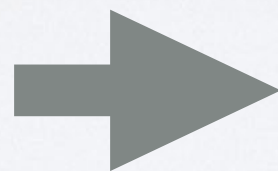


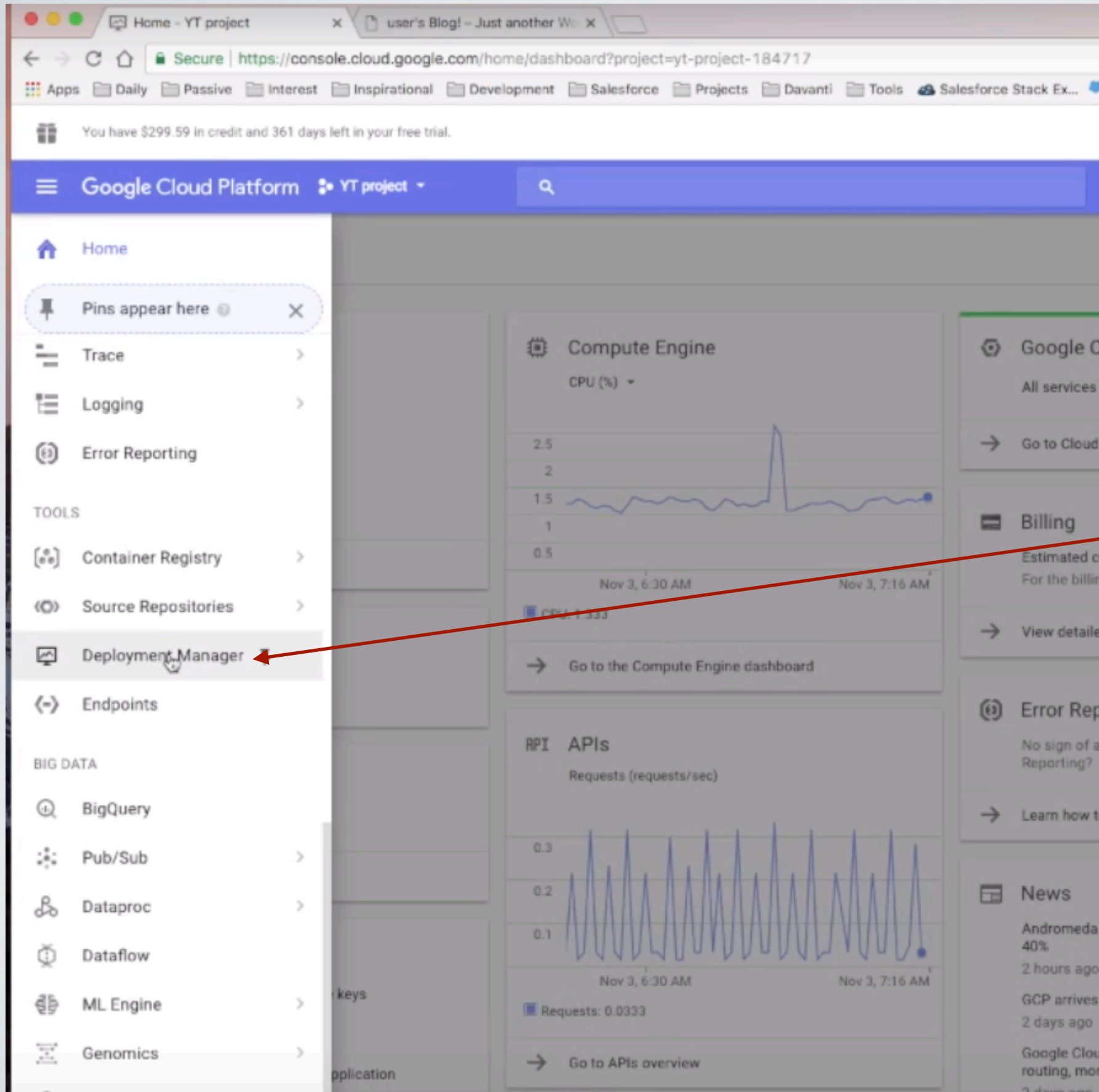
FILEZILLA AND GOOGLE CLOUD PLATFORM



You can follow along with this video:

