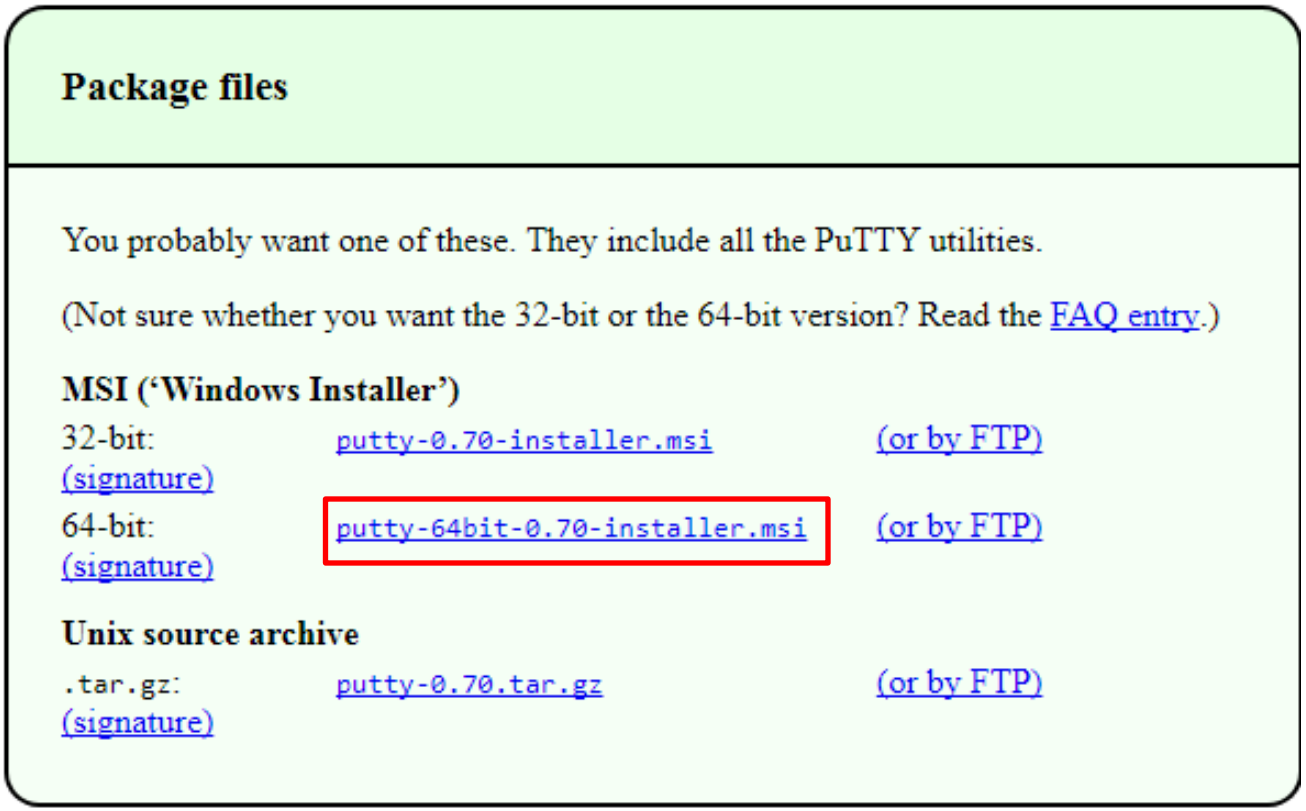
Lab 01

Connecting Putty to Azure

Deep Azure

Download Putty

- Go to https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html
- Click 64 bit installer and install Putty with default options



Package files

You probably want one of these. They include all the PuTTY utilities.

(Not sure whether you want the 32-bit or the 64-bit version? Read the FAQ entry.)

