



Second: Connecting to an AWS EC2 instance – Windows & PuTTY

PuTTY is a free SSH client

Adapted from instructions created by C. Stoner (ASF) and AWS

In this document you will find:

- A. Background
- B. Materials List
- C. Steps

A) Background

These instructions are simply to help you connect to the EC2 instance you configured in the previous set of instructions. This recipe uses PuTTY, but any similar program can be used.

B) Materials

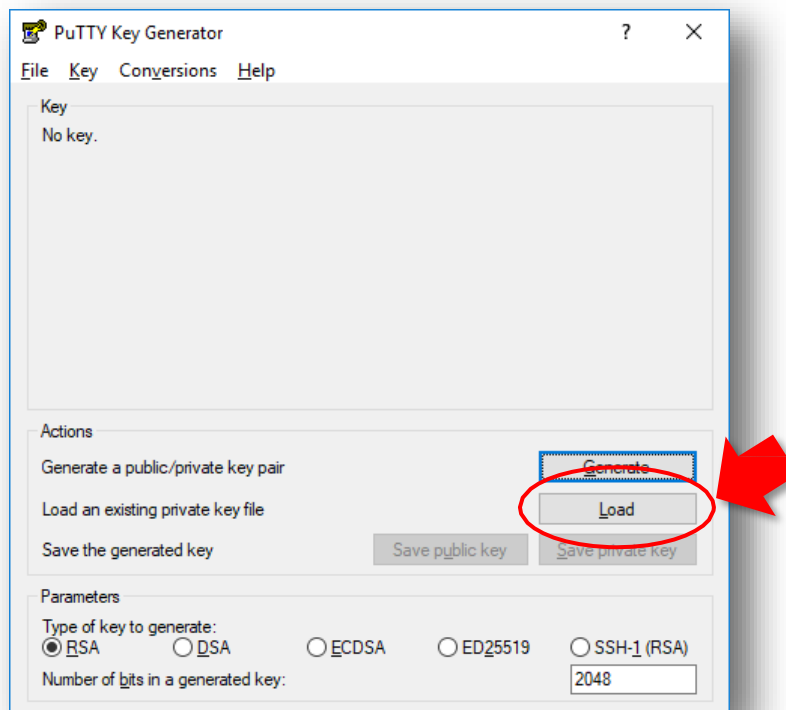
- A. Existing AWS account
- B. Existing EC2 instance

C) Steps

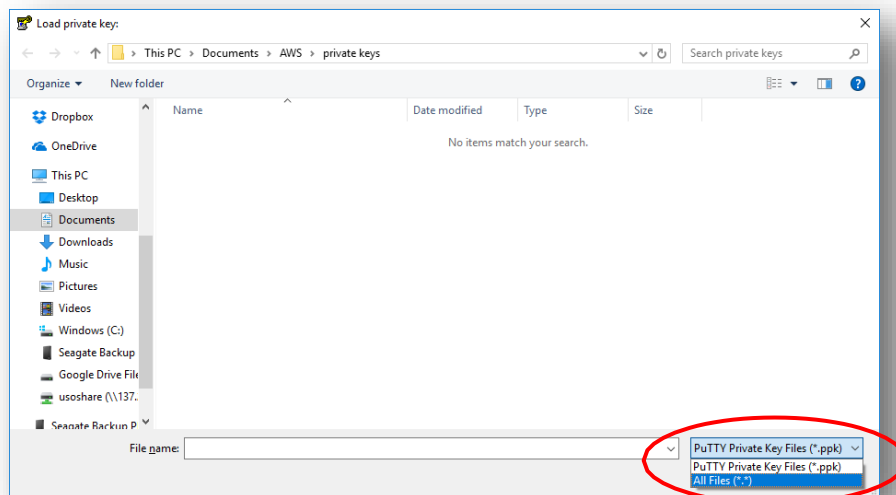
- A. Generate a PuTTY private key
- B. Connect to EC2 instance