<https://www.youtube.com/watch?v=R8C66NwMJLs&t=195s>

<https://www.youtube.com/watch?v=R8C66NwMJLs&t=195s>



I. Click on
Deployment
Manager

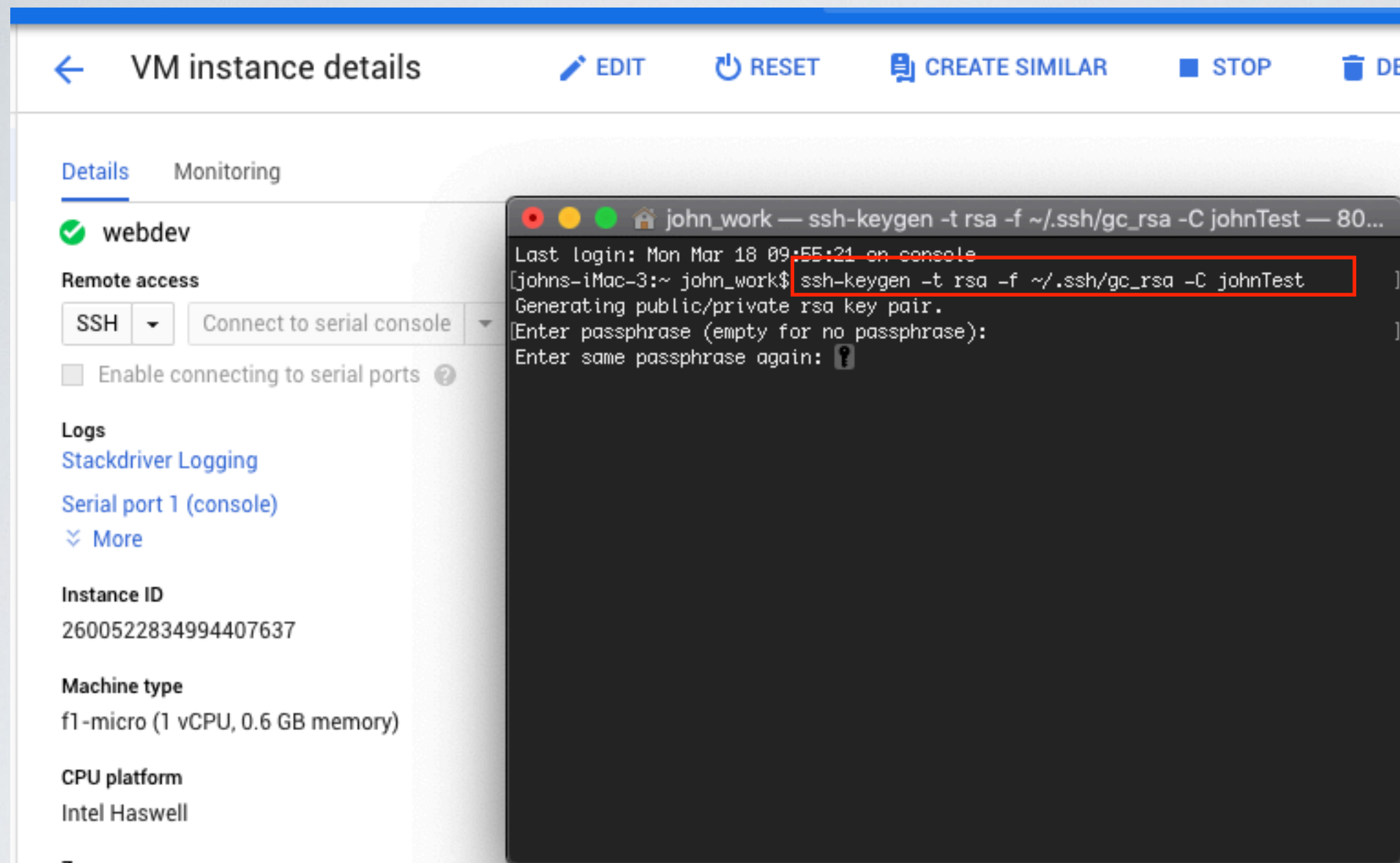
Filter VM instances

?

Columns ▾

<input type="checkbox"/> Name ^	Zone	Recommendation	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>  lamp-1-vm	europe-west4-a			10.164.0.2 (nic0)	None	SSH ▾ ⋮
<input type="checkbox"/>  webdev	us-central1-c			10.128.0.2 (nic0)	35.239.144.115 ↗	SSH ▾ ⋮

Click the instance you want to work with



Go to terminal and create a public key. I have picked my username here as 'johnTest'. You need to pick your own and also pick your secret passphrase

```
john_work — ssh-keygen -t rsa -f ~/.ssh/gc_rsa -C johnTest — 80...
Last login: Mon Mar 18 09:55:21 on console
[johns-iMac-3:~ john_work$ ssh-keygen -t rsa -f ~/.ssh/gc_rsa -C johnTest
Generating public/private rsa key pair.
[Enter passphrase (empty for no passphrase):
Enter same passphrase again: ]
```

```
The key's randomart image is:
+---[RSA 2048]-----+
|Bo*.      |
|+0 0 .oo . |
|+.# ==o E  |
|o0.+..B .  |
|..0..= +S   |
| +.o. o     |
|.o .        |
|+ o         |
|. o.        |
+---[SHA256]-----+
[johns-iMac-3:~ john_work$ cd ~/.ssh
[johns-iMac-3:~/.ssh john_work$ ls
filezilla_log.log      gc_rsa.pub          gcp_connect.pub
filezilla_log.log.1    gcp_connect         known_hosts
gc_rsa                 gcp_connect.ppk
johns-iMac-3:~/.ssh john_work$
```

This will create a key
finger print which we can
find in our /ssh folder

```
The key's randomart image is: 10.128.0.2 (mco) 35.239.144.115
+---[RSA 2048]-----+
|Bo*..          |
|+0 0 .oo .     |
|+.# ==0 E      |
|o0.+..B .      |
|..0..= +S      |
|+.o. o         |
|.o .           |
|+ o            |
|. o.           |
+---[SHA256]-----+
[johns-iMac-3:~ john_work$ cd ~/.ssh
[johns-iMac-3:~/.ssh john_work$ ls
filezilla_log.log      gc_rsa.pub          gcp_connect.pub
filezilla_log.log.1    gcp_connect         known_hosts
gc_rsa                 gcp_connect.ppk
johns-iMac-3:~/.ssh john_work$
```

We are going to open this and put this on our VM instance

m

John Snel - Project 1

VM instance details

EDIT

RESET

CREATE SIMILAR

STOP

DELETE

Details

Monitoring

webdev

Remote access

SSH

Connect to serial console

Enable connecting to serial ports

Logs

Stackdriver Logging

Serial port 1 (console)

More

Instance ID

2600522834994407637

Machine type

f1-micro (1 vCPU, 0.6 GB memory)

CPU platform

Intel Haswell

Zone

us-central1-c

Labels

None

Creation time

18 Mar 2019, 12:59:41

Network interfaces

Name	Network	Subnetwork	Primary internal IP	Alias IP ranges	External IP	Network Tier	IP forwarding	Network details
nic0	default	default	10.128.0.2	—	35.239.144.115 (ephemeral)	Premium	Off	View details

Public DNS PTR Record

None

Click on Edit



Local disks

None

Shielded VM

Select a shielded image to use shielded VM features.

Turn on all settings for the most secure configuration.

- ☐ Turn on Secure Boot 
- ☐ Turn on vTPM 
- ☐ Turn on Integrity Monitoring 

Availability policies

Pre-emptibility

Off (recommended)

On host maintenance

Migrate VM instance (recommended)

Automatic restart

On (recommended)

Custom metadata

Key

Value



+ Add item

SSH Keys

☐ Block project-wide SSH keys

When ticked, project-wide SSH keys cannot access this instance. [Learn more.](#)

You have 0 SSH keys

 [Show and edit](#)

Service account

You must stop the VM instance to edit its service account

682956092811-compute@developer.gserviceaccount.com

Cloud API access scopes

You must stop the VM instance to edit its API access scopes

Allow default access

 [Details](#)

Save

Cancel

After clicking on edit, scroll down to the bottom of the page and click Show and edit SSH keys

SSH Keys

☐ Block project-wide SSH keys

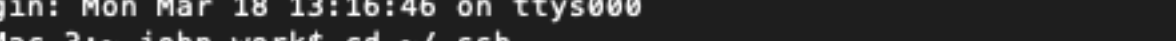
When ticked, project-wide SSH keys cannot access this instance. [Learn more.](#)

You have 0 SSH keys

Enter entire key data



+ Add item



```
.ssh — -bash — 80x24
Last login: Mon Mar 18 13:16:46 on ttys000
[johns-iMac-3:~ john_work$ cd ~/.ssh
johns-iMac-3:~/.ssh john_work$ vi gc_rsa.pub
```



Home



Pins appear here ?



Datastore



Firestore



Storage



SQL



Spanner



Memorystore



Filestore

NETWORKING



VPC network



Network services



Hybrid Connectivity



Network Service Tiers



Network Security



VPC networks

External IP addresses

Firewall rules

Routes

VPC network peering

Shared VPC

STACKDRIVER



Monitoring



Debug

VM instances



CR

Filter VM instances

Name ^

Zone



lamp-1-vm

europe-west4-



webdev

us-central1-c

We need to set the firewall rules as well

Firewall rules control incoming or outgoing traffic to an instance. By default, incoming traffic from outside your network is blocked. [Learn more](#)

Name ?

webdev

Logs

Turning on firewall logs can generate a large number of logs which can increase costs in Stackdriver. [Learn more](#)

- ☐ On
☒ Off

Network ?

default

Priority ?