MSI ('Windows Installer')

32-bit: putty-0.70-installer.msi (or by FTP) (signature)

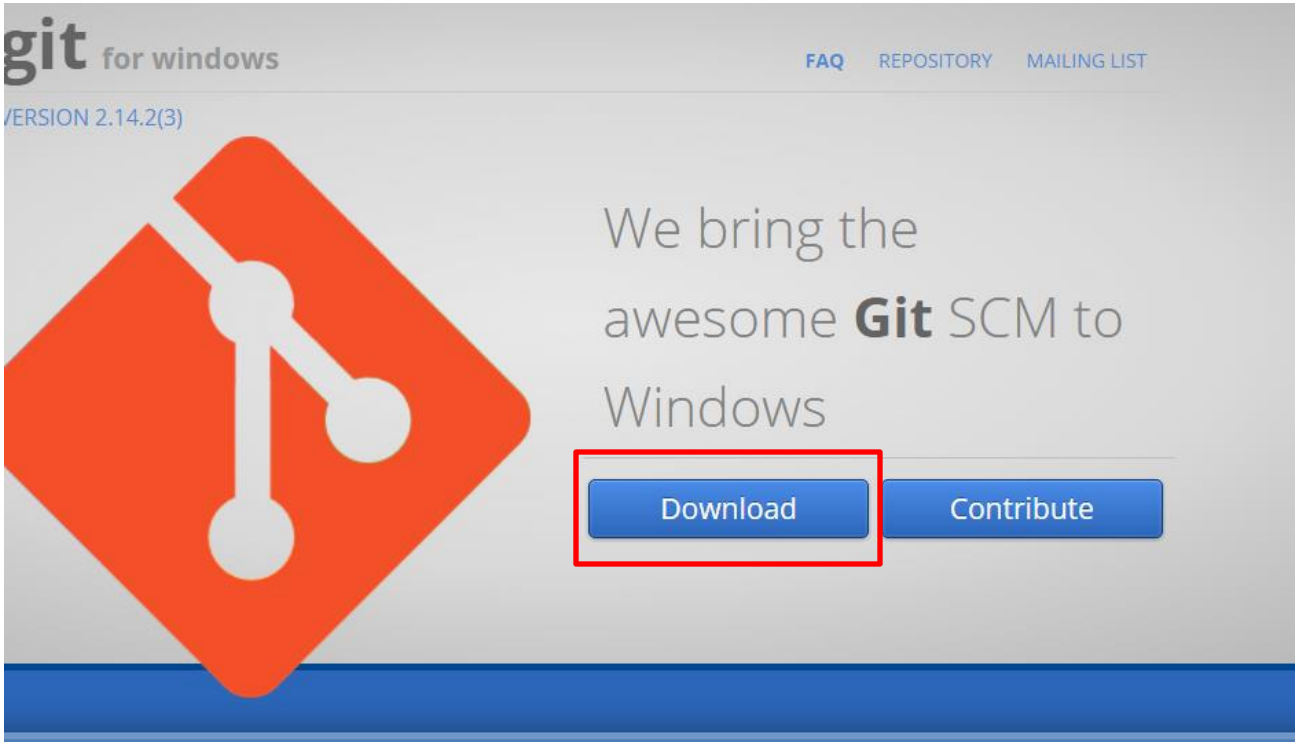
64-bit: putty-64bit-0.70-installer.msi (or by FTP) (signature)

Unix source archive

.tar.gz: putty-0.70.tar.gz (or by FTP) (signature)

