FILEZILLA AND GOOGLE CLOUD PLATFORM
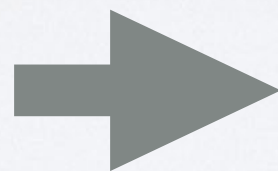
You can follow along with this video:

https://www.youtube.com/watch?v=R8C66NwMJLs&t=195s
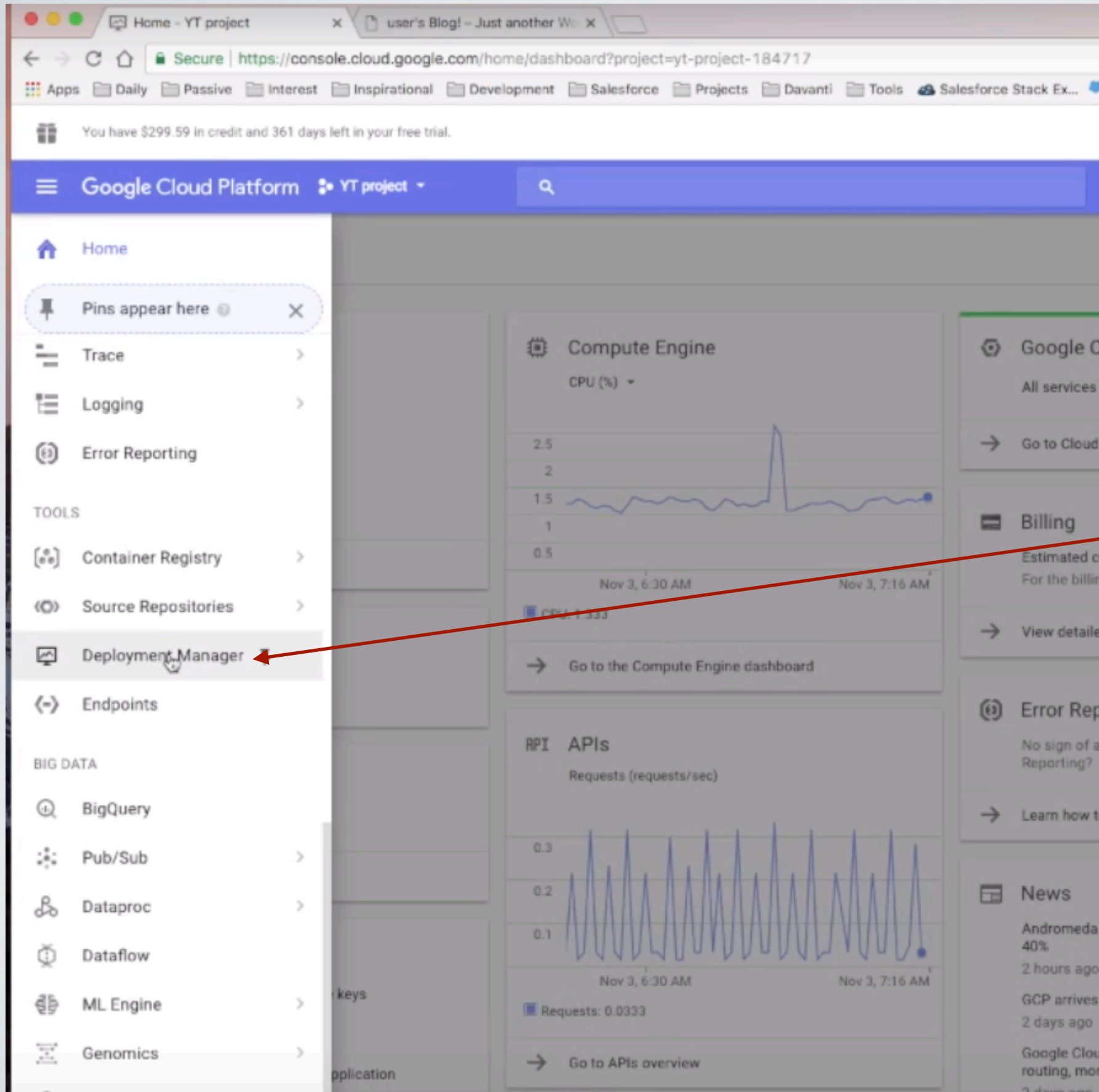
1. Click on Deployment Manager

	Name ^	Zone	Recommendation	In use by	Internal IP	External IP	Connect	
☐	◯ lamp-1-vm	europe-west4-a			10.164.0.2 (nic0)	None	SSH ▾	⋮
☐	✓ webdev	us-central1-c			10.128.0.2 (nic0)	35.239.144.115 ⤤	SSH ▾	⋮

Filter VM instances

Columns ▾