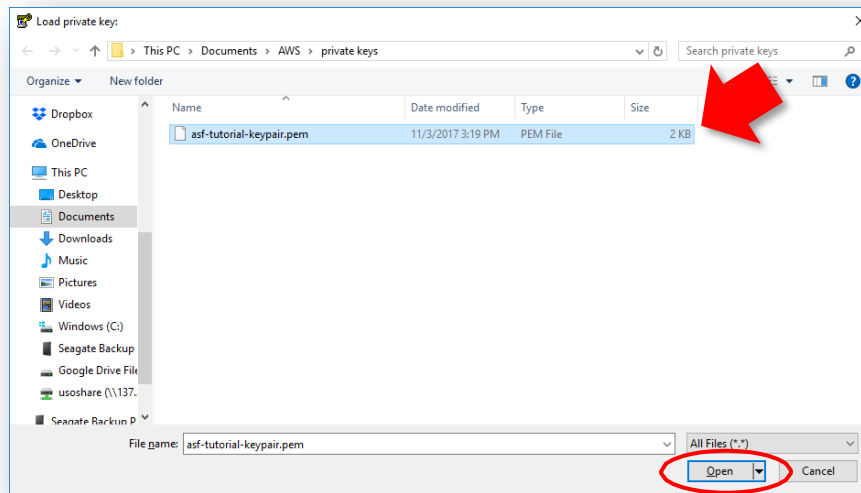
A) Generate a PuTTY Private Key(.ppk) file

1. Download and install PuTTY
<https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>
2. Open the folder that PuTTY was installed to (default path is **C: > Program Files > PuTTY**)
3. Double click on the file **puttygen.exe**

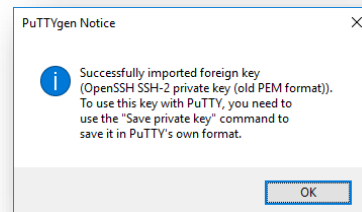


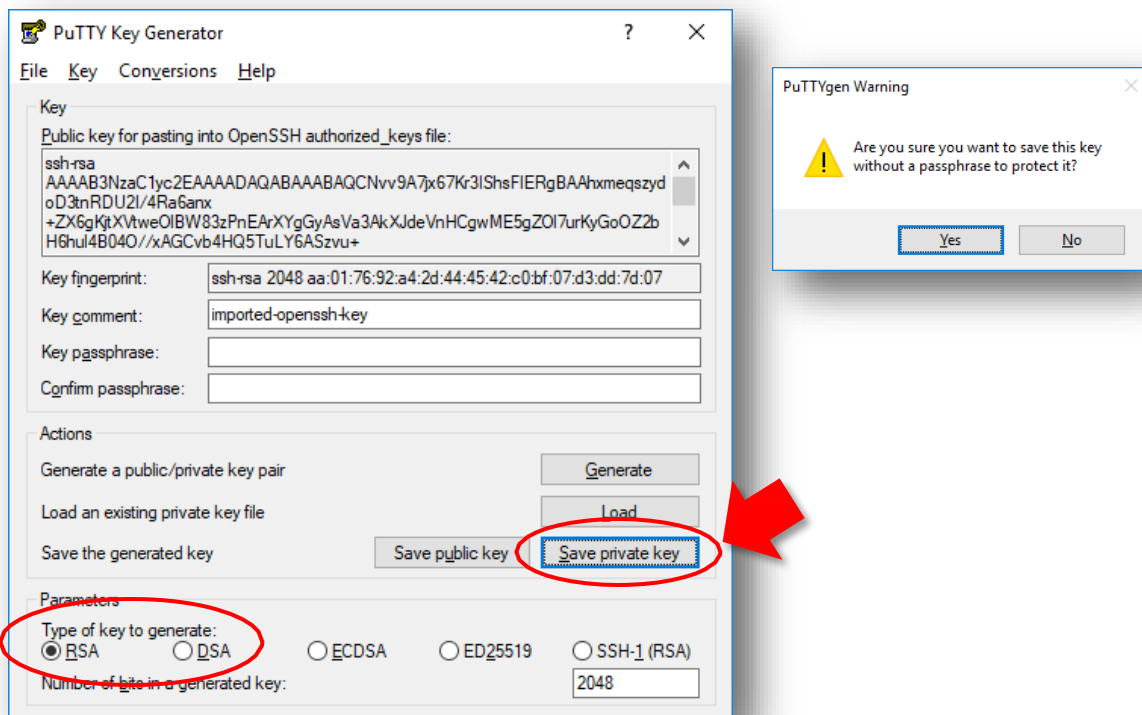
4. In PuTTY Key Generator, click the **Load** button and navigate to the folder that contains the private key file (.pem) created during the EC2 configuration process
5. Click on the **PuTTY Private Key Files** button in the lower right corner of the window and select **All Files (*.*)**
6. Select your private key file (.pem) and click **Open**