Install Git for Windows

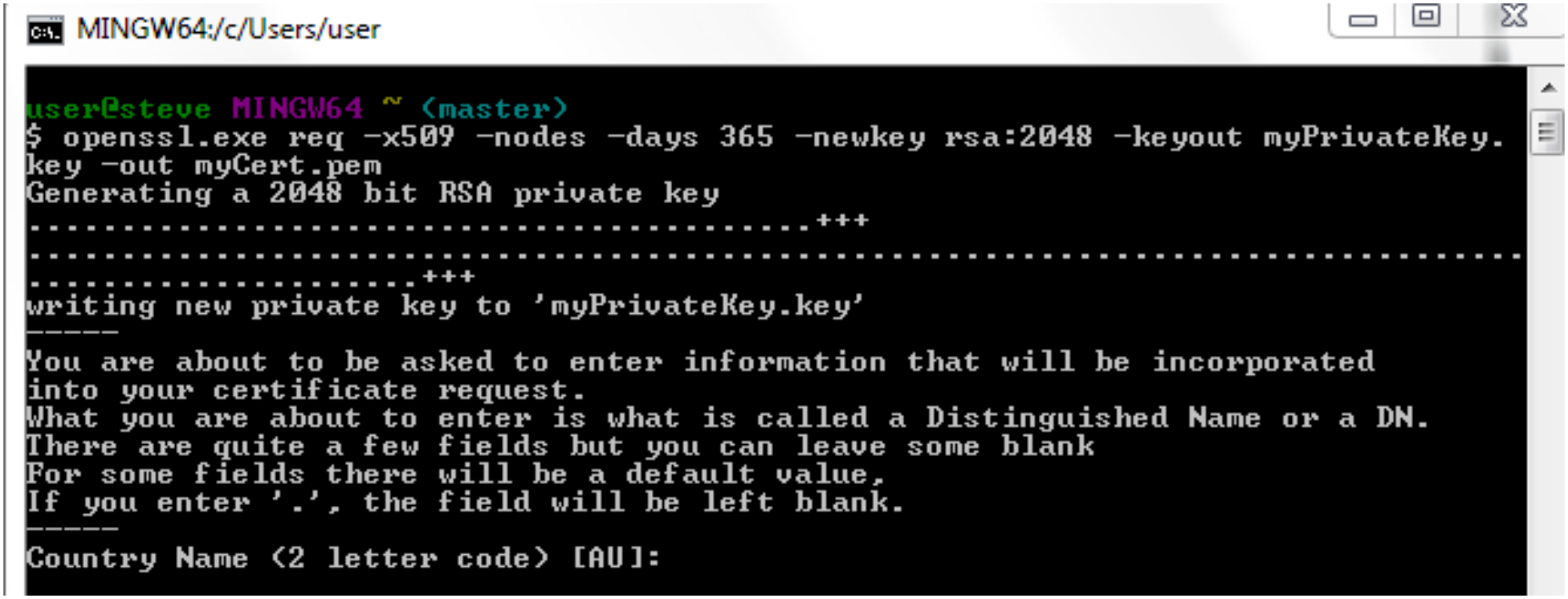
- Go to https://git-for-windows.github.io/
- Click Download and use all default settings



Create a Private Key

- In a Git Bash window type in the following

openssl.exe req -x509 -nodes -days 365 -newkey rsa:2048 -keyout \
myPrivateKey.key -out myCert.pem