Click the instance you want to work with
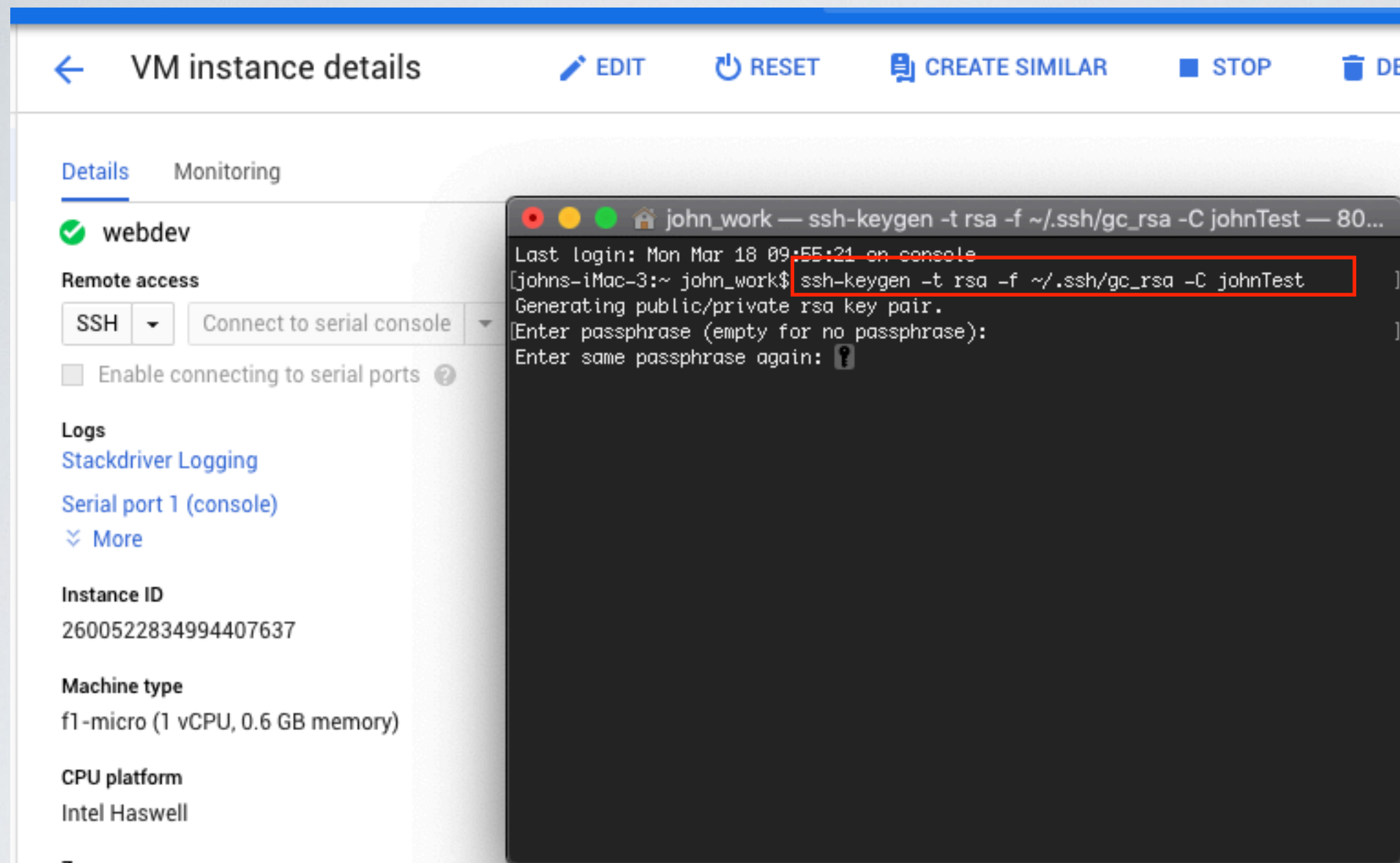
Go to terminal and create a public key. I have picked my username here as 'johnTest'. You need to pick your own and also pick your secret passphrase

```
● ● ●    🏠 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:          10.128.0.2 (nico)    35.239.144.115
+---[RSA 2048]----+
|Bo*.      .      |
|+0 0 .oo .        |
|+.# ==o E        |
|oO.+..B  .       |
|..O..= +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 (nico)     35.239.144.115