Priority can be 0–65535 [Check priority of other firewall rules](#)

1000

Direction of traffic ?

- ☒ Ingress
☐ Egress

Action on match ?

- ☒ Allow
☐ Deny

Targets ?

All instances in the network

Source filter ?

IP ranges

Source IP ranges ?

0.0.0.0/0

Second source filter ?

None

Protocols and ports ?

- ☒ Allow all
☐ Specified protocols and ports

[Disable rule](#)

Create

Cancel


For now, choose these options


Firewall rules

[+ CREATE FIREWALL RULE](#)[REFRESH](#)[DELETE](#)

Firewall rules control incoming or outgoing traffic to an instance. By default, incoming traffic from outside your network is blocked. [Learn more](#)

Note: App Engine firewalls are managed [here](#)

 Filter resources

 Columns ▾

<input type="checkbox"/> Name	Type	Targets	Filters	Protocols/ports	Action	Priority	Network ^
<input type="checkbox"/> default-allow-http	Ingress	http-server	IP ranges: 0.0.0.0/0	tcp:80	Allow	1000	default
<input type="checkbox"/> default-allow-https	Ingress	https-server	IP ranges: 0.0.0.0/0	tcp:443	Allow	1000	default
<input checked="" type="checkbox"/> john-setup	Ingress	Apply to all	IP ranges: 0.0.0.0/0	all	Allow	1000	default
<input type="checkbox"/> lamp-1-tcp-443	Ingress	lamp-1-tcp-443	IP ranges: 0.0.0.0/0	tcp:443	Allow	1000	default
<input type="checkbox"/> lamp-1-tcp-80	Ingress	lamp-1-tcp-80	IP ranges: 0.0.0.0/0	tcp:80	Allow	1000	default
<input type="checkbox"/> default-allow-icmp	Ingress	Apply to all	IP ranges: 0.0.0.0/0	icmp	Allow	65534	default
<input type="checkbox"/> default-allow-internal	Ingress	Apply to all	IP ranges: 10.128.0.0/9	tcp:0-65535 udp:0-65535 icmp	Allow	65534	default
<input type="checkbox"/> default-allow-rdp	Ingress	Apply to all	IP ranges: 0.0.0.0/0	tcp:3389	Allow	65534	default
<input type="checkbox"/> default-allow-ssh	Ingress	Apply to all	IP ranges: 0.0.0.0/0	tcp:22	Allow	65534	default

Click create firewall rule

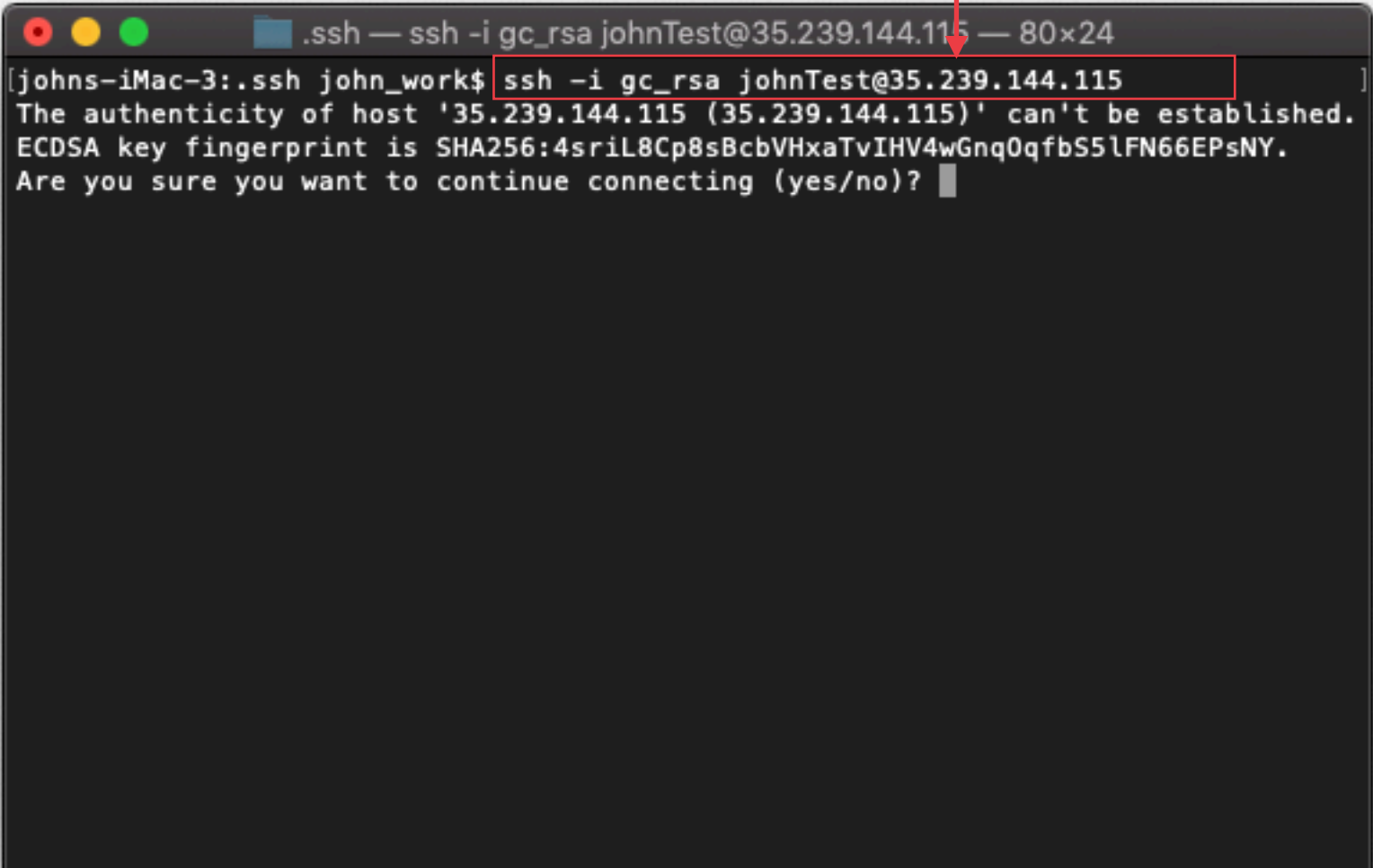
```
[johns-iMac-3:~$ vi gc_rsa.pub  
[johns-iMac-3:~$ chmod 400 gc_rsa  
[johns-iMac-3:~$
```

Change file permissions

Try connect to the webdev instance:

Filter VM instances

<input type="checkbox"/> Name ^	Zone	Recommendation	In use by	Internal IP	External IP	Connect
<input type="checkbox"/> lamp-1-vm	europa-west4-a			10.164.0.2 (nic0)	None	SSH ▾ ⋮
<input type="checkbox"/> webdev	us-central1-c			10.128.0.2 (nic0)	35.239.144.115 ↗	SSH ▾ ⋮



```
.ssh — ssh -i gc_rsa johnTest@35.239.144.115 — 80x24  
[johns-iMac-3:~$ ssh -i gc_rsa johnTest@35.239.144.115  
The authenticity of host '35.239.144.115 (35.239.144.115)' can't be established.  
ECDSA key fingerprint is SHA256:4sriL8Cp8sBcbVHxaTvIHV4wGnq0qfbS5lFN66EPsNY.  
Are you sure you want to continue connecting (yes/no)?
```



```
.ssh — johnTest@webdev: ~ — ssh -i gc_rsa johnTest@35.246.78.104 — 124x32
+---[RSA 2048]-----+
|0++*+0 ..... .E |
|++0..+00      .   |
|++..+0..      |
|+=*.0.        |
|0=0+   S      |
|0 .0   0 .    |
|+.0.+ . 0     |
|.=.0 +       |
|. . +0.      |
+---[SHA256]-----+
[johns-iMac-3:.ssh john_work$ cd ~/.ssh
[johns-iMac-3:.ssh john_work$ vi gc_rsa.pub
[johns-iMac-3:.ssh john_work$ ls
filezilla_log.log      gc_rsa          gcp_connect      gcp_connect.pub
filezilla_log.log.1    gc_rsa.pub      gcp_connect.ppk  known_hosts
[johns-iMac-3:.ssh john_work$ vi gc_rsa.pub
[johns-iMac-3:.ssh john_work$ ssh -i gc_rsa johnTest@35.246.78.104
The authenticity of host '35.246.78.104 (35.246.78.104)' can't be established.
ECDSA key fingerprint is SHA256:l21bwodJWffcXESDDtpPP7QtHkmth1GdtqMQy70093g.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '35.246.78.104' (ECDSA) to the list of known hosts.
Enter passphrase for key 'gc_rsa':
Linux webdev 4.9.0-8-amd64 #1 SMP Debian 4.9.144-3.1 (2019-02-19) x86_64

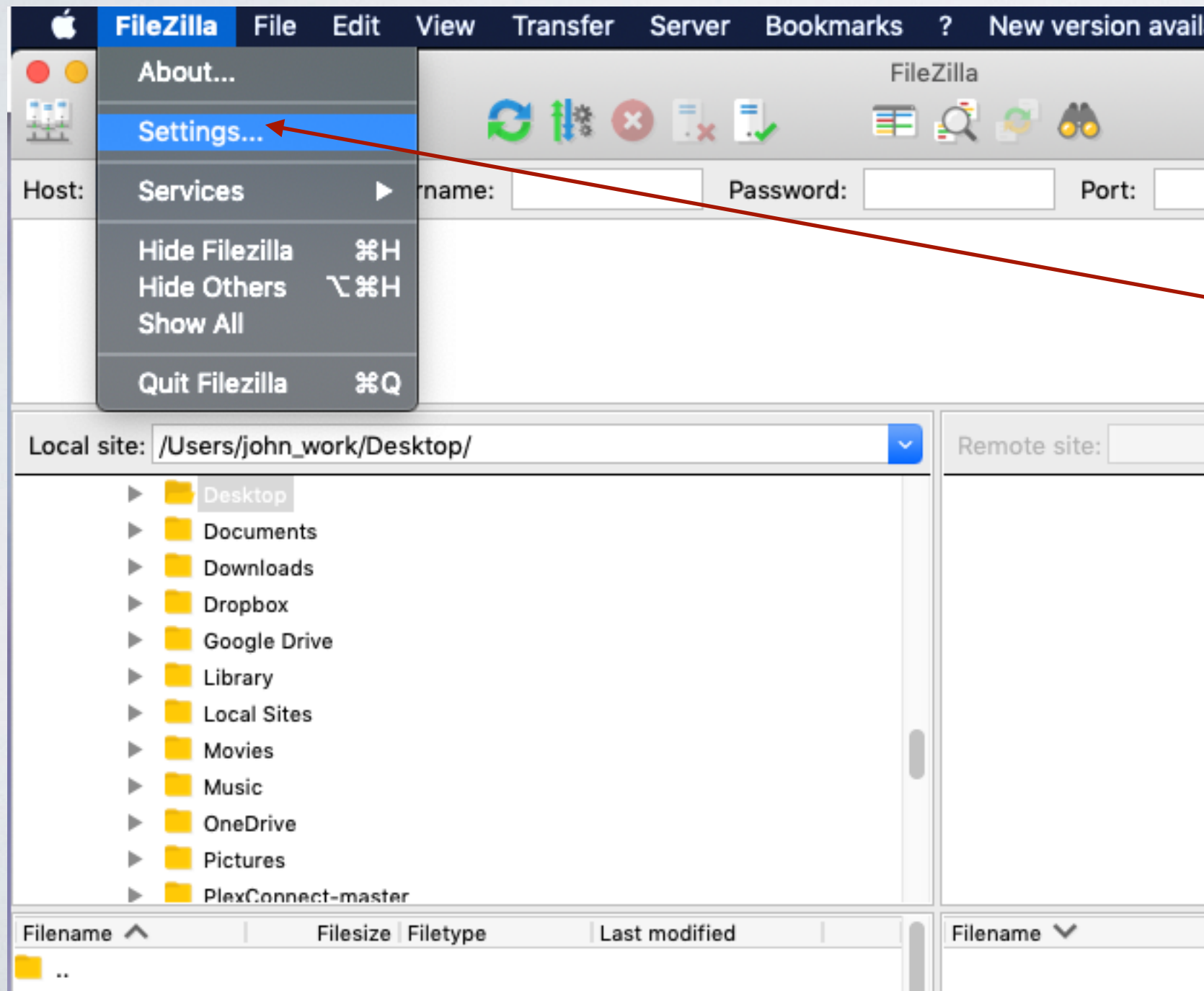
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
johnTest@webdev:~$
```