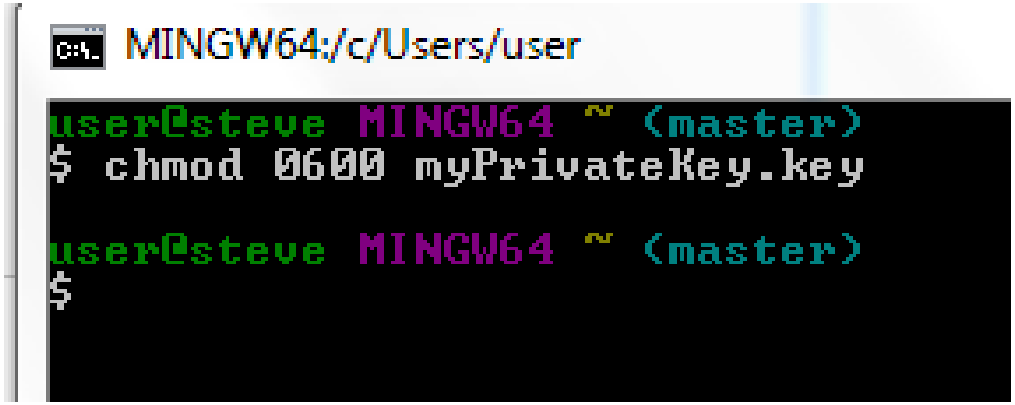


Create a Private Key

- Enter in the Requested Information

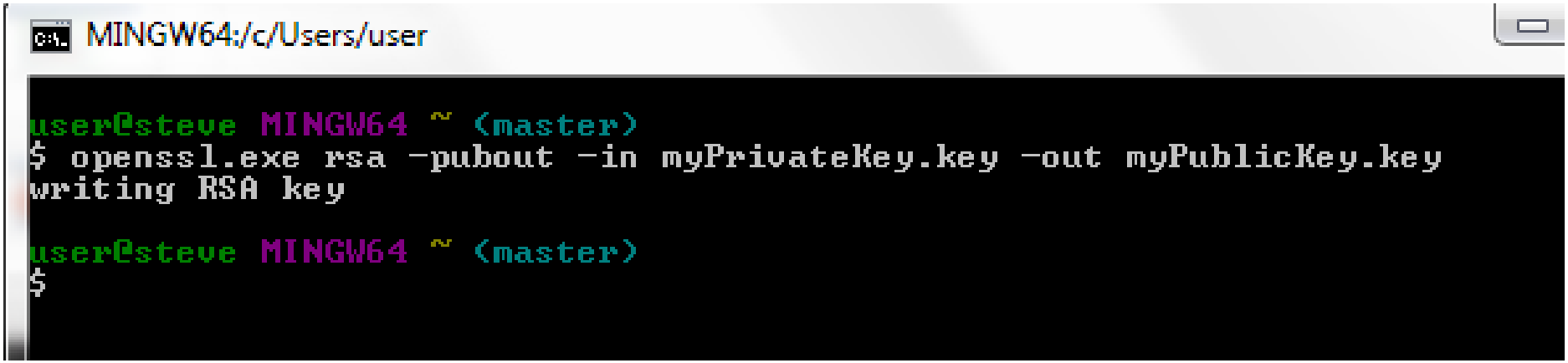
Set Security Permissions

- Type chmod 0600 myPrivateKey.key so that only you can access it



Generate a public key

- Type in the following to generate a public key



Create a private key for Putty

- In Git bash type the following to convert your private key into an RSA private key that PuTTYgen can understand

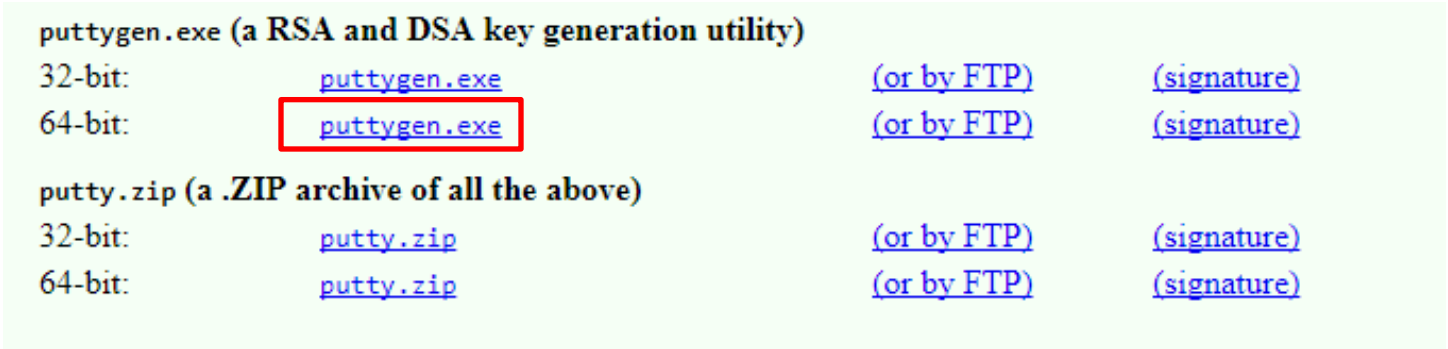
```
user@steve MINGW64 ~ (master)
$ openssl rsa -in ./myPrivateKey.key -out myPrivateKey_rsa
writing RSA key
```

Set permissions

- Type in the following to set the permissions on your private key so that only you can access it