+---[RSA 2048]----+
|Bo*.     .       |
|+O O .oo .       |
|+.# ==o E        |
|oO.+..B  .        |
|..O..= +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

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
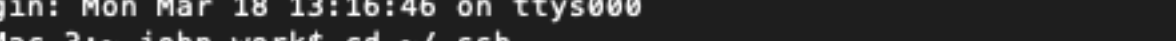
SSH Keys

☐ 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

Type this to get the code below, which you will copy and paste into GCP

To exit vi type :q

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   **C 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

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

Columns ▾

Click create firewall rule

```
[johns-iMac-3:.ssh john_work$ vi gc_rsa.pub
[johns-iMac-3:.ssh john_work$ chmod 400 gc_rsa
johns-iMac-3:.ssh john_work$ ▊
```

Change file permissions

Try connect to the webdev instance:

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
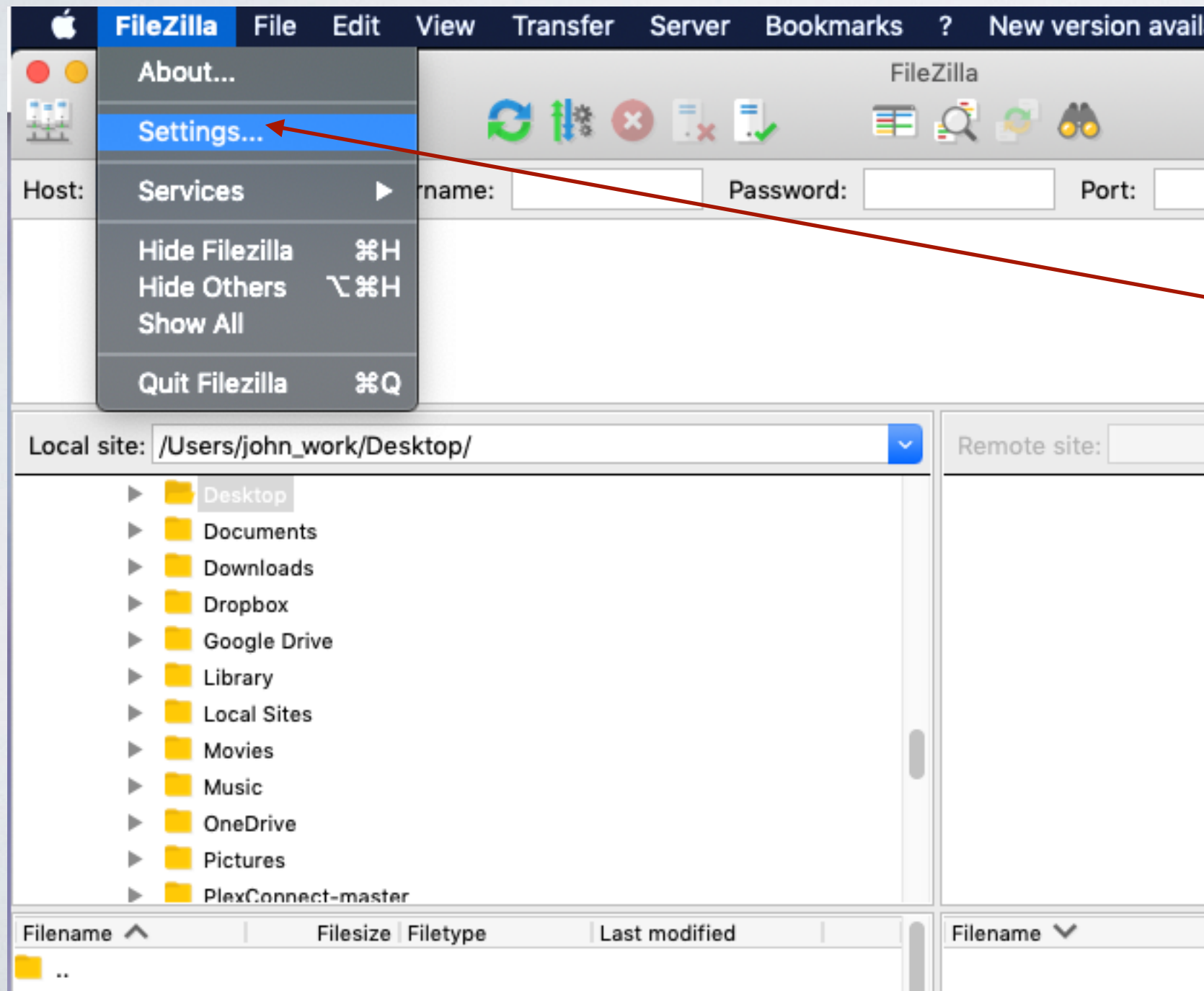
Click on Settings

FILEZILLA

