Quick Guide – Use Putty to connect to EC2 instance over SSH

Objective

This guide has been written to help you understand how to use Putty to connect to an EC2 instance over SSH.

Background

In order to connect to an EC2 instance over SSH, it is necessary to use a tool such as Putty.

Before you begin, you must make sure that:

- the instance is running
- the security group (firewall) permits inbound traffic through port 22
- you have a copy of the EC2 key pair

Further reading

Should you require any further information, please refer to the following resource:

http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html

Note: If you find that some of the screen shots or steps are out of date, **please report** them to your trainer.

Stage 1: Download Putty

If you do not already have a copy of Putty, you can download it from the following url: http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html $\begin{tabular}{ll} \begin{tabular}{ll} \beg$ ☆ 🐠 ち 🗏 PuTTY Download Page Home | Licence | FAQ | Docs | Download | Keys | Links Mirrors | Updates | Feedback | Changes | Wishlist | Team Here are the PuTTY files themselves: PuTTY (the Telnet and SSH client itself)
PSCP (an SCP client, i.e. command-line secure file copy)
PSFTP (an STP client, i.e. general file transfer sessions much like FTP)
PuTTYtel (a Telnet-only client)
Plinik (a command-line interface to the PuTTY back ends)
Pagearu (an SSH authenticand agent for PuTTY, PSCP, PSFTP, and Plink)
PuTTYgen (an RSA and DSA key generation utility). LEGAL WARNING: Use of PuTTY, PSCP, PSFTP and Plink is illegal in countries where encryption is outlawed. I believe it is legal to use PuTTY, PSCP, PSFTP and Plink in England and Wales and in many other countries, but I am not a lawyer and so if in doubt you should seek legal advice before downloading it. You may find this site useful (it's a survey of cryptography laws in many countries) but I can't vouch for its correctness. Use of the Telnet-only binary (PuTTYtel) is unrestricted by any cryptography laws. There are cryptographic signatures available for all the files we offer below. We also supply cryptographically signed lists of checksums. To download our public keys and find out more about our signature policy, visit the Keys page. If you need a Windows program to compute MD5 checksums, you could try the one at this site. (This MD5 program is also cryptographically signed by its author.) The latest release version (beta 0.64). This will generally be a version I think is reasonably likely to work well. If you have a problem with the release version, it might be worth trying out the latest development snapshot (below) to see if I've already fixed the bug, before reporting it to me. (DSA sig) (DSA sig) putty.exe puttytel.exe PuTTYtel: puttytel exe pscp.exe psftp.exe plink exe pageant exe puttygen exe (or by FTP) (RSA sig) PSCP: (or by FTP) (RSA sig) (DSA sig) (or by FTP) (or by FTP) (or by FTP) (or by FTP) (RSA sig) (RSA sig) (RSA sig) (RSA sig) (DSA sig) (DSA sig) (DSA sig) (DSA sig) PSFTP: A .ZIP file containing all the binaries (except PuTTYtel), and also the help files Zip file: putty.zip (or by FTP)

A Windows installer for everything except PuTTYtel

Installer (DSA sig)

Locate the most appropriate the **putty.exe** binary for your client machine and download a copy to a convenient location. Binaries The latest release version (beta 0.64). This will generally be a version I think is reasonably likely to wo snapshot (below) to see if I've already fixed the bug, before reporting it to me. For Windows on Intel x86 (RSA sig) (DSA sig) PuTTY: putty.exe (or by FTP) (RSA sig) PuTTYtel: puttytel.exe (or by FTP) (DSA sig) PSCP: (RSA sig) (or by FTP) (DSA sig) pscp.exe PSFTP: psftp.exe (or by FTP) (RSA sig) (DSA sig) Plink: plink.exe (or by FTP) (RSA sig) (DSA sig) Pageant: pageant.exe (or by FTP) (RSA sig) (DSA sig) PuTTYgen: (or by FTP) (RSA sig) (DSA sig) puttygen.exe A .ZIP file containing all the binaries (except PuTTYtel), and also the help files Zip file: putty.zip (or by FTP) (RSA sig) (DSA sig) A Windows installer for everything except PuTTYtel Installer: putty-0.64-installer.exe (or by FTP) (RSA sig) (DSA sig) Checksums for all the above files MD5: md5sums (or by FTP) (RSA sig) (DSA sig) SHA-1: $\underline{sha1sums}$ (or by FTP) (RSA sig) (DSA sig) (RSA sig) (DSA sig) he.earth.li/~sgtatham/putty/latest/x86/putty.exe

