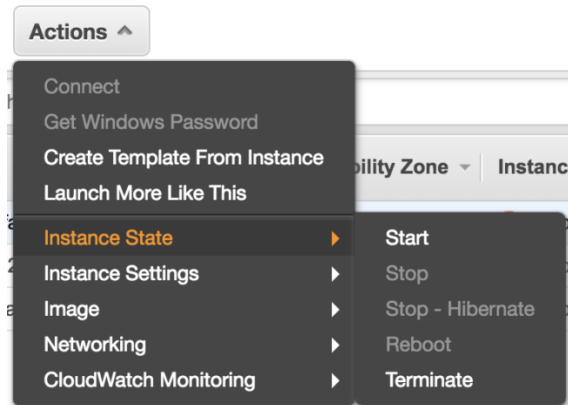


MagnaChain One Click Deployment

Connect with Windows Client

1) Start the Instance



2) Add incoming SSH Rules on instance

Instance: i-08a94d58315fa2370		Public DNS: ec2-13-229-69-87.ap-southeast-1.compute.amazonaws.com	
Description		Status Checks	
Instance ID		i-08a94d58315fa2370	
Instance state		running	
Instance type		t2.micro	
Elastic IPs			
Availability zone		ap-southeast-1b	
Security groups		launch-wizard-3 · view inbound rules · view outbound rules	
Scheduled events		No scheduled events	
AMI ID		MagnaChain (ami-0aa1eb22cbd6b5d61)	
Platform		-	
IAM role		-	
Key pair name		maonachaintest	
Public DNS (IPv4)		ec2-13-229-69-87.ap-southeast-1.compute.amazonaws.com	
IPv4 Public IP		13.229.69.87	
IPv6 IPs		-	
Private DNS		ip-172-31-20-162.ap-southeast-1.compute.internal	
Private IPs		172.31.20.162	
Secondary private IPs			
VPC ID		vpc-8cb494eb	
Subnet ID		subnet-761f0b11	
Network interfaces		eth0	
Source/dest. check		True	
T2/T3 Unlimited		Disabled	

2.1 On the instance Dashboard bottom you have details for the instance. Click on the Description tab and then “launch-wizard-3” at Security groups

Group ID : sg-02a873713afad9804

Add filter

1 to 1 of 1

Name	Group ID	Group Name	VPC ID	Description
	sg-02a873713afad9804	launch-wizard-3	vpc-8cb494eb	launch-wizard-3 created 2018-12-19T07:29:30.697+07:00

Security Group: sg-02a873713afad9804

DescriptionInboundOutboundTags

Group name

launch-wizard-3

Group description

launch-wizard-3 created 2018-12-19T07:29:30.697+07:00

Group ID

sg-02a873713afad9804

VPC ID

vpc-8cb494eb

2.2 Click on Tab Inbound and then Edit

Create Security GroupActions

Group ID : sg-02a873713afad9804

Add filter

1 to 1 of 1

DescriptionInboundOutboundTags

Edit

2.3 Add a new rule for SSH and select in Source “My IP” and save it.

Edit inbound rules

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
SSH	TCP	22	Custom CIDR, IP or Security Group	e.g. SSH for Admin Desktop

Add Rule

Custom
Custom
Anywhere
My IP

NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

Cancel

Save

3) Install PuTTY on your windows System – goto the Website <https://www.putty.org>

Download PuTTY - a free SSH an... x

← → ↻ https://www.putty.org ☆ ⓘ ⋮

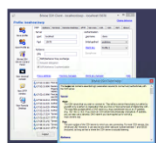


Download PuTTY

PuTTY is an SSH and telnet client, developed originally by Simon Tatham for the Windows platform. PuTTY is open source software that is available with source code and is developed and supported by a group of volunteers.

You can download PuTTY [here](#).

Below suggestions are independent of the authors of PuTTY. They are *not* to be seen as endorsements by the PuTTY project.