Click on on SFTP and then on Add key file
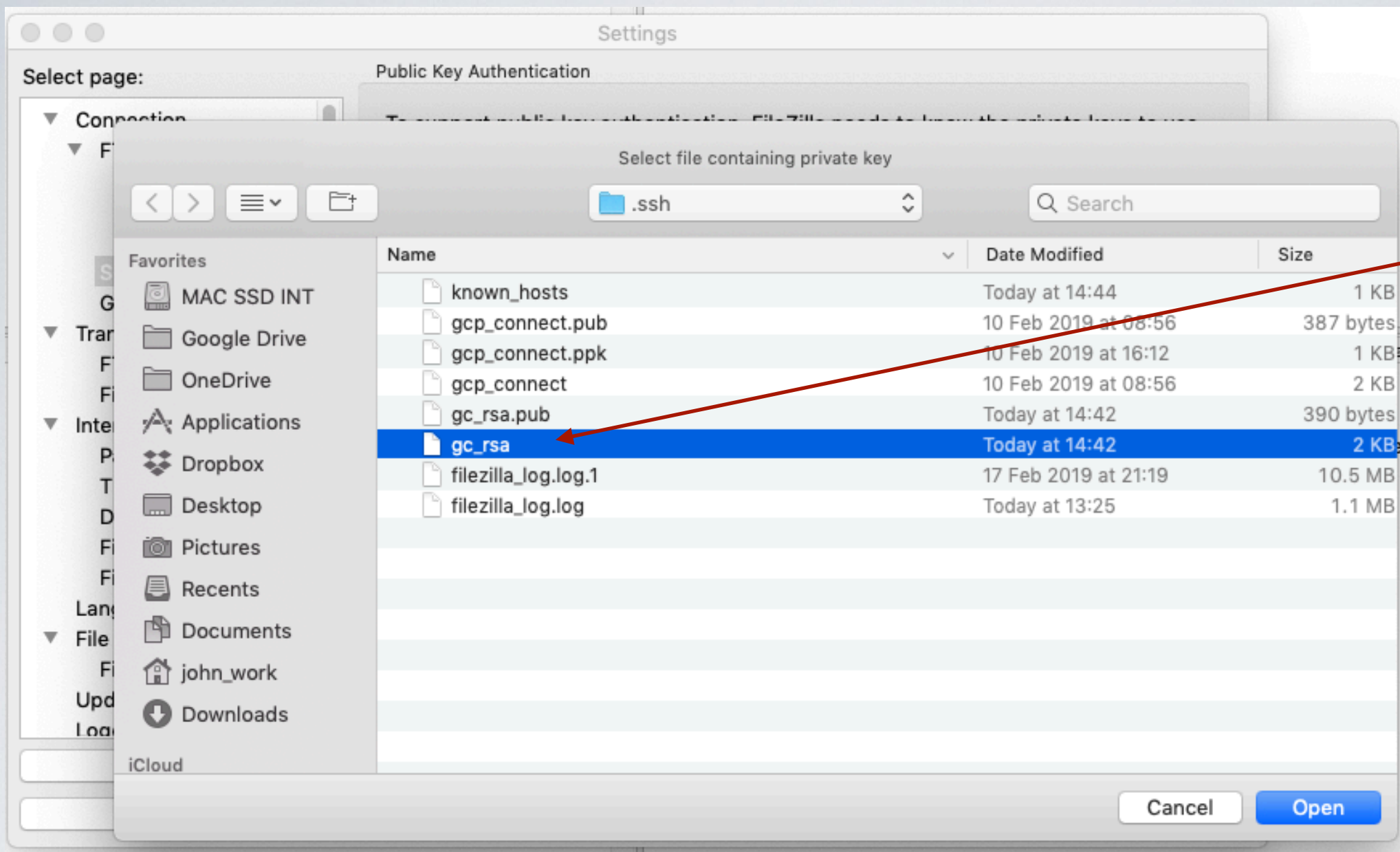
Pick your private key
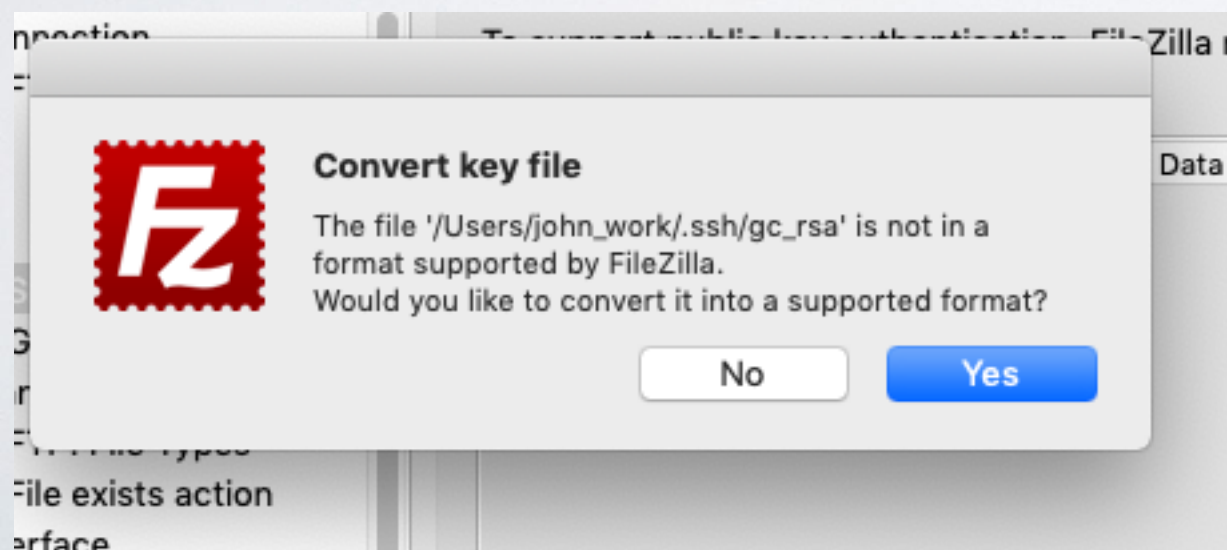
Click Yes to convert

Click on Site Manager

Site Manager

Select Entry:
- ▼ 📁 My Sites
  - 📱 JohnSite
  - 📱 TestSite

General | Advanced | Transfer Settings | Charset

Protocol: SFTP - SSH File Transfer Protocol

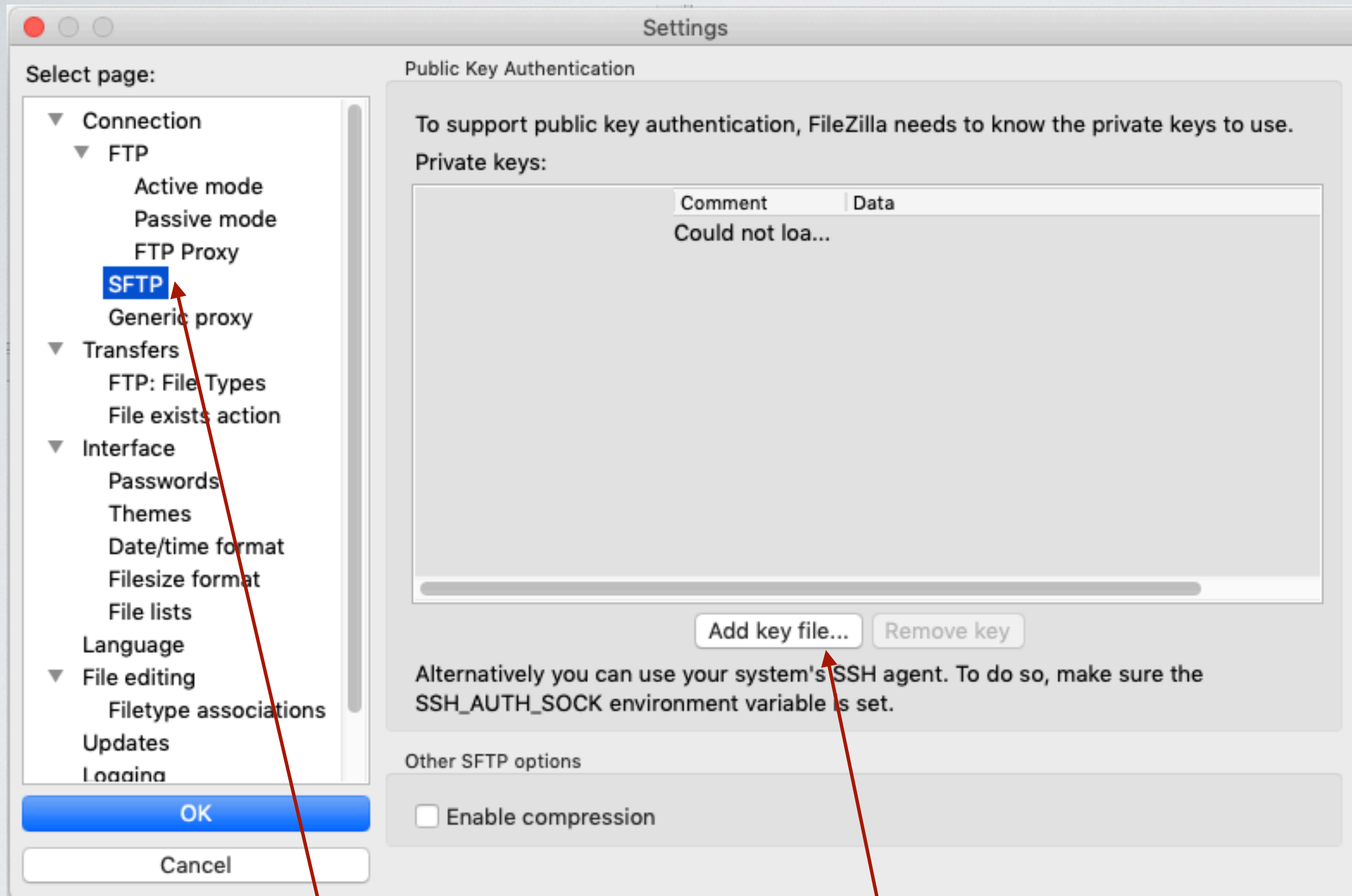Host: 35.246.78.104   Port:

Logon Type: Key file

User: johnTest

Key file: Browse...

