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## Windows ssh server setup and configuration

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For one of our projects we had requirement of accessing windows machines from linux environments to run few scripts for deployment. After little search we settled for openssh server for ssh connections and cygwin for script run in windows with public key authentication to have passwordless authentication.

Below are the steps needs to be followed to achieve the same.

1. Download latest OpenSSH for your windows server from

#### Windows SSH server Download

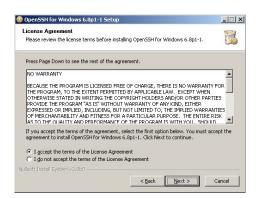
- 2. We have used currently latest setupssh-6.8p1-1 version for this tutorial.
- 3. Double click on the

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setupssh-6.8p1-1.exe file and click on next button.



4. Click on Next button and accept the license agreements.

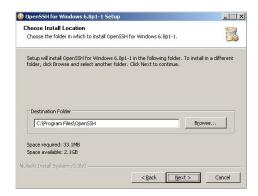


5. Choose all the components and click on Next button.



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6. Click on Next button keeping the location default.



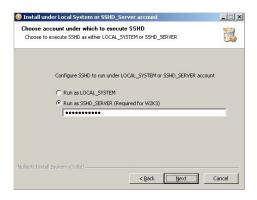
7. Click on Next button.



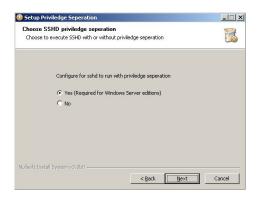
8. Choose Run as SSHD\_SERVER option and click on next after providing some password. (This option is required for password less authentication).

Note: Keep the password provided by you in some notepad as this needs to be used while authenticating for the first time before configuring the password less authentication mechanism.

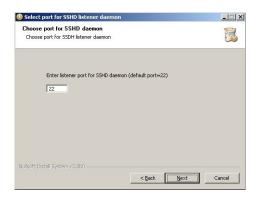
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9. Choose SSHD privilege seperation – Yes



10. Keep the default port as 22 and click on Next button.



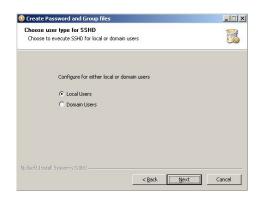
11. Keep the default key generation bits and click on Next button.



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12. According to your requirement choose local or domain users option.



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13. Wait for the installation to complete. You might see some flash command prompts during the installation.



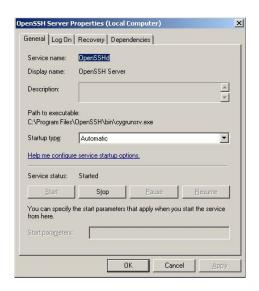
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14. Click on Finish button to complete the installation.





15. This completes the installation of OpenSSH server. Make sure you have the new openSSH service created in services.msc panel. Make sure you are able to start the service successfully.



For password less authentication or public key authentication configuration

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# follow below steps:

- 1. Stop the SSHD service from services.msc console.
- 2. cd to C:\Program
  Files\OpenSSH\etc and open
  sshd\_conf file in any text editor.
  Modify/Add below details.

PermitRootLogin yes
StrictModes no
RSAAuthentication yes
PubkeyAuthentication yes
AuthorizedKeysFile .ssh/a
uthorized\_keys
IgnoreUserKnownHosts yes

3. cd to C:\Program
Files\OpenSSH\etc and open
ssh\_config file in any text editor.
modify/Add below details.

RhostsRSAAuthentication
yes
RSAAuthentication yes
PasswordAuthentication
yes

4. Restart the SSHD server either using the command prompt in administrative mode

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or using the services.msc console to make the changes take effect.