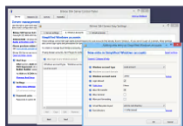


Bitvise SSH Client

Bitvise SSH Client is an SSH and SFTP client for Windows. It is developed and supported professionally by Bitvise. The SSH Client is robust, easy to install, easy to use, and supports all features supported by PuTTY, as well as the following:

- graphical SFTP file transfer;
- single-click Remote Desktop tunneling;
- auto-reconnecting capability;
- dynamic port forwarding through an integrated proxy;
- an FTP-to-SFTP protocol bridge.

Bitvise SSH Client is **free to use**. You can [download it here](#).

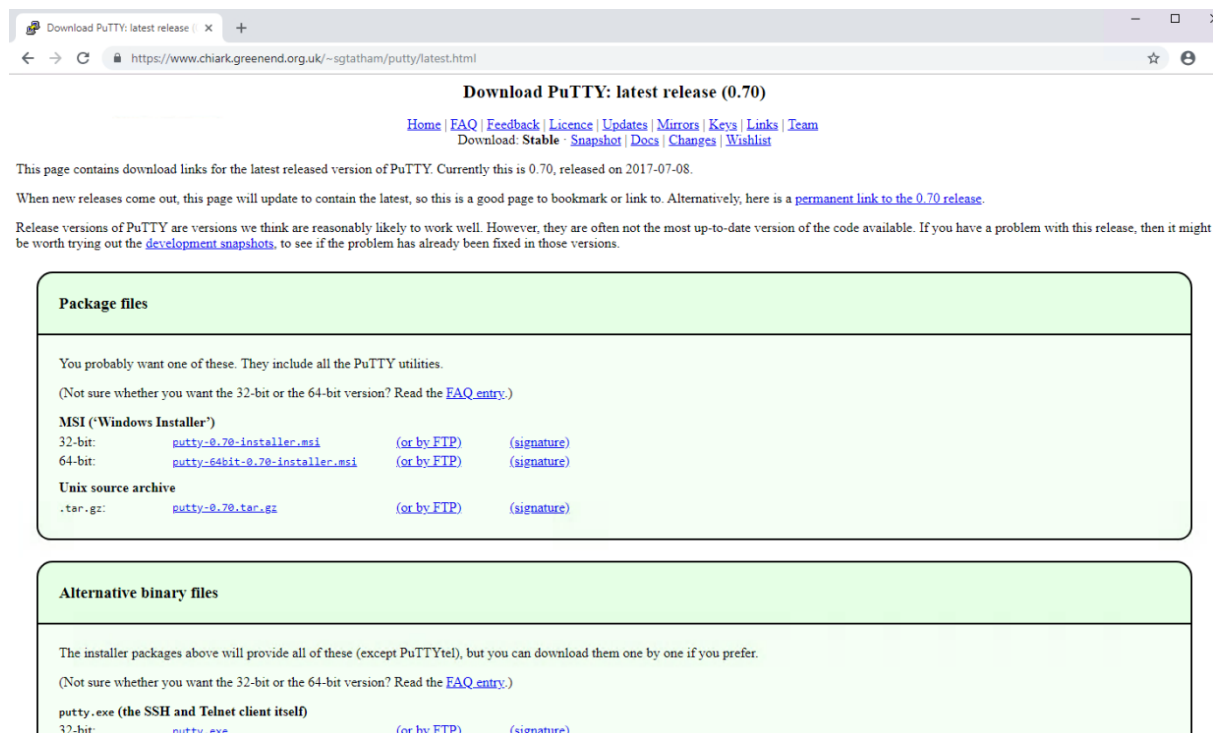


Bitvise SSH Server

Bitvise SSH Server is an SSH, SFTP and SCP server for Windows. It is robust, easy to install, easy to use, and works well with a variety of SSH clients, including Bitvise SSH Client, OpenSSH, and PuTTY. The SSH Server is developed and supported professionally by Bitvise.