Background color: None

Comments:

New Site | New Folder
New Bookmark | Rename
Delete | Duplicate

Connect | OK | Cancel
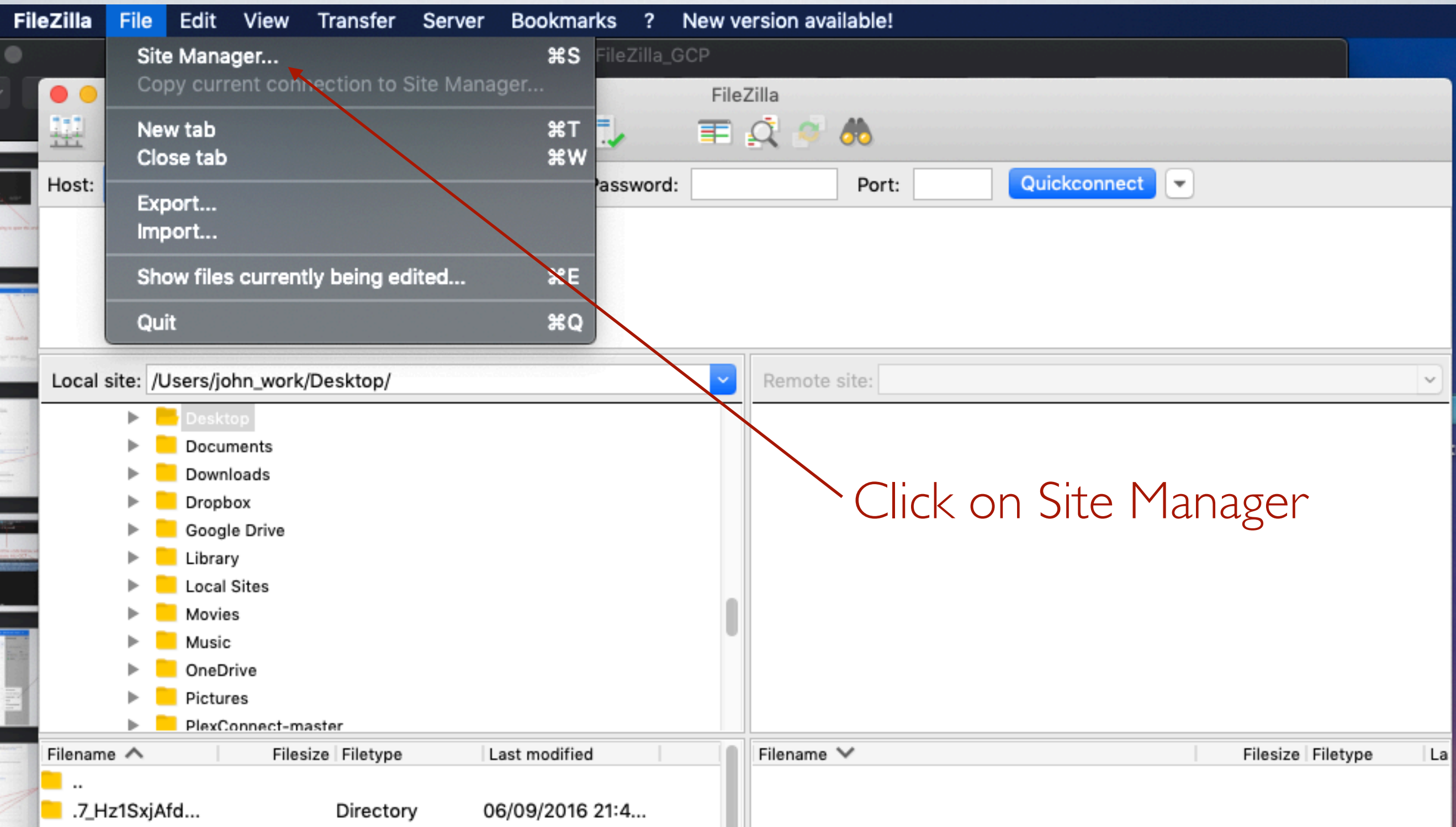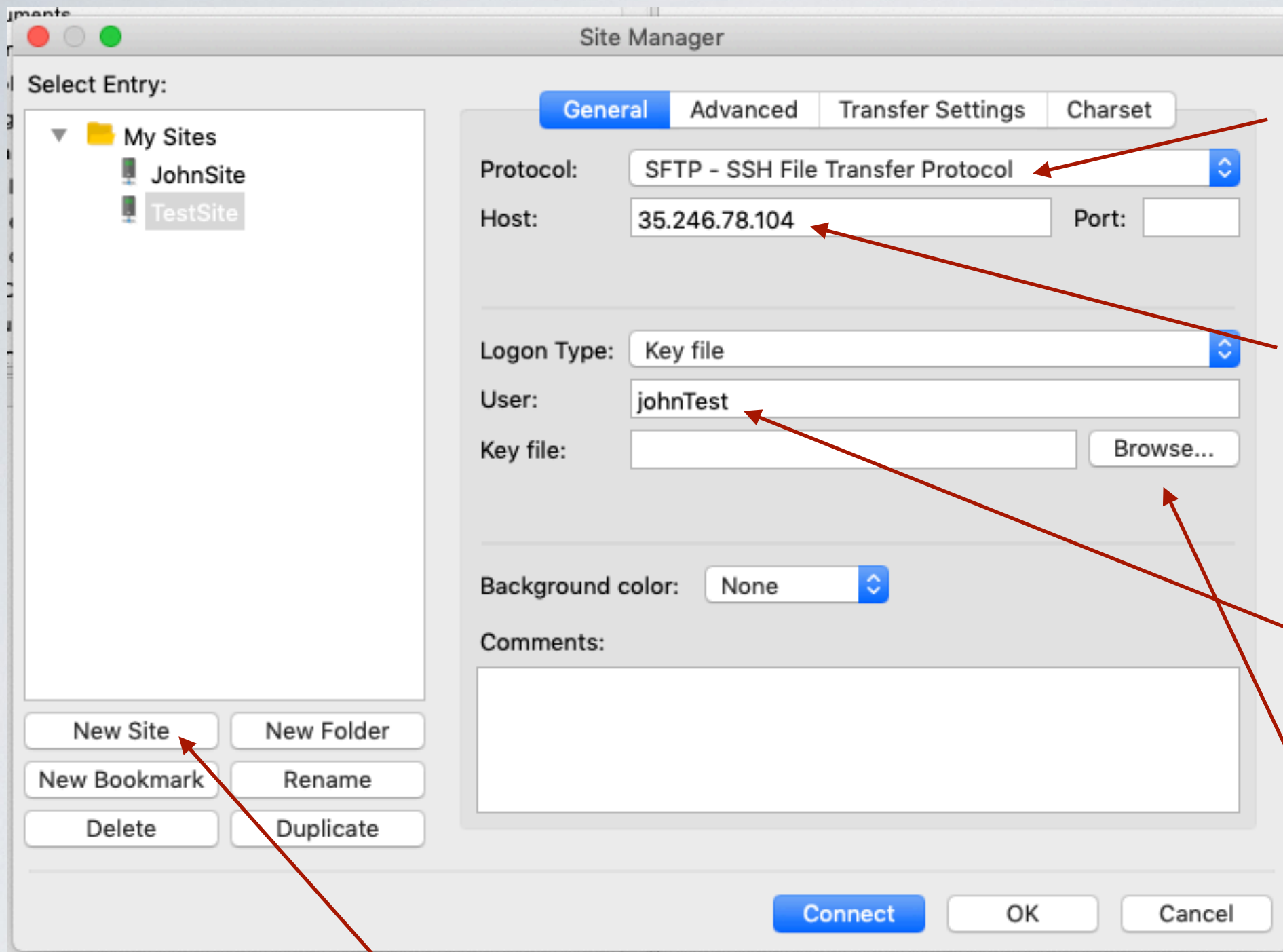
2. Choose SFTP as your protocol

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 