- 5. Once Restart completes successfully. Use putty or similar software to login to the Linux machine from where you want password less authentication or public key authentication setup.
- Try logging in to the windows host using the password to make sure connection is getting established.

```
ssh
windows_user@windows_host
_name
```

6. Generate the RSA keys like below:

[root@MyLinuxMachine ~]#
ssh-keygen -t rsa
Generating public/private
rsa key pair.
Enter file in which to
save the key
(/root/.ssh/id\_rsa):
Enter passphrase (empty
for no passphrase):
Enter same passphrase
again:

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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: 74:4a:71:b9:ab:cb:96:cc:6 8:77:c7:0e:19:bd:3b:ef root@MyLinuxMachine

7. Now execute below command to copy the keys to the windows machine for password less authentication.

ssh-copy-id
windowsusername@mywindows
machine

if you get below error and sshcopy-id fails to copy to your windows machine then follow below steps to manually copy the keys.

246 [main] cat (61540)
D:\cygwin64\bin\cat.exe:
\*\*\* fatal error - cygheap
base mismatch detected 0x1802F1408/0x1802FA400.
This problem is probably
due to using incompatible
versions of the cygwin

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DLL. Search for cygwin1.dll using the Windows Start->Find/Search facility and delete all but the most recent version. The most recent version \*should\* reside in x:\cygwin\bin, where 'x' is the drive on which you have installed the cygwin distribution. Rebooting is also suggested if you are unable to find another cygwin DLL. /bin/sh: line 1: 60464 Segmentation fault cat >> .ssh/authorized keys Now try logging into the machine, with "ssh 'windowsusername@windows machine\_name'", and check in: .ssh/authorized keys to make sure we haven't added extra keys that you weren't expecting.

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- Create a .ssh folder
under C:\Program
Files\OpenSSH\home\WINDOW!
folder. Example: winrmuser
under we have created a
folder .ssh like below
screenshot.



Create a file
called authorized\_keys in
notepad and add below output
from the public key generated
at the Linux Host.

[root@My\_Linux\_Machine ~] # cat /root/.ssh/id\_rsa.pub ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAA QEAyvWG3GMENjaoUxJtDgVe2D 1mTcxJG4r70Jmf6NPXf0mlfLX mwmCRceflpXvMmor7B2OAZEUs kuv2WNiyyjB0+sqIN4sRvJvxN EJVxKM8C/eNTOxBHIabAR+KM1 Gyw2M8P+NdEEx70gi5kKn8jq0 51uWnaerBgiIdrIoDeLhzS932 SEiyooAlfxGvQwh1hLzYckJUX 9XI81IUZmXqHY2OTzoYE2ZsZb KeznJ8tc3h9R9+lp0A+n2ZvIH wqe5zsJiLk8eQ5pllBrIeGYbP ujreb9XjQoKJjGPMSdlBPNKEO giLPVXUbf1QIWjjSZxXQ5JMlm aClxeM4QR7tDlQS9zufQ== root@My\_Linux\_Machine

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- Save the file.
- 8. Now try to login from the linux host using the same username and windows hostname. It will not ask for username and password and

will directly login to your windows host.

ssh
windows\_user@windows\_host
\_name

### Troubleshooting:

Incase the service fails to install or fails to start after install then follow below steps to fix it.

Note: You might need cygwin utilities installed incase below commands are not available

Make sure below config is there in PATH in sysdm.cpl if not add it.

%SystemRoot%
\system32;%SystemRoot%;%System32
\Wbem;%SYSTEMROOT%
\System32
\WindowsPowerShell\v1.0
\;C:\Program
Files\Microsoft\Web Platform
Installer\;

Go to the OPENSSH Home folder and run below command

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chmod 700 /var/empty

run below command to check the local users available:

mkpasswd -l

Search for the sshd\_server username and execute the command like below to change the ownership.

chown
WINDOWS\_HOSTNAME+sshd\_se
/var/empty

Now try to start the service and check the logs if does not start: cat /var/log/sshd.log

you can run below command to check if the service has started listening on port number 22.

netstat -an | find "22"

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