You can [download Bitvise SSH Server here](#).

3.1 Click the first Download Link and download the 64-bit installer.msi file



The screenshot shows a web browser window with the address bar displaying <https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>. The page title is "Download PuTTY: latest release (0.70)". Below the title, there are navigation links: [Home](#), [FAQ](#), [Feedback](#), [Licence](#), [Updates](#), [Mirrors](#), [Keys](#), [Links](#), and [Team](#). Below these are download links: [Download: Stable](#), [Snapshot](#), [Docs](#), [Changes](#), and [Wishlist](#).

This page contains download links for the latest released version of PuTTY. Currently this is 0.70, released on 2017-07-08.

When new releases come out, this page will update to contain the latest, so this is a good page to bookmark or link to. Alternatively, here is a [permanent link to the 0.70 release](#).

Release versions of PuTTY are versions we think are reasonably likely to work well. However, they are often not the most up-to-date version of the code available. If you have a problem with this release, then it might be worth trying out the [development snapshots](#), to see if the problem has already been fixed in those versions.

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)
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Alternative binary files

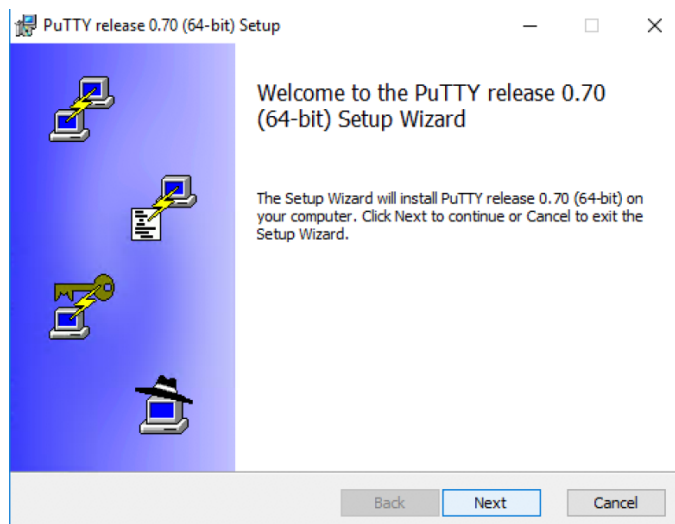
The installer packages above will provide all of these (except PuTTYtel), but you can download them one by one if you prefer.