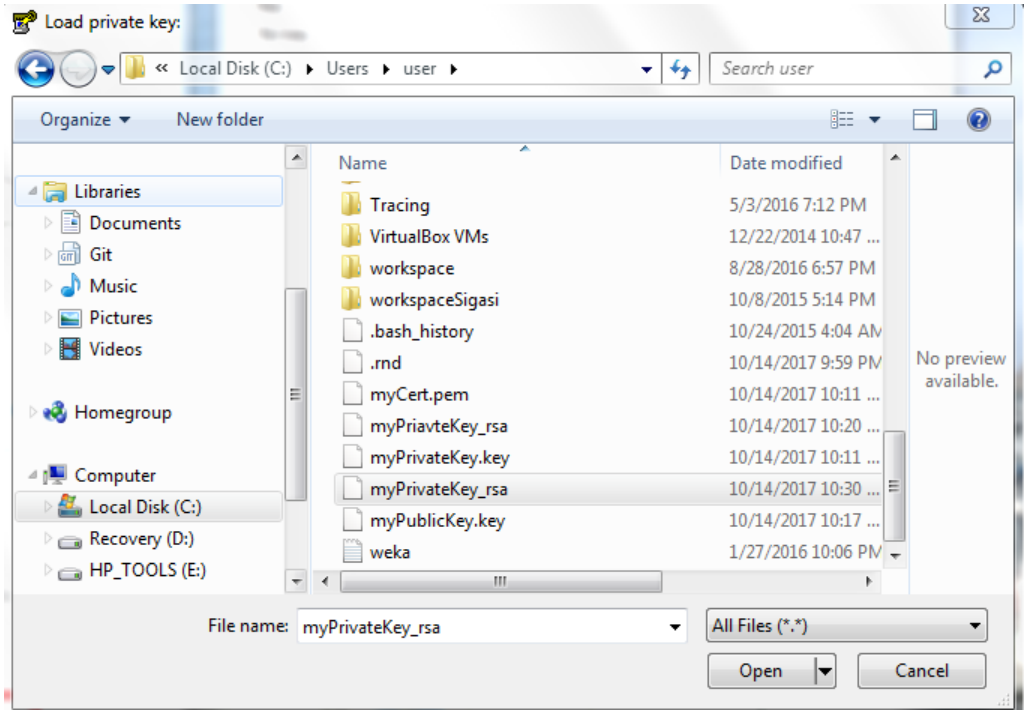
Download PuttyGen

- Go to https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html
- Go to the “Alternative Binary Files” section
- Click on the puttygen.exe link



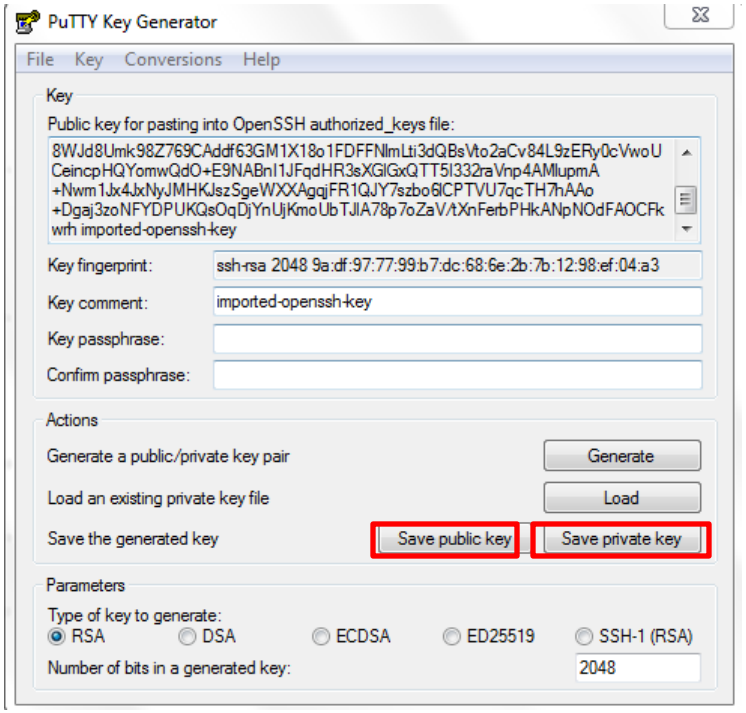
PuttyGen

- In PuttyGen select File > Load Private Key
- When the window to select a file pops up select “all files” from the dropdown menu to display files of all types
- Navigate to the directory you were in within Git bash
  - Use pwd to figure out what directory you are in
- Select the “myPrivateKey_rsa and hit open



