



[root@zmpt01 ~]# ssh zafar@71.57.95.5

The authenticity of host '71.57.95.5 (71.57.95.5)' can't be established.

ECDSA key fingerprint is SHA256:6C8O0slMqNbzLMaV2Lm4OrBh29qCtTHeoFi1bgRY6BQ.

ECDSA key fingerprint is MD5:bb:19:a3:ed:01:6d:8e:c5:6a:b7:3c:35:8b:ea:3f:97.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '71.57.95.5' (ECDSA) to the list of known hosts.

zafar@71.57.95.5's password:

[root@zmpt01 .ssh]# pwd
/root/.ssh

[root@zmpt01 .ssh]# cat known_hosts

192.168.56.109 ecdsa-sha2-nistp256

AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBOPP3wf/x3cI2qcKmTcH4KPch JHdTAHRnnO4ASznR9xZ06KCsbWyXQoj/5p+E85DH9cFmCKh+5rFED8bQZfKH2Q=

71.57.95.5 ecdsa-sha2-nistp256

AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBNXZK5HP3F1AdNYJ5gKTio6z/uJcDzAAdDPlcolYXUBd+r6Qv2PJqXiSq6OlMJrXUDxdTsfr4SofXL6bQWCX59Y=

Passwordless SSH

[root@zmpt01.ssh]# ssh-keygen

Generating public/private rsa key pair.

Enter file in which to save the key (/root/.ssh/id_rsa): < --- Hit Enter Enter passphrase (empty for no passphrase): < --- Hit Enter Enter same passphrase again: < --- Hit Enter

Your identification has been saved in /root/.ssh/id_rsa. < --- Generates Private Key Your public key has been saved in /root/.ssh/id_rsa.pub. < --- Gererates Public Key

The key fingerprint is:

SHA256:PFH7mLOaE/vac1SEZ867YhYKusl1PwNJ7UpSzHI3RSE root@zmpt01.prod.zmprotech.com The key's randomart image is:

```
+---[RSA 2048]----+
| .Eoo. |
| ....= |
| .o.. B |
| ....*+++ |
| S=++.o. |
| +.+o+. |
| ..*o=..|
```



[root@zmpt01 .ssh]# ssh-copy-id 192.168.56.109

/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id_rsa.pub"

The authenticity of host '192.168.56.109 (192.168.56.109)' can't be established.

ECDSA key fingerprint is SHA256:e3LN1URGQEPwXaMbDeo+aTYev2cOOWnP3WKmaRG9gRU.

ECDSA key fingerprint is MD5:de:11:30:dd:ef:9e:ae:0a:ab:49:16:29:c9:08:36:8f.

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@192.168.56.109's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh '192.168.56.109" and check to make sure that only the key(s) you wanted were added.

[root@zmpt01 ~]# ssh 192.168.56.109

Last login: Sun Nov 29 16:49:50 2020 from 192.168.56.250

[root@zmpt02 ~]# hostname zmpt02.prod.zmprotech.com

[root@zmpt02 ~]# cd .ssh/



[root@zmpt02 .ssh]# ls -la

total 4

drwx-----. 2 root root 29 Nov 29 16:20 . dr-xr-x---. 3 root root 123 Nov 29 16:20 ..

-rw-----. 1 root root 412 Nov 29 16:20 authorized_keys < --- New file with authorized keys of

known hosts

[root@zmpt01 .ssh]# cat id rsa.pub

ssh-rsa

AAAAB3NzaC1yc2EAAAADAQABAAABAQC4xSOCeATZnKwEUTzSoKns4zEioGBP3uUq9bXVZ1CTIKtGMx 4snlq6q

+/q331sGFKZsEMdgxMaGLy3/mp6bl5Nv2D1LeqCVvkmoeW5+rEWn853ggV2Syjigo2UrXqnVUK05Ks6c AmlqPYC3TWvmTH

nbSMKqbfQGKykxEkF0Xv/CRm3FSyVW7S1Aq5yPavAQa0+TFkaxBUO7Ooy+3QZ6Jolb8UiQROo7WdPAkITAOUJoYTVHujKBh