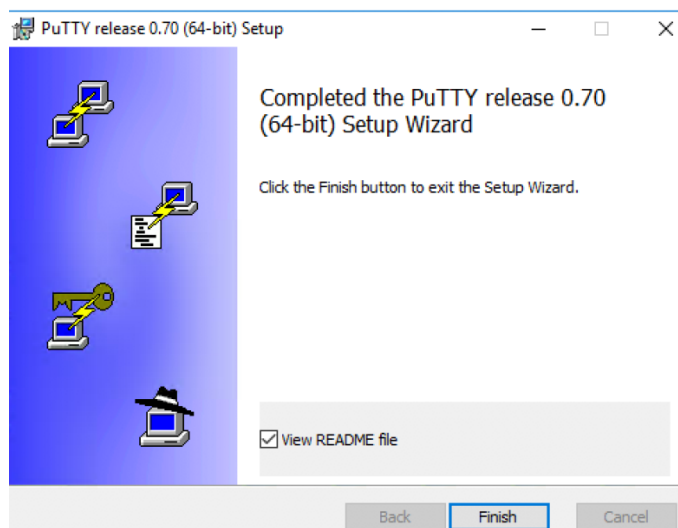
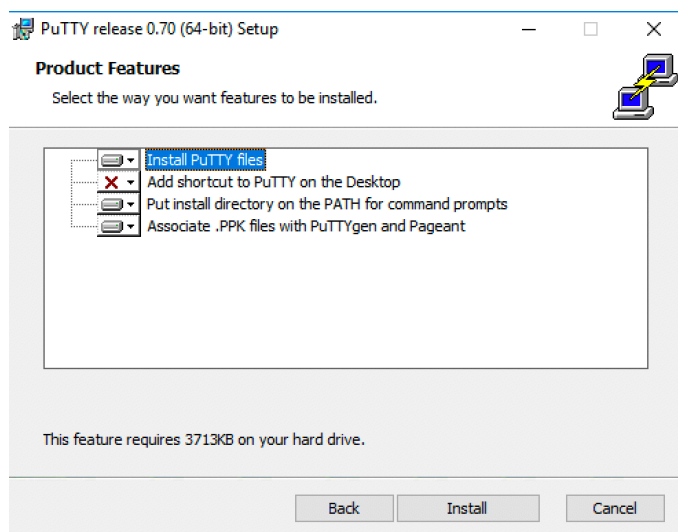
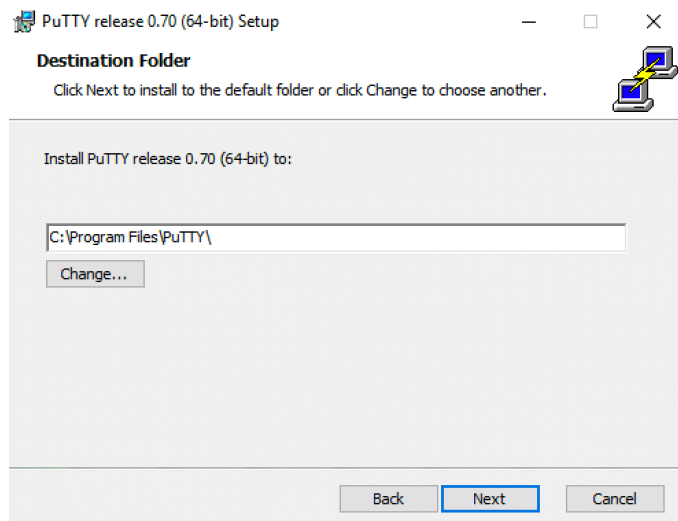
(Not sure whether you want the 32-bit or the 64-bit version? Read the [FAQ entry](#).)

putty.exe (the SSH and Telnet client itself)

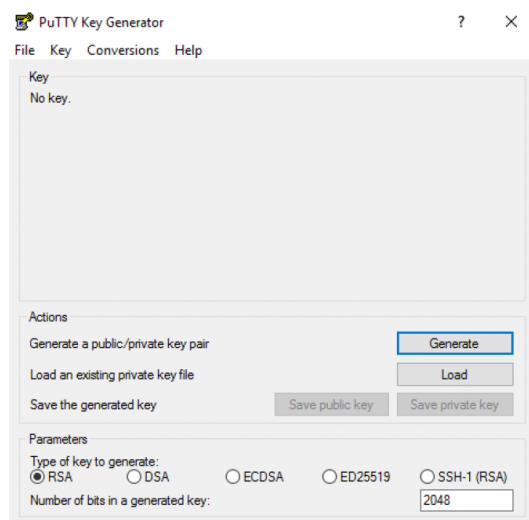
32-bit:	putty.exe	(or by FTP)	(signature)
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3.2 Double click the msi File in the download folder to start the installation and follow the instructions on Screen