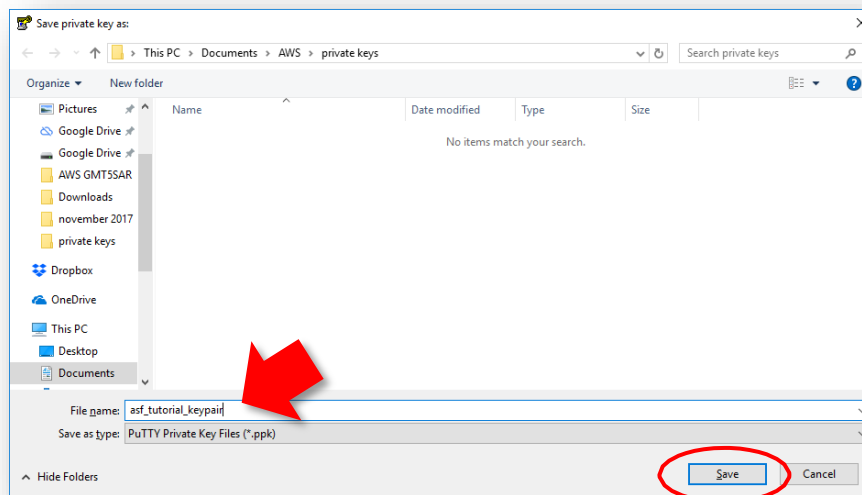


7. Click **OK** to close the *PuTTYgen Notice* window
8. In *PuTTY Key Generator*, make sure *Type of key to generate* value is set to **RSA**
9. Click **Save private key** and then **Yes** to close the *PuTTYgen Warning* window





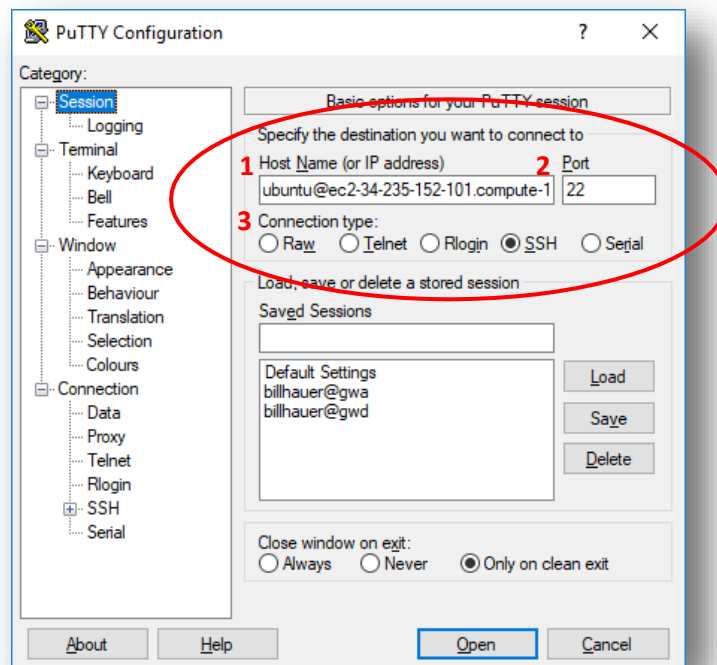
10. Navigate to the location you want to store your *PuTTY Private Key file (.ppk)* and give it a name