Stage 2 - Download Puttygen

Although you will use Putty to connect to your EC2 instances, you will also need to download Puttygen.

Puttygen is needed to convert any EC2 key pair **pem** file you may have into a **ppk** file which Putty requires.

4 Locate the **puttygen.exe** binary and download a copy to a convenient location.

Binaries

The latest release version (beta 0.64). This will generally be a version I think is reasonably likely to wo snapshot (below) to see if I've already fixed the bug, before reporting it to me.

For Windows on Intel x86

PuTTY:	putty.exe	(or by FTP)	(RSA sig)	(DSA sig)		
PuTTYtel:	puttytel.exe	(or by FTP)	(RSA sig)	(DSA sig)		
PSCP:	pscp.exe	(or by FTP)	(RSA sig)	(DSA sig)		
PSFTP:	psftp.exe	(or by FTP)	(RSA sig)	(DSA sig)		
Plink:	plink.exe	(or by FTP)	(RSA sig)	(DSA sig)		
Pageant:	pageant.exe	(or by FTP)	(RSA sig)	(DSA sig)		
PuTTYgen:	puttygen.exe	(or by FTP)	(RSA sig)	(DSA sig)		
A .ZIP file containing all the binaries (except PuTTYtel), and also the help files						
Zip file:	putty.zip	(or by FTP)	(RSA sig)	(DSA sig)		

A Windows installer for everything except PuTTYtel							
Installer:	putty-0.64-installer.exe	(or by FTP)	(RSA sig)	(DSA sig)			
Checksums for all the above files							

MD5: md5sums

SHA-1:	sha1sums	(or by FTP)	(RSA sig)	(DSA sig)
SHA-256:	sha256sums	(or by FTP)	(RSA sig)	(DSA sig)
SHA-512:	sha512sums	(or by FTP)	(RSA sig)	(DSA sig)

(or by FTP)

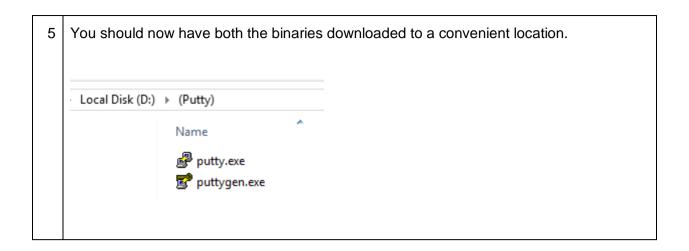
The latest development snapshot. This will be built every day, automatically, from the current developm able to find a fixed PuTTY here well before the fix makes it into the release version above. On the other

the.earth.li/~sgtatham/putty/latest/x86/puttygen.exe

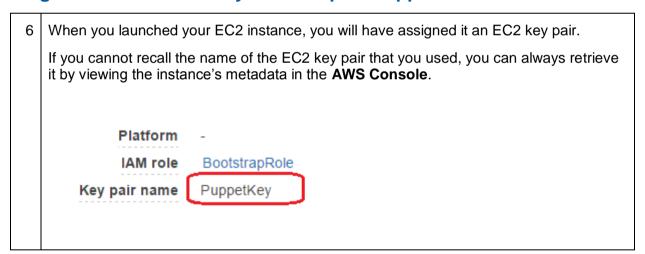
ot date, so it will change every 1

(DSA sig)