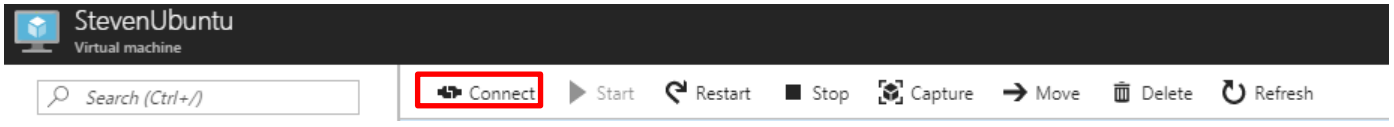
Save your keys

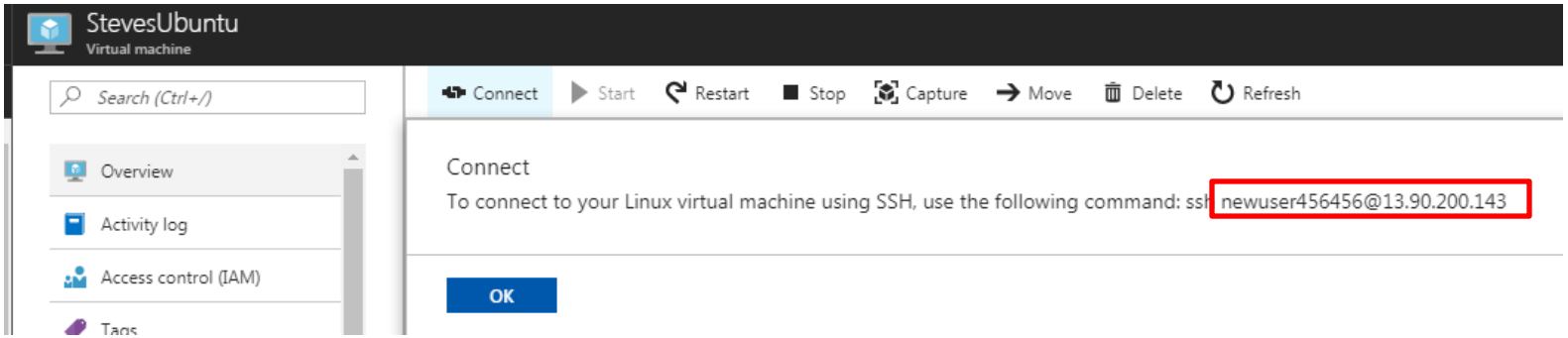
- In the bottom right of the window save your public key in a convenient location
- In the bottom right of the window save your private key in a convenient location
- You can assign a password if you wish to be more secure