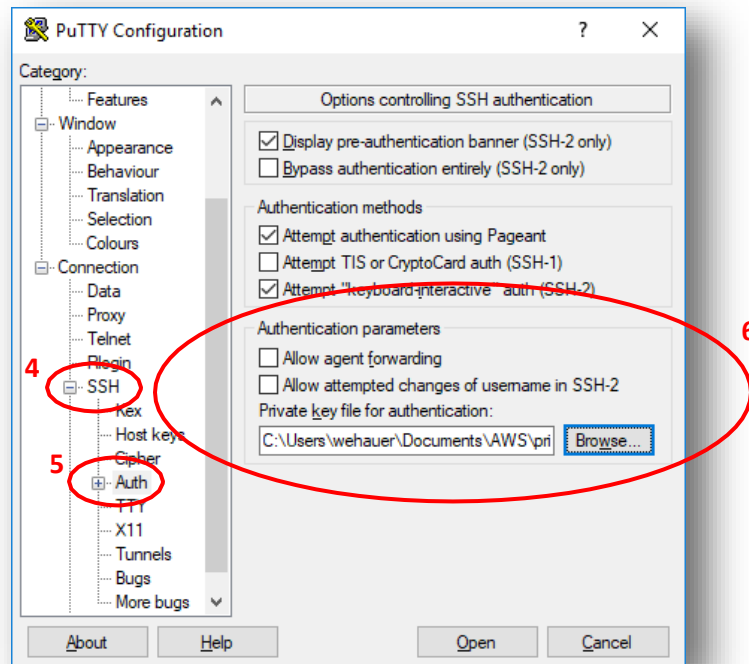
11. Click **Save**
12. Close the *PuTTY Key Generator* window

B) Connect to EC2

13. Open PuTTY by clicking on the desktop icon or the **putty.exe** file in the PuTTY folder
14. In the *Host Name (or IP address)* box, type **<ubuntu@your_public_DNS>** (See 1 in figure below)
 - a. *Note:* The **Public DNS** for your instance is displayed in AWS in the EC2 Management Console *Instance Description* in the middle of the screen
15. Make sure:
 - a. *Port* is set to **22** (See 2 in figure below)
 - b. *Connection type* is **SSH** (See 3 figure below)

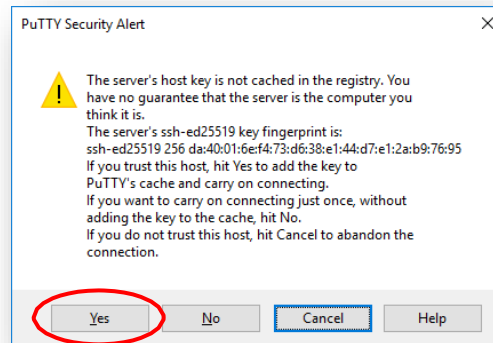


16. In the *Category* pane on the left, under *Connection* click on the + next to *SSH* to expand the choices, then click on *Auth* (See 4 & 5 in figure below)
17. Under *Authentication parameters*, click **Browse** and navigate to the directory where your *PuTTY Private Key (.ppk)* file is located (See 6 in figure below)
 - a. Click on the (.ppk) file to select it
18. Click **Open**



If you want to save these settings to use later, navigate to **Sessions** in the PuTTY **Category** tree. Enter a name in the **Saved Sessions** box and click **Save** on the right.

19. Click **Open** in *PuTTY Configuration* to connect to your Instance
 - a. If this is the first time you have connected to your Instance, a “PuTTY Security Alert” will ask you whether to proceed with the connection
 - b. Click **Yes** to complete the connection
 - c. The EC2 instance window will appear (black screen below)



```
ubuntu@ip-172-31-27-33: ~  
Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.4.0-1022-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
Get cloud support with Ubuntu Advantage Cloud Guest:  
http://www.ubuntu.com/business/services/cloud  
  
0 packages can be updated.  
0 updates are security updates.  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-27-33:~$
```

You are now connected to your EC2 instance!

Next step: See the directions for moving files in and out of EC2

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