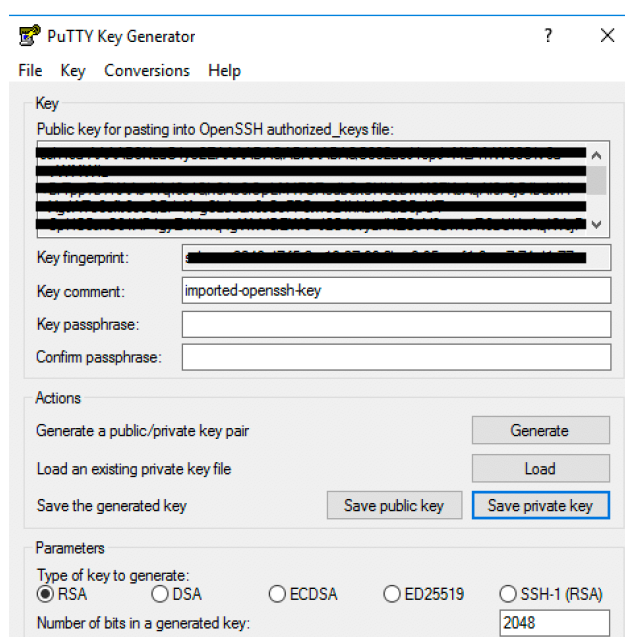
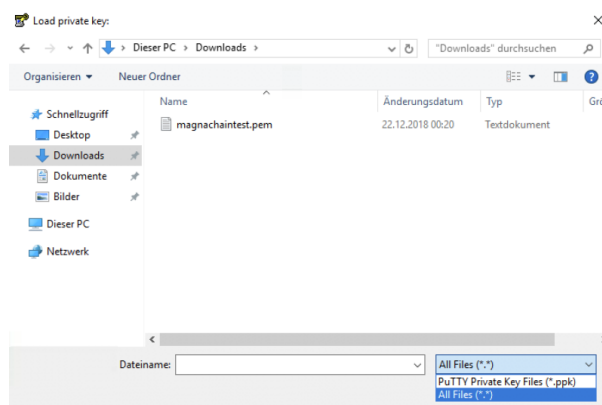




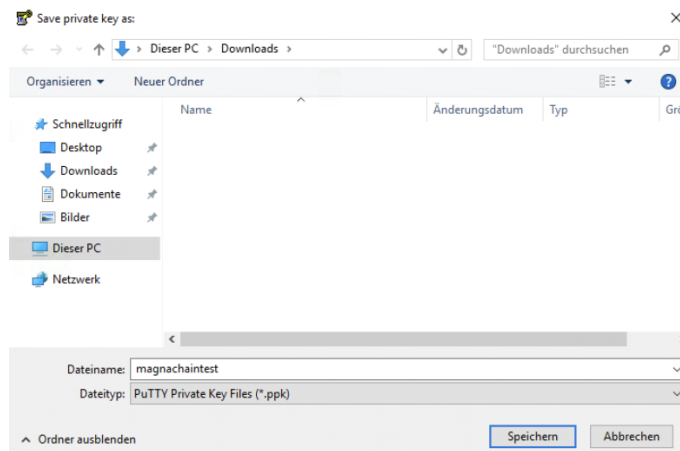
4) After installation start the program PuTTY Key Generator



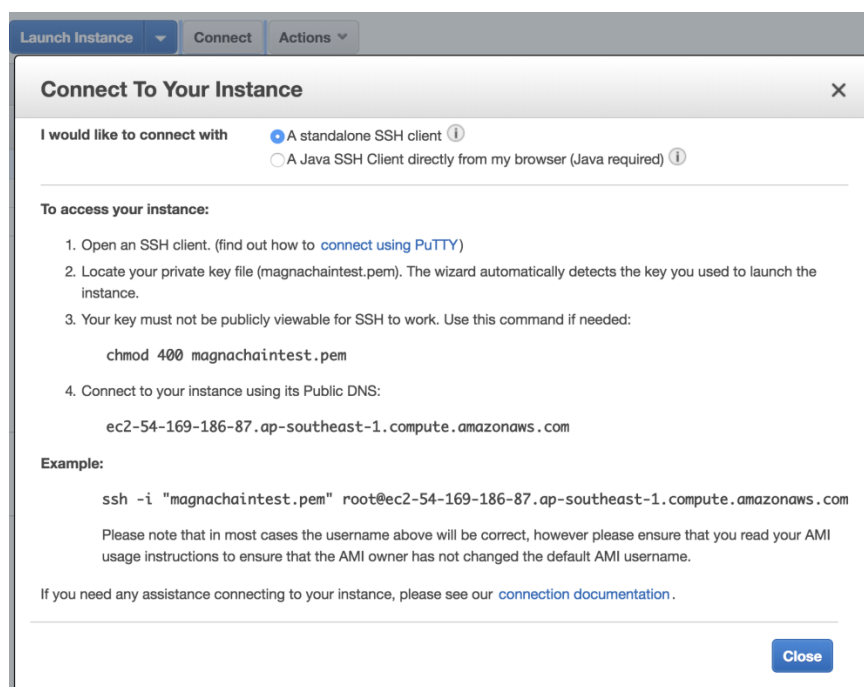
4.1 Click RSA and then on Load and change to “All Files (*.*)”. Change to your Download Folder and select your PEM File.