D9Pf21PutmdiKhqHUX2rlw1HJmUJQFYRBwlJ3INd+Q9qDjllQ1wiPyi/XpmoenGkHjqEXjsQzJGEAQtFd9ay Mybdh+TNnb/

xCX root@zmpt01.prod.zmprotech.com

[root@zmpt02 .ssh]# cat authorized_keys

ssh-rsa

AAAAB3NzaC1yc2EAAAADAQABAAABAQC4xSOCeATZnKwEUTzSoKns4zEioGBP3uUq9bXVZ1CTIKtGMx 4snlq6q

+/q331sGFKZsEMdgxMaGLy3/mp6bl5Nv2D1LeqCVvkmoeW5+rEWn853ggV2Syjigo2UrXqnVUK05Ks6c AmlqPYC3TWvmTH

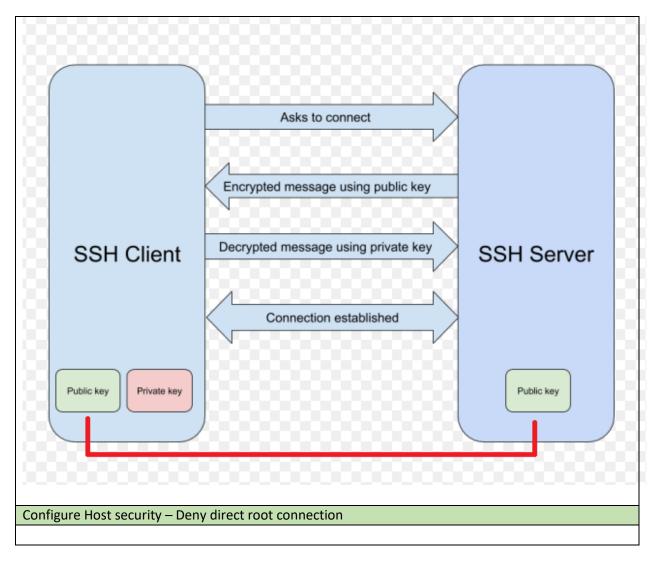
nbSMKqbfQGKykxEkF0Xv/CRm3FSyVW7S1Aq5yPavAQa0+TFkaxBUO7Ooy+3QZ6Jolb8UiQROo7WdPAk ITAOUJoYTVHujKBh

D9Pf21PutmdiKhqHUX2rlw1HJmUJQFYRBwlJ3INd+Q9qDjllQ1wiPyi/XpmoenGkHjqEXjsQzJGEAQtFd9ay Mybdh+TNnb/

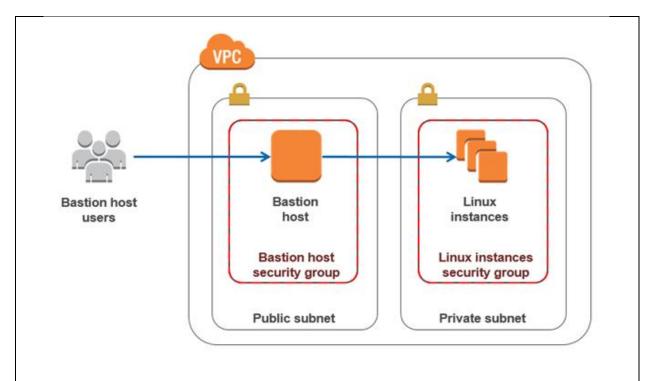
xCX <u>root@zmpt01.prod.zmprotech.com</u>

NOTE: This is good only for each specific user, you have to establish same connection for each user









Secure the server

zmpt02.prod.zmprotech.com

[root@zmpt02 ~]# vi /etc/ssh/sshd_config

PermitRootLogin no < ---root login line is uncommented and changed to no from yes

Restart the service

[root@zmpt02 ~]# systemctl restart sshd < --- Change will take affect after restart of service

[root@zmpt01 ~]# ssh 192.168.56.109 root@192.168.56.109's password: Permission denied, please try again.

Deny access fro mspecific network

[root@zmpt02 ~]# vi /etc/ssh/sshd_config

ListenAddress 0.0.0.0

ListenAddress 192.168.56.0/24



[root@zmpt01 ~]# ssh 192.168.56.109 ssh: connect to host 192.168.56.109 port 22: Connection refused

Allow only specific users

[root@zmpt02 ~]# vi /etc/ssh/sshd_config #< --- Add line at the end of file

AllowUsers terminator