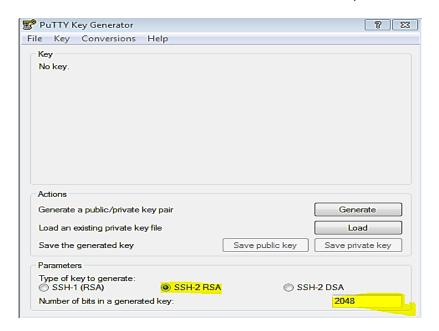
Author: Sampath Kunapareddy sampath.a926@gmail.com

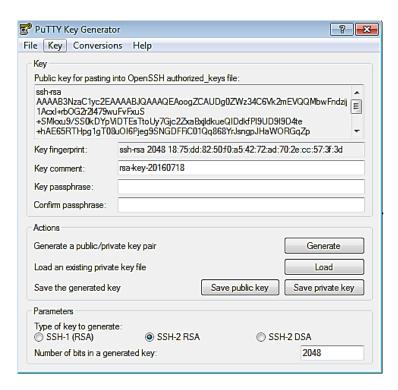
SSH keys setup for password less login to Linux servers and ability to SSH from JUMP

1. Generate SSH key pair:

- Select SSH2-RSA and a minimum 2048 or 4096 bit key and click Generate

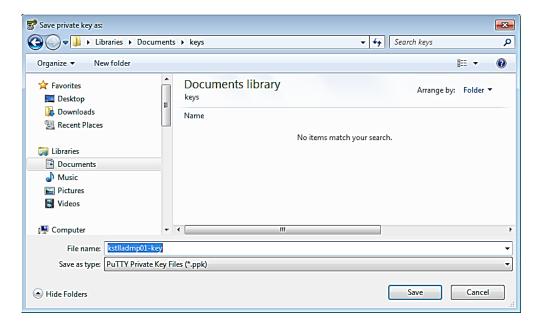






- Copy private key to a secure location on your local machine. DO NOT share private key with any
 person or application. If private key is shared by mistake, please generate a new key pair and delete
 old key pair.
- Click on "Save private key" without passphrase. If saved with a passphrase for more security, you will need to use this passphrase whenever key is used.
- Save to your local laptop location. For example as below:

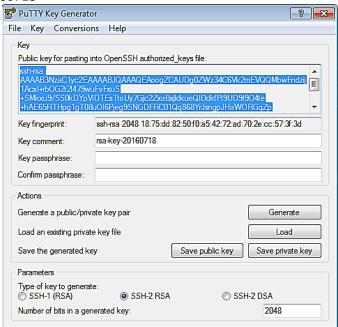




Copy public key and paste into your home: ~/.ssh/authorized_keys as below

For example, copy public key:

ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAQEAoogZCAUDg0ZWz34C6Vk2mEuS+*****something will be here*******ZA 8jbL0T9Ax0aokXf6HnYFWytPs0L3KzLnXQ+zm7M9QvYa+wHiF3ae9q62JYw== **rsa-key**-20160718

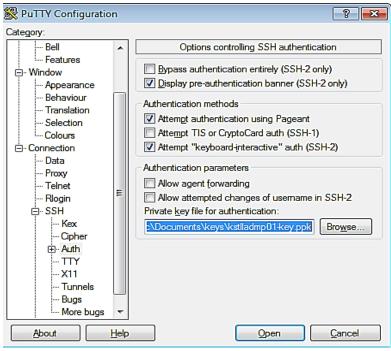


Login into host (JUMP HOST - where you want the password less login and password less SSH) to be setup and paste public key to below file:

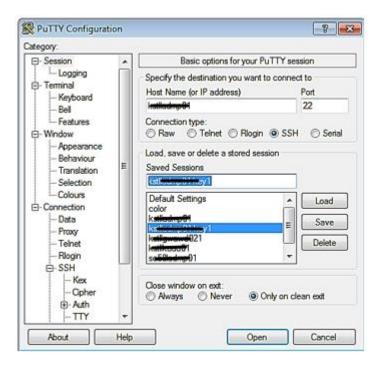
→ vi ~/.ssh/authorized_keys:

2. Login using ssh keys from PUTTY:

Open putty session. Expand -> SSH -> Auth -> click Browse and provide private key location



Enter host details ((JUMP HOST - where you want the password less login and password less SSH) - (also select Default Settings and save for better results)



Successful login without password will be successful now for that particular host where you did

vi ~/.ssh/authorized_keys and copied the keys..

For ALL/set of hosts this can be done by using below script...

<u>Keys setup for password-less login for servers in DMZ – password-less login from</u> jump/bastion servers to app servers:

Generate ssh key pair on jump server/bastion host, example below:

```
[usernameadm@JUMPHOST ~]$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/home/usernameADM/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
                                                              - PRESS ENTER
Enter same passphrase again:
                                               - PRESS ENTER
Your identification has been saved in /home/usernameADM/.ssh/id_rsa.
Your public key has been saved in /home/usernameadm/.ssh/id_rsa.pub.
The key fingerprint is:
ae:da:f8:0b:b3:78:f1:2b:70:c9:3b:47:a9:01:45:fd
The key's randomart image is:
+--[ RSA 2048]----+
l ...
| ..
| . E
0..8
. * o.
OOB .
 .**0.
```

Copy public key generated above – id_rsa.pub to destination server in DMZ @ .ssh/authorized_keys.
 This will enable password-less authentication between jump server/bastion host to servers in DMZ.
 Example below:

[usernameadm@JUMPHOST ~]\$ cat .ssh/id_rsa.pub | ssh usernameadm@hostname1 "mkdir .ssh && cat >>.ssh/authorized_keys"

or if .ssh directory is already existing on destination server in your home directory, just copy the public key using: [usernameadm@ JUMPHOST ~]\$ cat .ssh/id_rsa.pub | ssh usernameadm@hostname1 "cat >>.ssh/authorized_keys"

Skip above manual steps by running below scripts:

Login to appropriate Bastion/Jump host and following below:

Change to ~/.ssh dir

[usernameadm@JUMPHOST ~]\$

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- Please run above steps in the document to create authorized_keys and id_rsa.pub files.
- cd ~/.ssh/
- "Is –Irt" must show below files:
 - o id rsa
 - o id_rsa.pub
 - o authorized_keys
- reate a file "vi ssh_keys_copy.sh" and copy contents from URL:
- chmod 755 ./ssh_keys_copy.sh
- ./ssh_keys_copy.sh

Note:

>Provide the password when prompted

>list of servers are present under "servers_list" dir., pick a list based on requirement or create a new file

Example:

./ssh_keys_copy.sh "./servers_list/ servers_list_nextgen" "Pxxxxxxxxadm or Vxxxxxx"

Now we can able to login without password and able SSH from bastion/jump servers without asking for password...

Note: In order to copy keys to all servers we should have "home dir." on servers, in case you are missing it please raise a request for UNIX team to create one...

To check servers missing home dir., please run the following script as below – this doesn't require a home dir. in bastion host.

./homecheck.sh "server_list(or) server" "uid"

Above script will prints and also create a file under **/tmp_stage/"uid"/** with list of servers, which you can use for creating a request for UNIX team.