your keys should be generated
- 7. Now copy the public key to your remote server using the command "ssh-copy-id -i /root/.ssh/id_rsa.pub root@"your remote ip"
- 8. Now public key should have been added now
- Now try to login remote server using ssh root@"youripaddress" it should not prompt for the password you should be logged in successfully

The local server is **root@192.168.56.103**The remote server is **root@192.168.56.101**

```
root@192.168.56.103's password:
Last login: Sat Aug 12 14:58:19 2023
[root@localhost ~]# cd .ssh
[root@localhost .ssh]# ls
[root@localhost .ssh]# cd
```

```
[root@localhost .ssh]# ssh-copy-id -i /root/.ssh/id_rsa.pub root@192.168.56.101
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id_rsa.pub"
The authenticity of host '192.168.56.101 (192.168.56.101)' can't be established.

ECDSA key fingerprint is SHA256:krhF3z6WR+DSpCMaLbVJUgbVDS3CJc70R0uyGyPNw3E.

ECDSA key fingerprint is MD5:be:10:33:f2:dc:a7:86:f0:32:25:ce:87:50:e8:1f:82.

Are you sure you want to continue connecting (yes/no)? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
root@192.168.56.101's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'root@192.168.56.101'"
and check to make sure that only the key(s) you wanted were added.

[root@localhost .ssh]# ssh root@192.168.56.101

Last login: Sat Aug 12 20:37:53 2023 from 192.168.56.1

[root@localhost ~]#
```