4.2 Click on “Save Private Key” and save it in your Download Folder (or Folder of your choice). Type a name and click on “Save”



5) Click on Connect at EC2 Dashboard

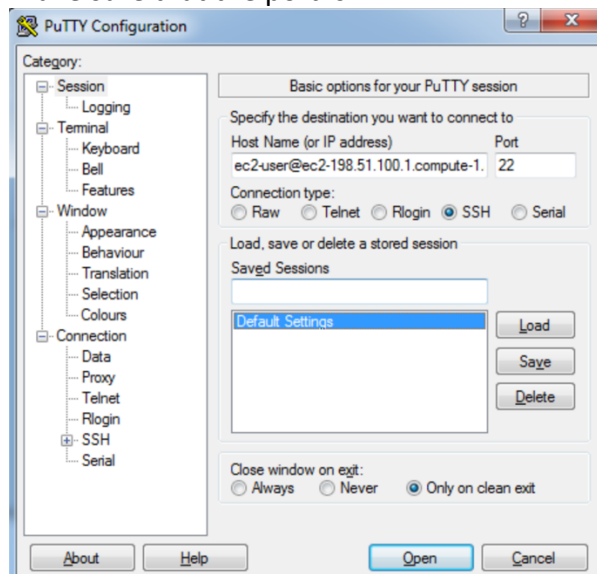


And copy the @..... part from the example

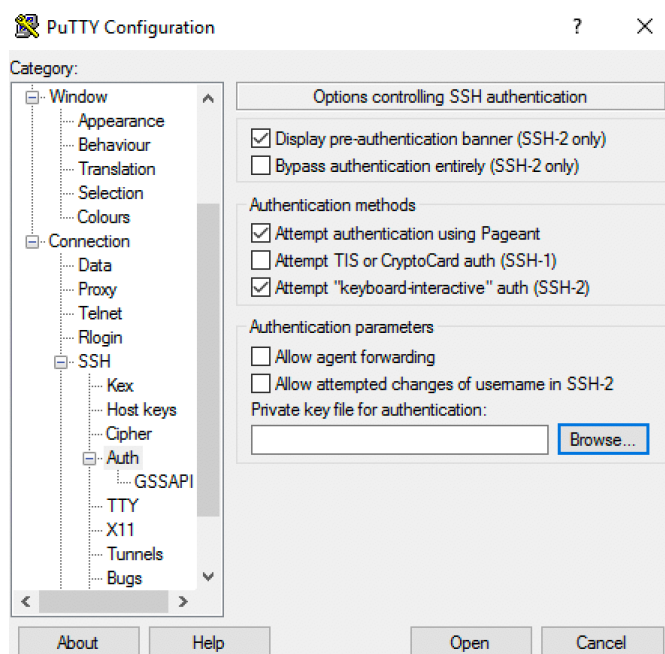
6) Start PuTTY

6.1 Click on the Left on Session and add in the Hostname ubuntu+the example string part that you copied. It should look like ubuntu@.....