Connect to VM with Putty

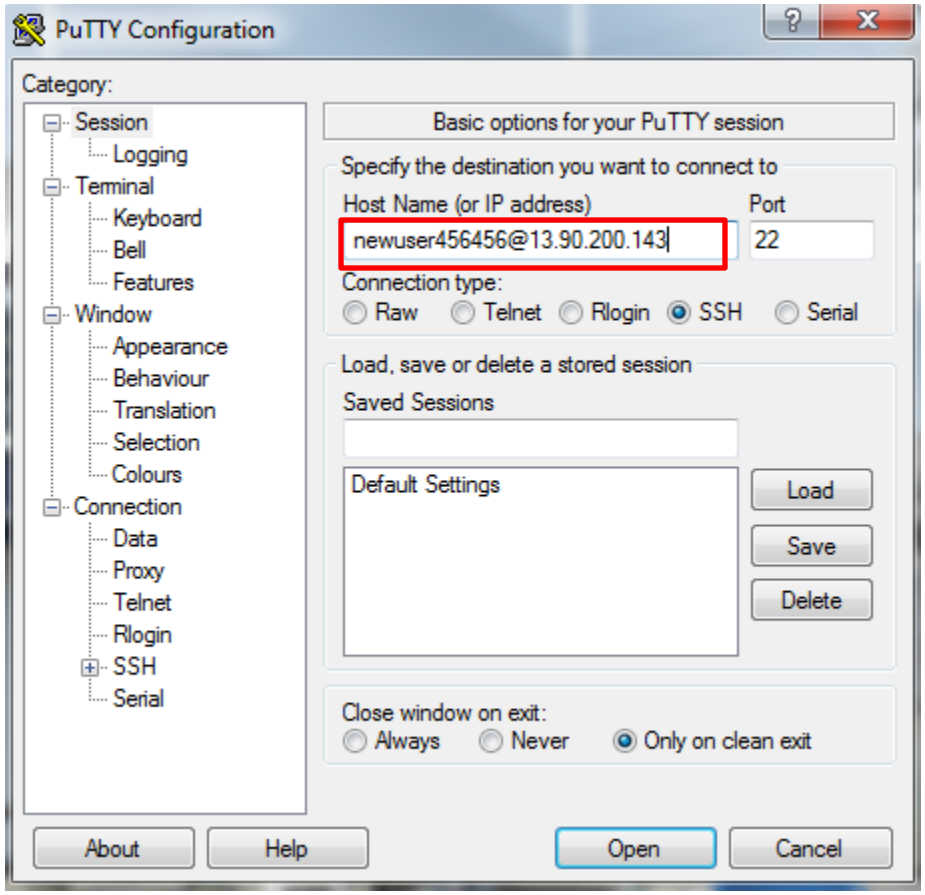
- Create and launch an Azure VM and hit the connect button to obtain the ssh name for your vm





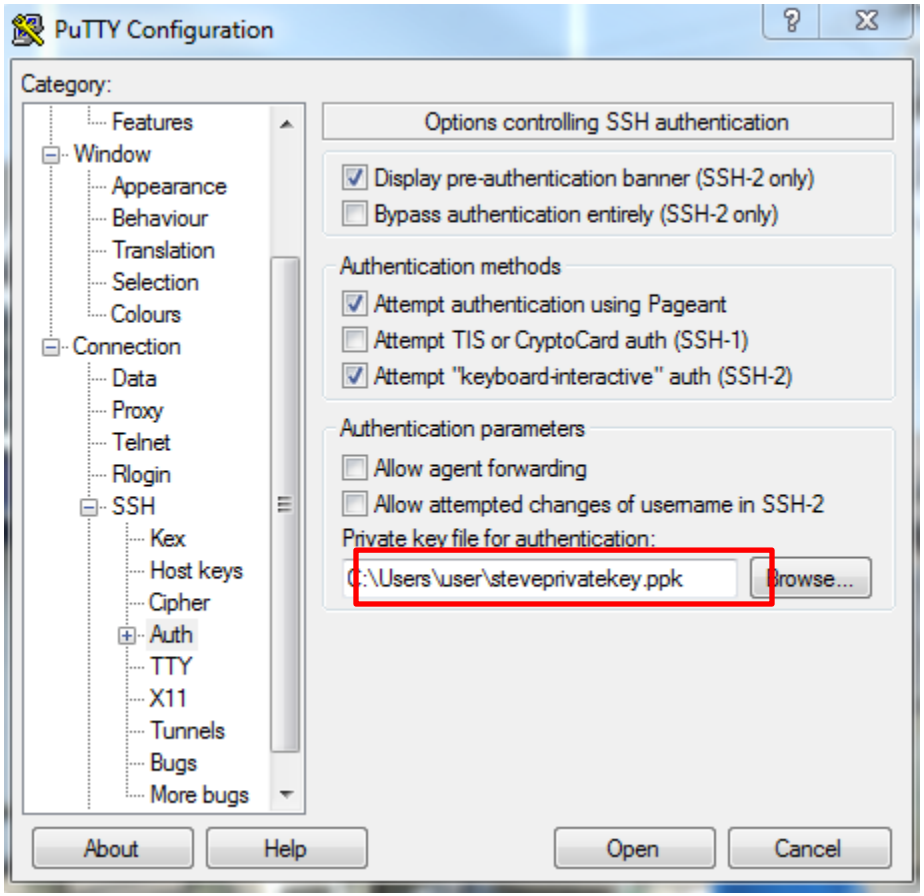
Connect to your VM with Putty

- Add the ssh name from the previous slide to the red box
- Don’t hit open yet!