This shows a successful connection

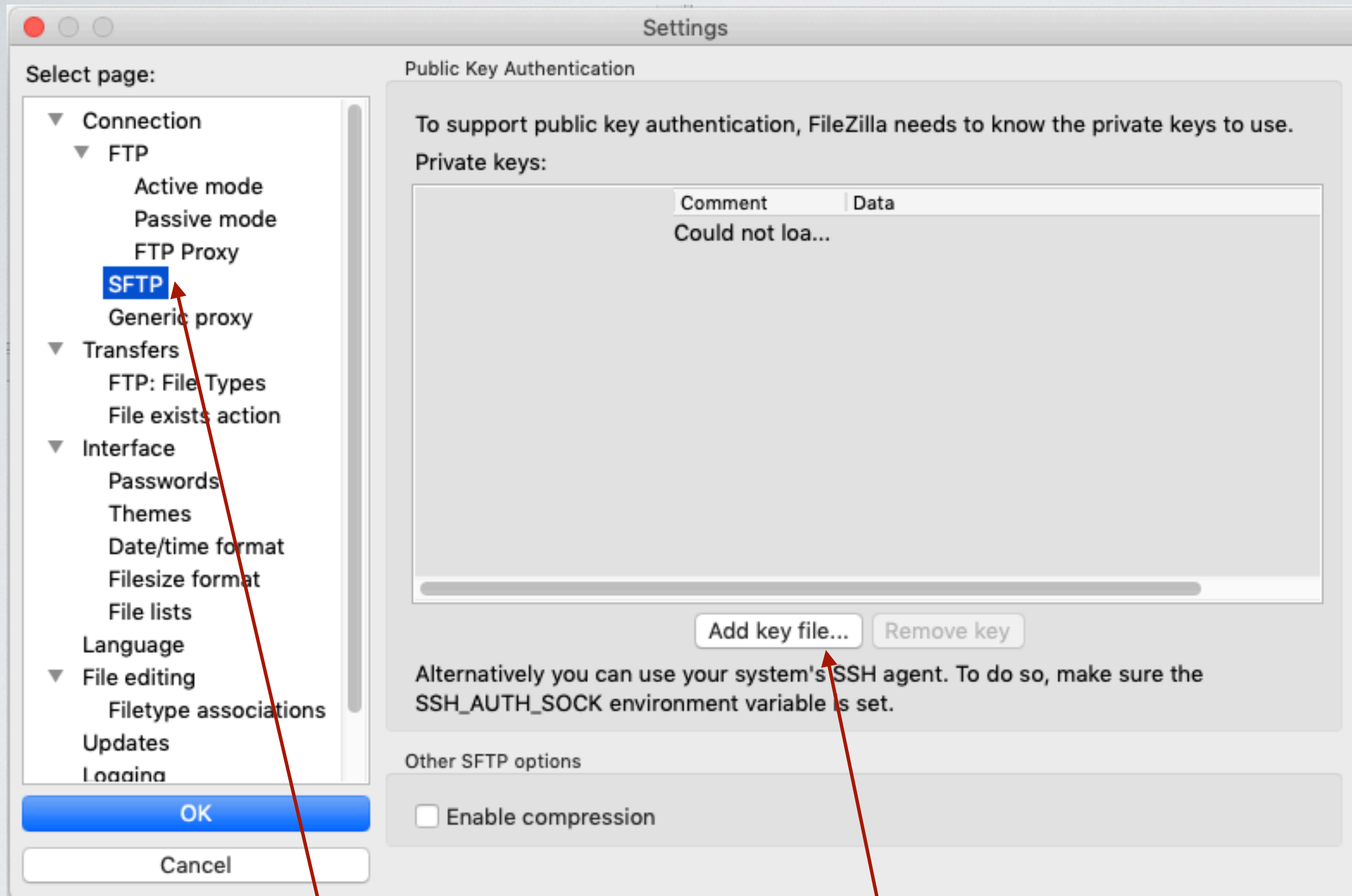
FILEZILLA

- Download FileZilla to your computer and install
- We're going to use this same public key (**gc_rsa.pub**) with FileZilla