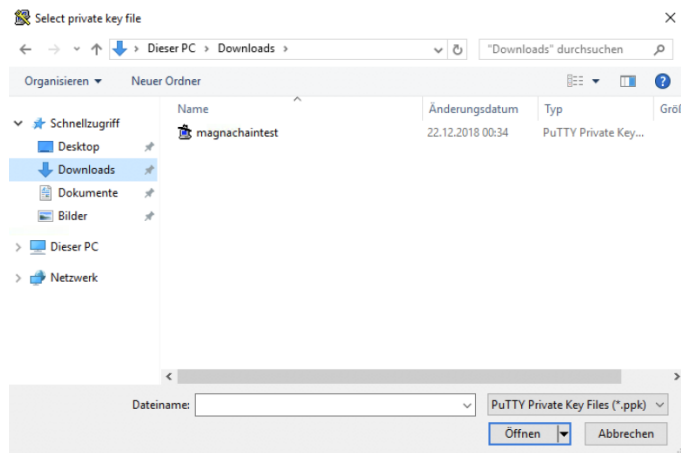
Make sure that the port is 22



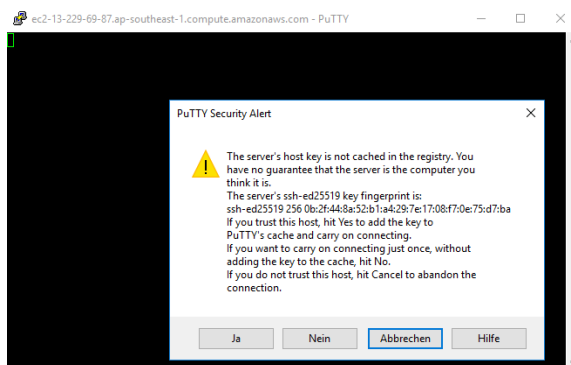
6.2 Click at the left side on Connection >> SSH >> Auth



6.3 Click on Browse and navigate to the folder where you store the file that you generated with PuTTY Generator (see 4.2) and open it



6.4 Click on Open and PuTTY will connect to the System. Accept the Fingerprint and connect.



Should you be facing any problems with the Windows Client Setup please refer to the following document:

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html?icmpid=docs_ec2_console

7) Explore the System

```
ubuntu@ip-172-31-20-162: ~  
Using username "ubuntu".  
Authenticating with public key "imported-openssh-key"  
Welcome to Ubuntu 18.04.1 LTS (GNU/Linux 4.15.0-1031-aws x86_64)  
  
 * Documentation:  https://help.ubuntu.com  
 * Management:    https://landscape.canonical.com  
 * Support:       https://ubuntu.com/advantage  
  
System information as of Sat Dec 22 00:45:22 UTC 2018  
  
System load:  0.0                Processes:    89  
Usage of /:   29.1% of 7.69GB    Users logged in:  0  
Memory usage: 13%              IP address for eth0: 172.31.20.162  
Swap usage:   0%  
  
 * MicroK8s is Kubernetes in a snap. Made by devs for devs.  
   One quick install on a workstation, VM, or appliance.  
   - https://bit.ly/microk8s  
  
 * Full K8s GPU support is now available!  
   - https://blog.ubuntu.com/2018/12/10/using-gpupus-with-kubernetes  
  
Get cloud support with Ubuntu Advantage Cloud Guest:  
  http://www.ubuntu.com/business/services/cloud  
  
 * Canonical Livepatch is available for installation.  
   - Reduce system reboots and improve kernel security. Activate at:  
     https://ubuntu.com/livepatch  
  
90 packages can be updated.  
0 updates are security updates.  
  
Last login: Wed Dec 19 00:50:29 2018 from 171.96.191.118  
ubuntu@ip-172-31-20-162:~$
```