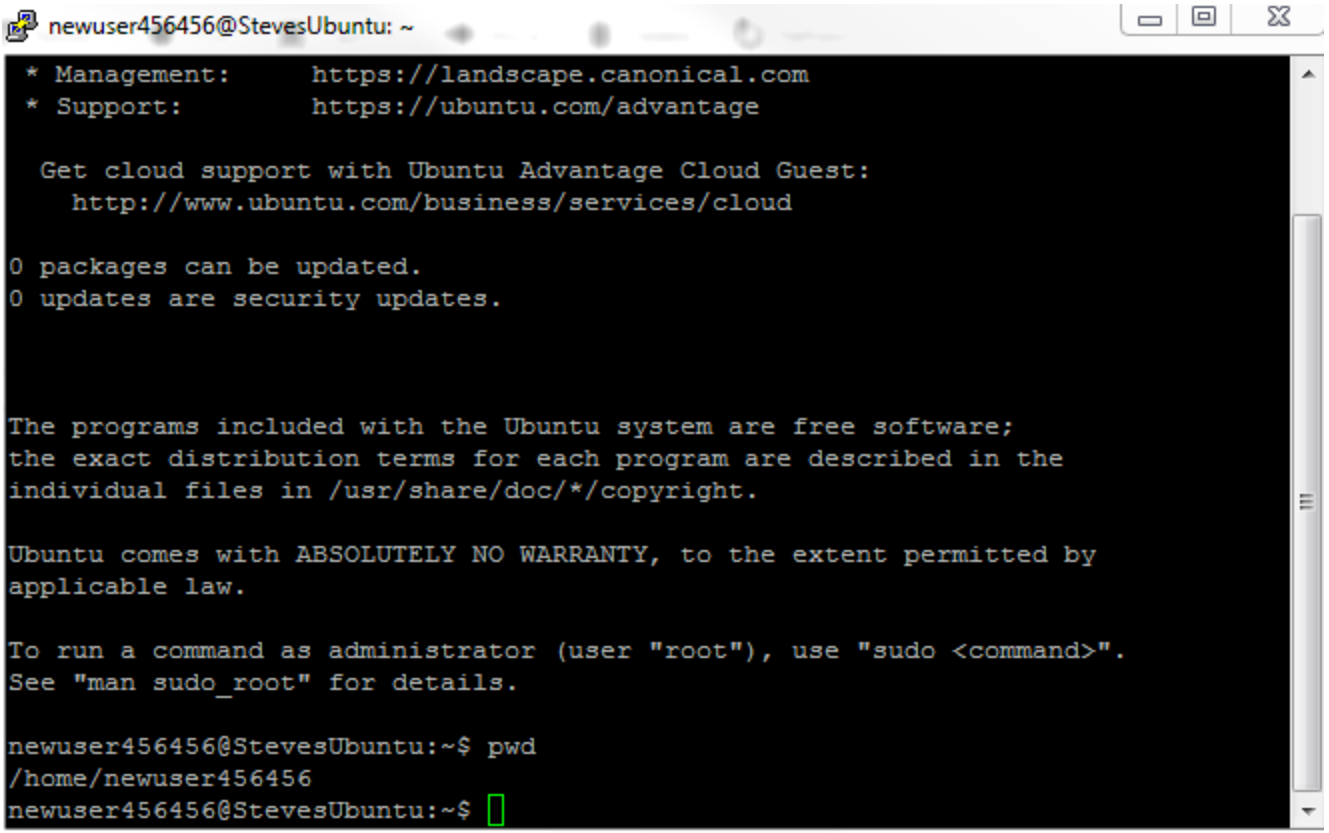
Connect to your VM with Putty

- Go to connection > SSH > Auth and browse for your private key
- Hit open and connect to your Azure VM!



Access your VM

- Your VM should look something like this…
- This shows the home directory in Ubuntu after a successful Putty connection.



@Nishava