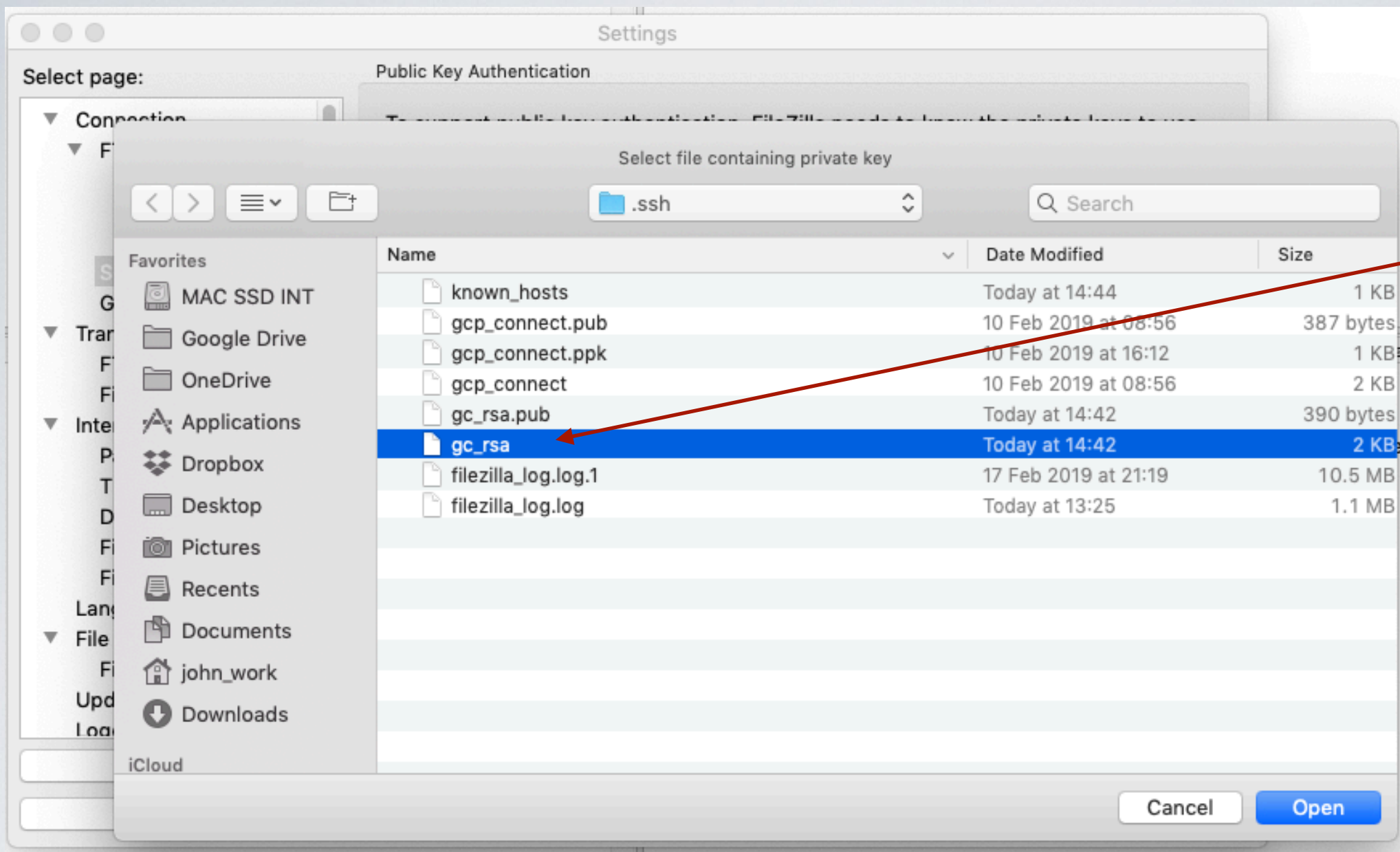


Click on Settings

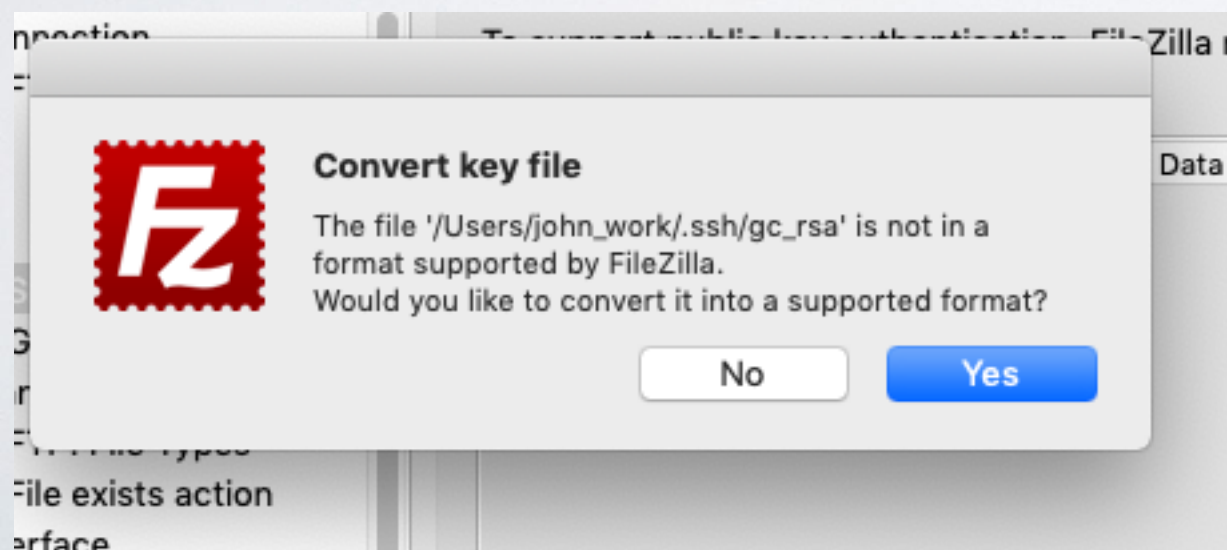
FILEZILLA



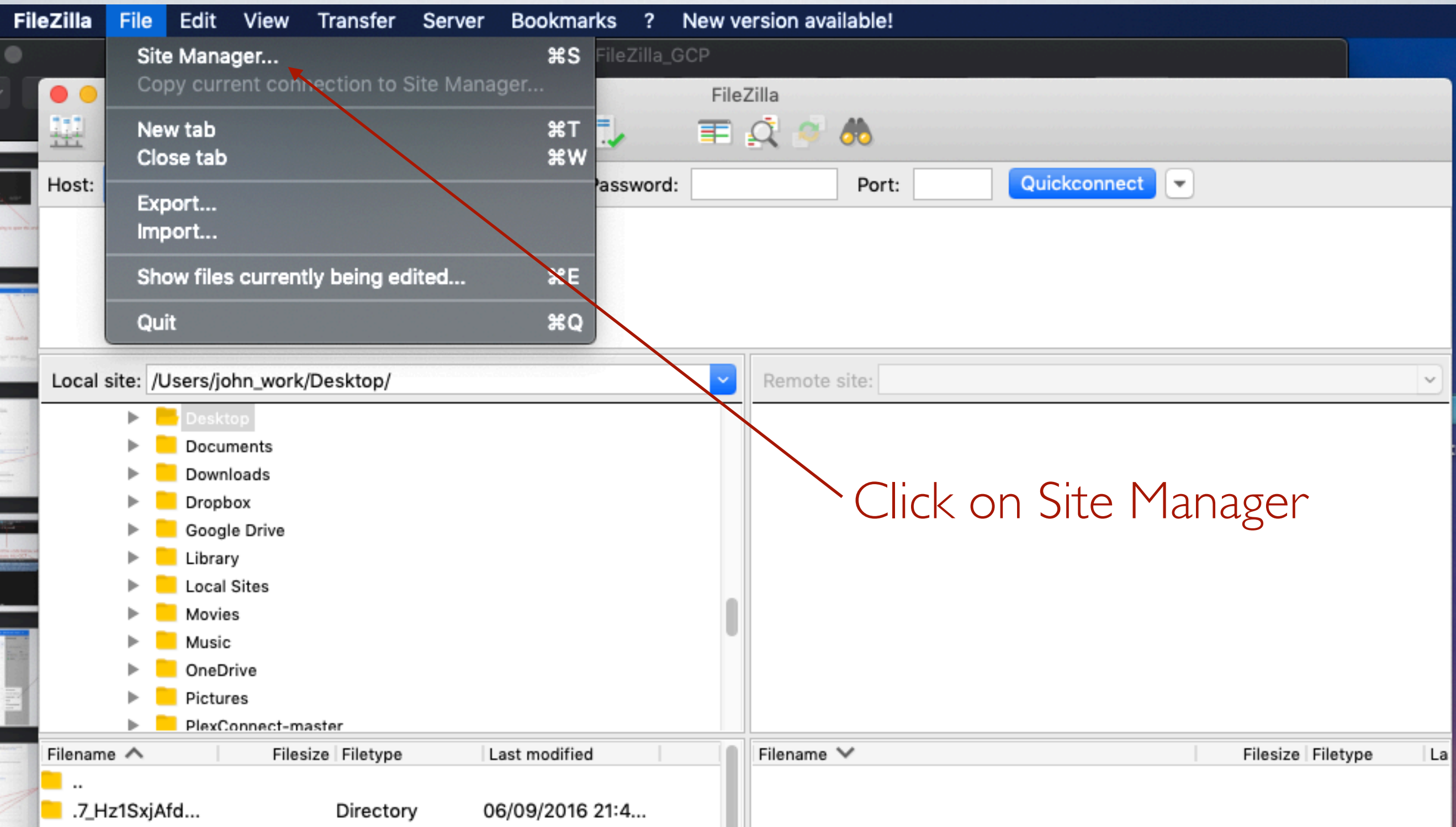
Click on on SFTP and then on Add key file