your passphrase, and you should be connected.

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
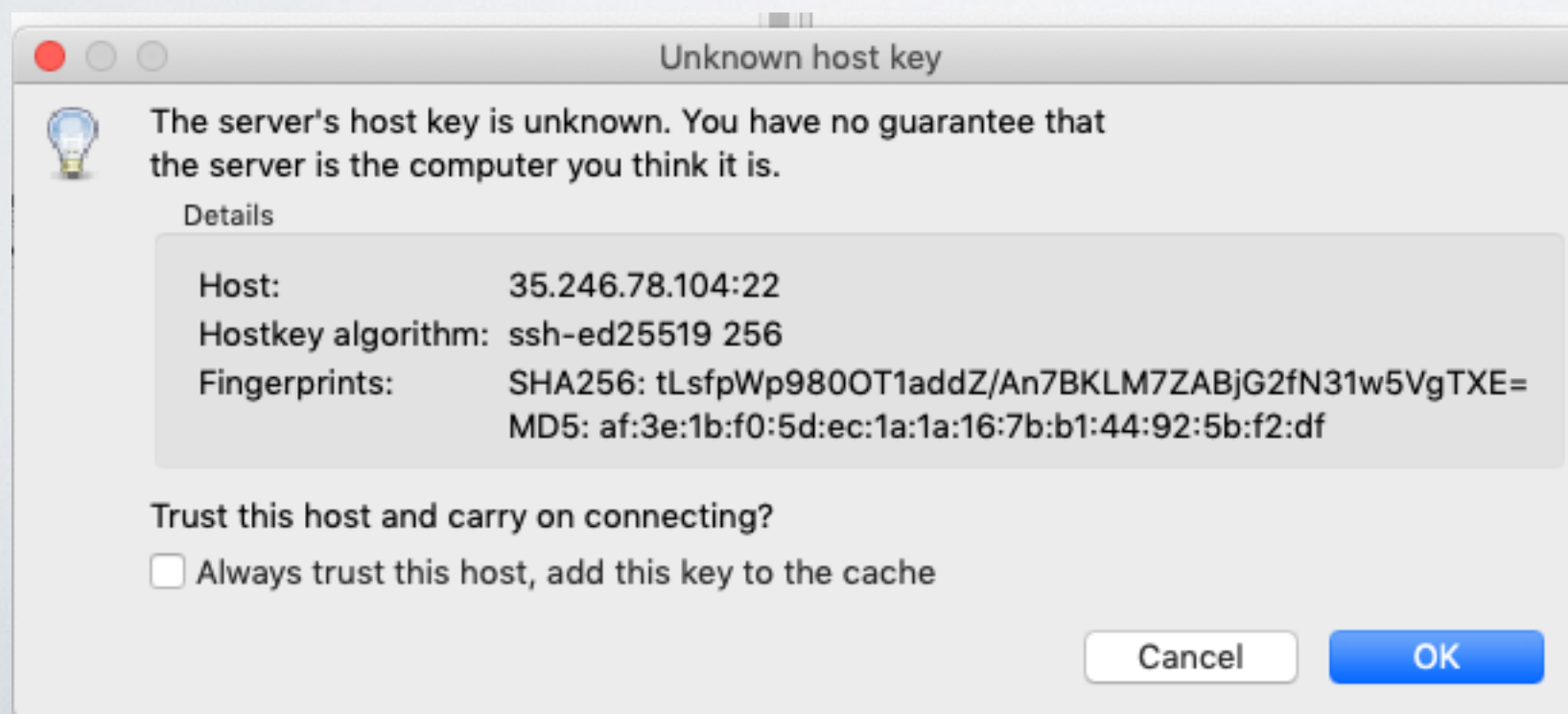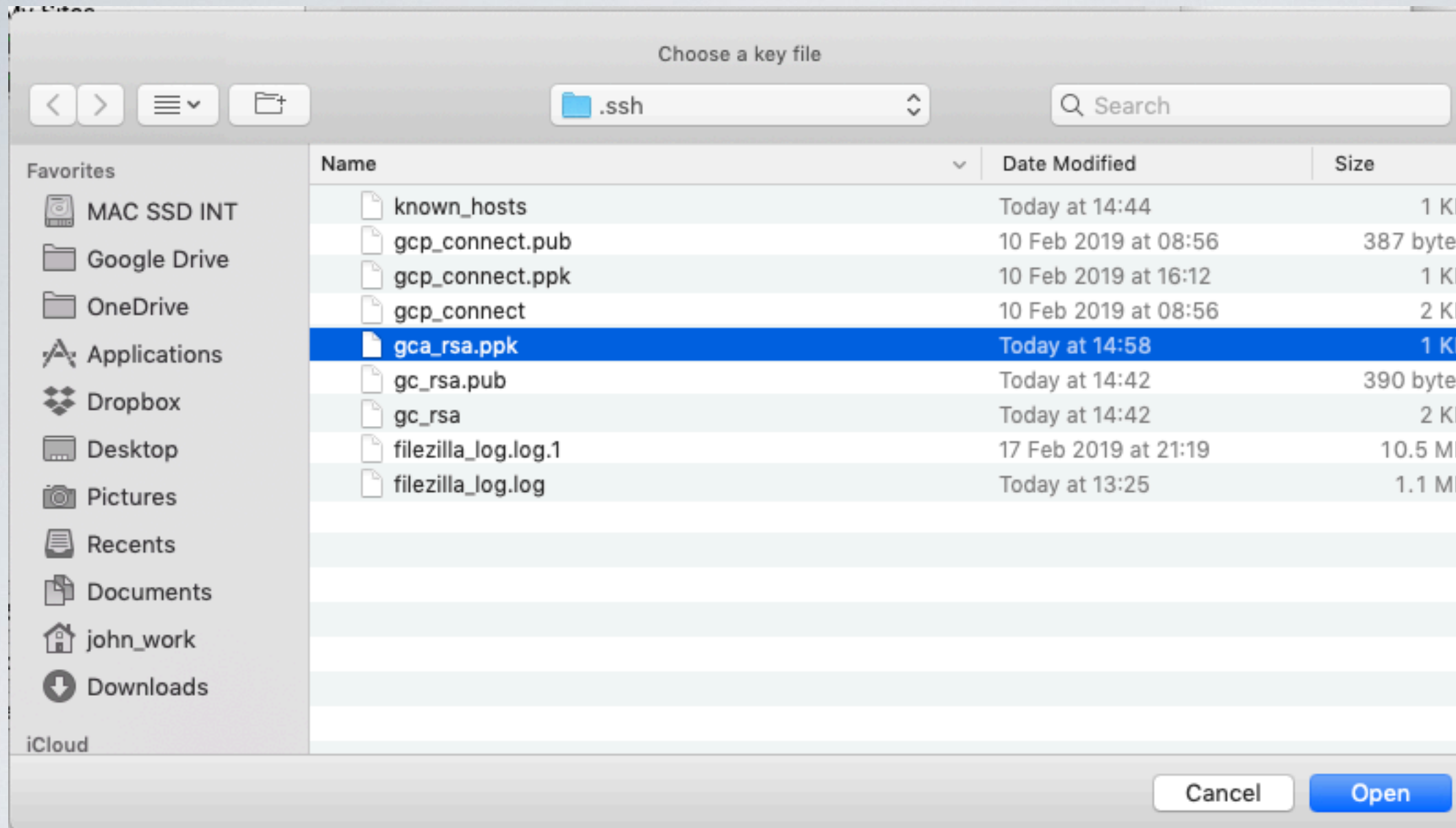
OK   Cancel

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/

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

Remote site: /home/johnTest

▼ ❓ /
  ▼ ❓ 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...

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

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

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