7.1 Change location to the folder download / magnachain and explore the file structure

```
ubuntu@ip-172-31-20-162: ~/download/magnachain  
ubuntu@ip-172-31-20-162:~$ cd download  
ubuntu@ip-172-31-20-162:~/download$ ls -l  
total 54112  
drwxrwxr-x 2 ubuntu ubuntu    4096 Dec 19 00:52 magnachain  
-rw-rw-r-- 1 ubuntu ubuntu 55404345 Dec 13 07:33 ubuntu_v451.zip  
ubuntu@ip-172-31-20-162:~/download$ cd magnachain  
ubuntu@ip-172-31-20-162:~/download/magnachain$ ls -l  
total 168980  
-rw-rw-r-- 1 ubuntu ubuntu    18696 Dec 13 15:22 libboost_chrono.so.1.65.1  
-rw-rw-r-- 1 ubuntu ubuntu   105248 Dec 13 15:22 libboost_filesystem.so.1.65.1  
-rw-rw-r-- 1 ubuntu ubuntu   527200 Dec 13 15:22 libboost_program_options.so.1.65.1  
-rw-rw-r-- 1 ubuntu ubuntu    18544 Dec 13 15:22 libboost_system.so.1.65.1  
-rw-rw-r-- 1 ubuntu ubuntu   150256 Dec 13 15:22 libboost_thread.so.1.65.1  
-rw-rw-r-- 1 ubuntu ubuntu   2030544 Dec 13 15:22 libc.so.6  
-rw-rw-r-- 1 ubuntu ubuntu   2575848 Dec 13 15:22 libcrypto.so.1.1  
-rw-rw-r-- 1 ubuntu ubuntu   1687640 Dec 13 15:22 libdb_cxx-4.8.so  
-rw-rw-r-- 1 ubuntu ubuntu    14560 Dec 13 15:22 libdl.so.2  
-rw-rw-r-- 1 ubuntu ubuntu   330128 Dec 13 15:22 libevent-2.1.so.6  
-rw-rw-r-- 1 ubuntu ubuntu    10008 Dec 13 15:22 libevent_pthreads-2.1.so.6  
-rw-rw-r-- 1 ubuntu ubuntu    96616 Dec 13 15:22 libgcc_s.so.1  
-rw-rw-r-- 1 ubuntu ubuntu   1700792 Dec 13 15:22 libm.so.6  
-rw-rw-r-- 1 ubuntu ubuntu    51584 Dec 13 15:22 libminiupnpc.so.10  
-rw-rw-r-- 1 ubuntu ubuntu    522248 Dec 13 15:22 libnorm.so.1  
-rw-rw-r-- 1 ubuntu ubuntu   293784 Dec 13 15:22 libpgm-5.2.so.0  
-rw-rw-r-- 1 ubuntu ubuntu   144976 Dec 13 15:22 libpthread.so.0  
-rw-rw-r-- 1 ubuntu ubuntu    31680 Dec 13 15:22 librt.so.1  
-rw-rw-r-- 1 ubuntu ubuntu   330440 Dec 13 15:22 libsodium.so.23  
-rw-rw-r-- 1 ubuntu ubuntu   1594832 Dec 13 15:22 libstdc++.so.6  
-rw-rw-r-- 1 ubuntu ubuntu    626368 Dec 13 15:22 libzmq.so.5  
-rwxrwxrwx 1 ubuntu ubuntu     140 Aug 10 15:01 loadlib.sh  
-rwxrwxr-x 1 ubuntu ubuntu   8936464 Dec 13 15:22 magnachain-cli  
-rw-rw-r-- 1 ubuntu ubuntu     33 Dec 19 00:52 magnachain_so.conf  
-rwxrwxr-x 1 ubuntu ubuntu 151181152 Dec 13 15:22 magnachaind  
-rw-rw-r-- 1 ubuntu ubuntu     271 Nov 29 17:50 readme  
ubuntu@ip-172-31-20-162:~/download/magnachain$
```