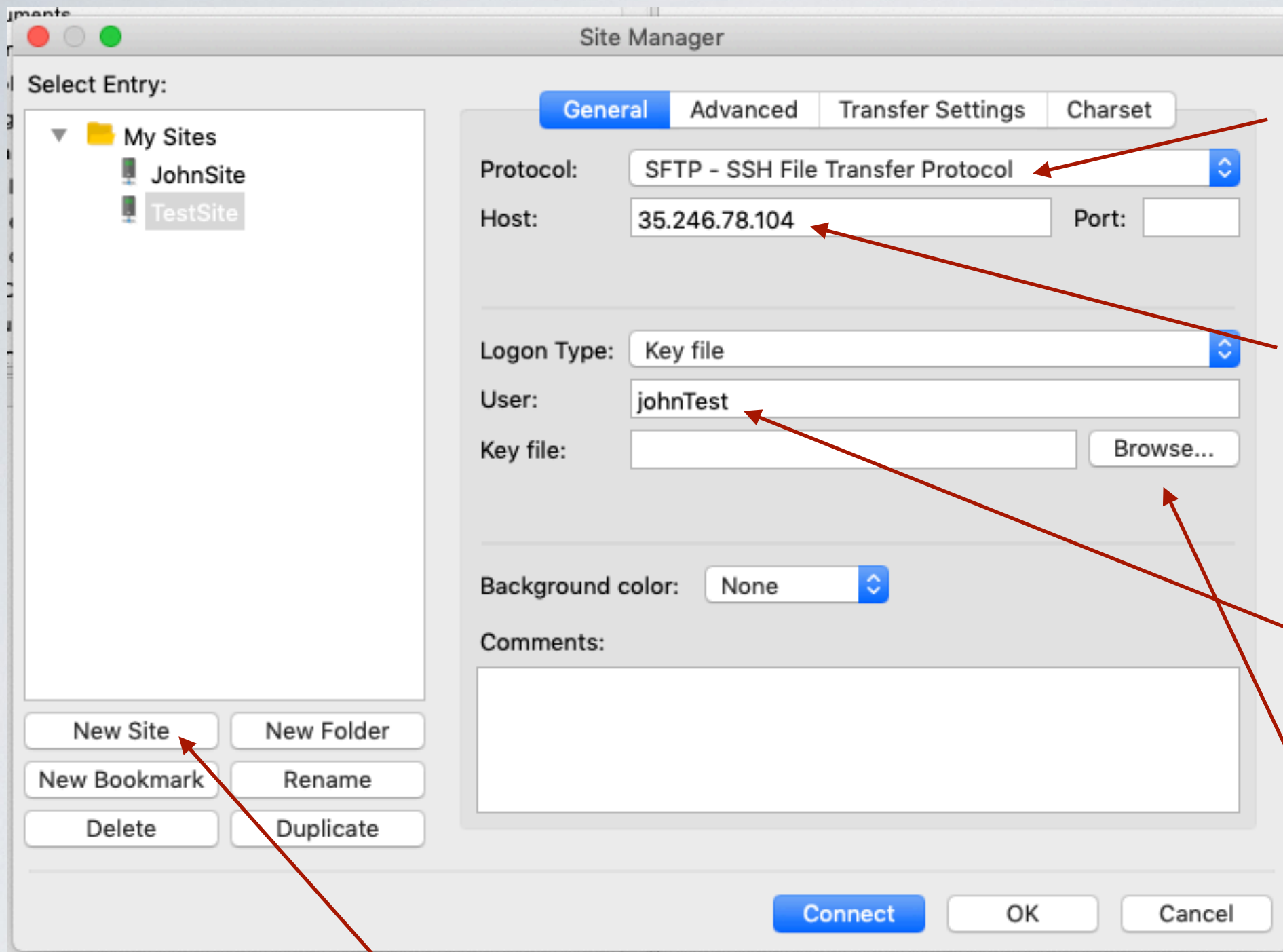
Pick your private key



Click Yes to convert



Click on Site Manager



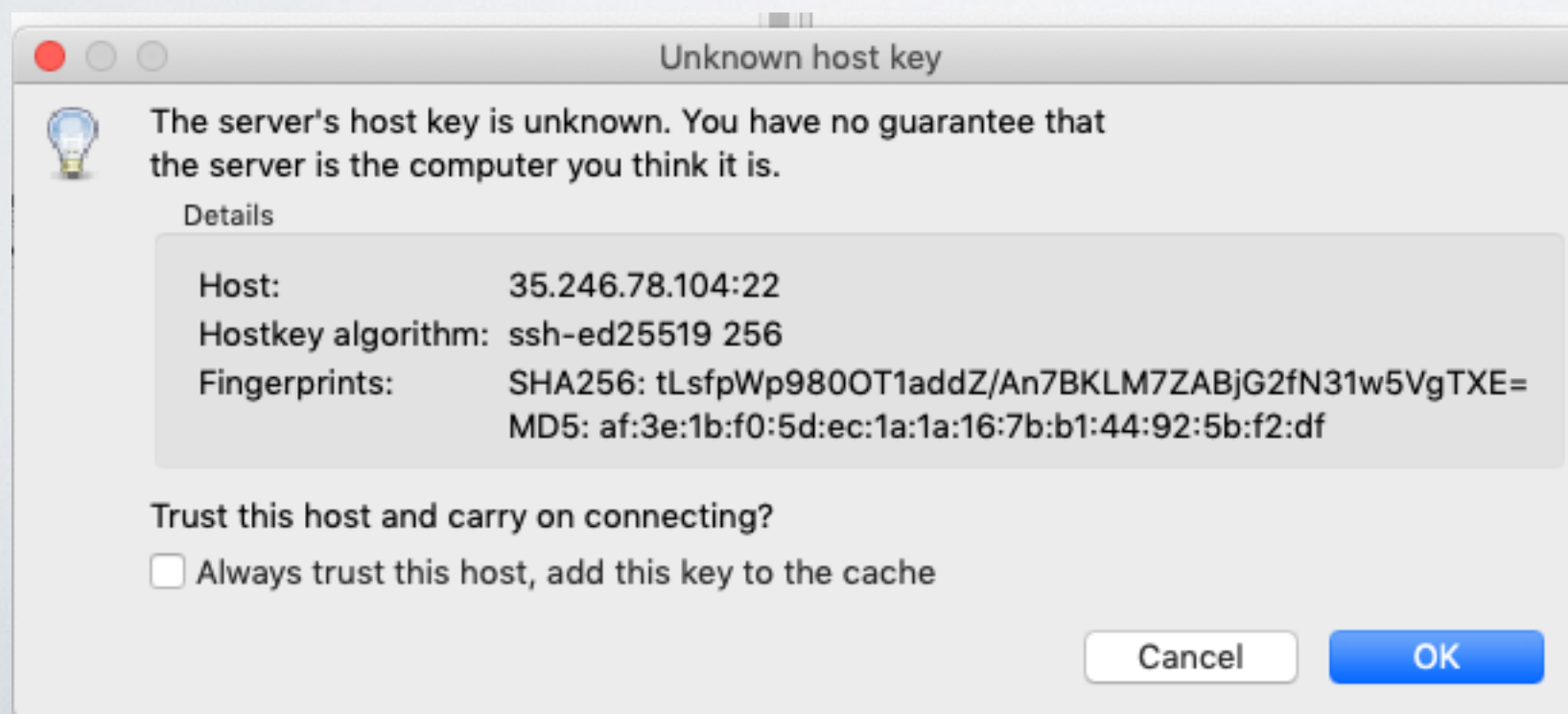
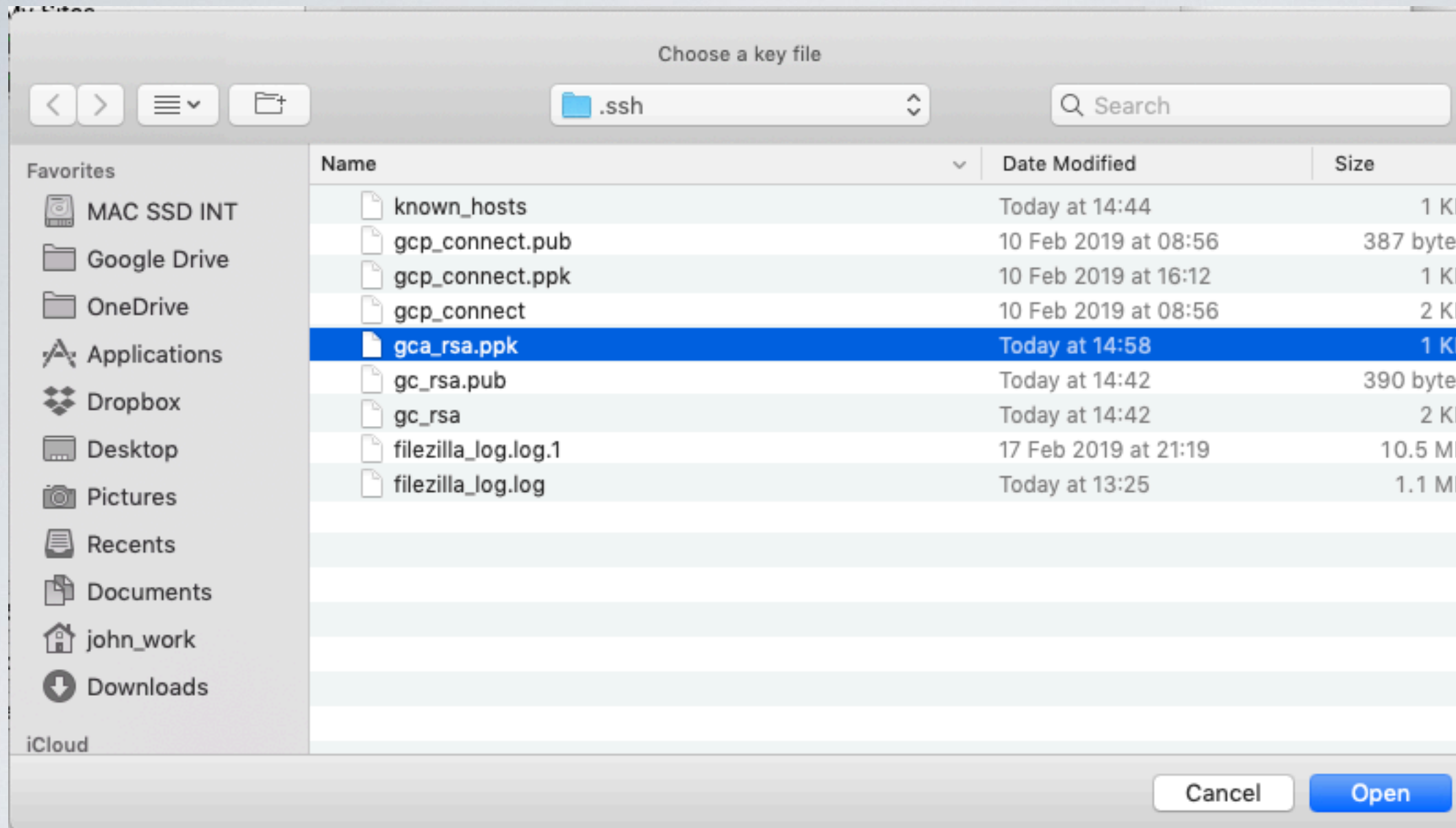
2. Choose SFTP as your protocol

3. This is your external IP address you get from GCP

4. Enter username

5. Browse for our .ppk key file

1. Create and name a new site



After you pick your key file (gca_rsa.ppk), you will be asked to trust this host. Click OK

Enter password

Please enter a password for this server:

Name: TestSite

Host: 35.246.78.104

User: johnTest

Challenge:

Passphrase for key "johnTest" in key file "/Users/john_work/.ssh/gca_rsa.ppk"

Password:

☒ Remember password until FileZilla is closed

OK Cancel

Enter your
passphrase, and
you should be
connected.

TestSite - sftp://johnTest@35.246.78.104 - FileZilla

Host: Username: Password: Port: Quickconnect

Status: Connecting to 35.246.78.104...
Status: Connected to 35.246.78.104
Status: Retrieving directory listing...
Status: Listing directory /home/johnTest
Status: Directory listing of "/home/johnTest" successful

Local site: /Users/john_work/Desktop/ Remote site: /home/johnTest

Local site directory listing:

- Desktop
- Documents
- Downloads
- Dropbox
- Google Drive
- Library
- Local Sites
- Movies
- Music
- OneDrive
- Pictures
- PlexConnect-master

Remote site directory listing:

- home
- johnTest

Filename	Filesize	Filetype	Last modified
..			
.7_Hz1SxjAfd...		Directory	06/09/2016 21:4...
.QAO3XU1OS...		Directory	21/01/2016 11:0...
100GOPRO		Directory	21/12/2018 14:2...
3D - Cinema ...		Directory	17/11/2018 13:16...
4 hour work ...		Directory	27/02/2018 03:1...
4. Books : Do...		Directory	26/02/2018 03:...
CV		Directory	03/03/2019 17:1...
DataStuff		Directory	06/12/2017 13:0...
Databases_S...		Directory	03/03/2019 16:2...
GCP Instructi...		Directory	18/03/2019 13:1...
PDF:VECTOR:...		Directory	31/10/2018 23:1...
Pictures_Oct...		Directory	20/10/2018 17:2...
Web Stuff		Directory	10/03/2019 15:1...
.DS_Store	18,436	File	18/03/2019 13:1...
.Rhistory	33	File	16/09/2017 15:3...
.localized	0	File	13/02/2017 14:11...
Dropbox	1,214,904	File	07/11/2017 12:55...
Google Drive	1,152,572	File	07/11/2017 12:5...

18 files and 13 directories. Total size: 2,748,209 bytes

Filename	Filesize	Filetype
..		
.profile	675	File
.bashrc	3,526	File
.bash_logout	220	File
.bash_history	5	File
.ssh		Directory

4 files and 1 directory. Total size: 4,426 bytes