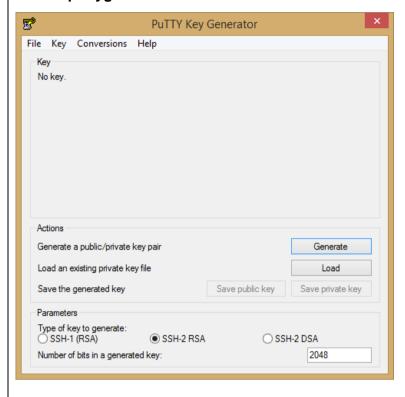
(RSA sig)



Stage 3 – Convert EC2 key file from pem to ppk



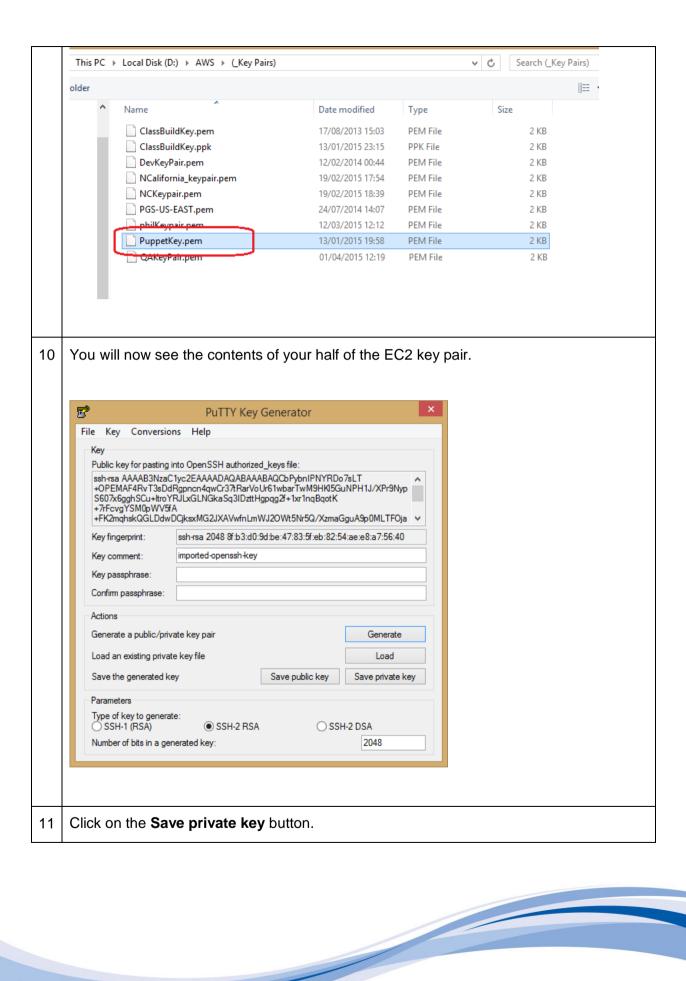
7 Launch puttygen.exe.

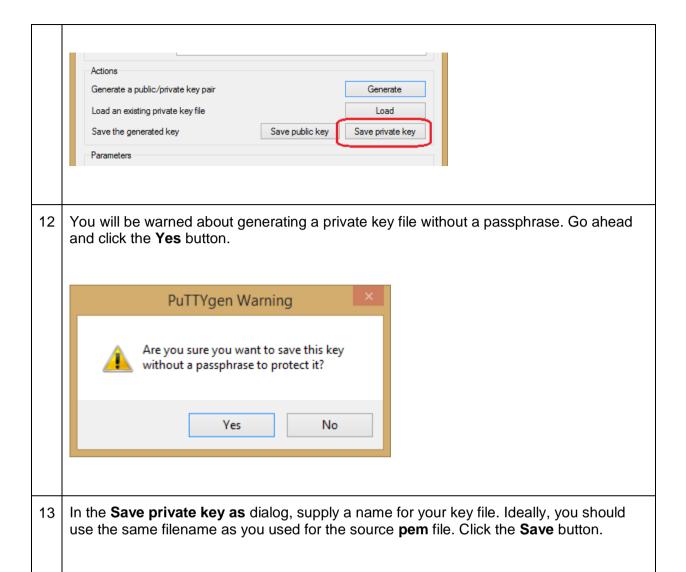


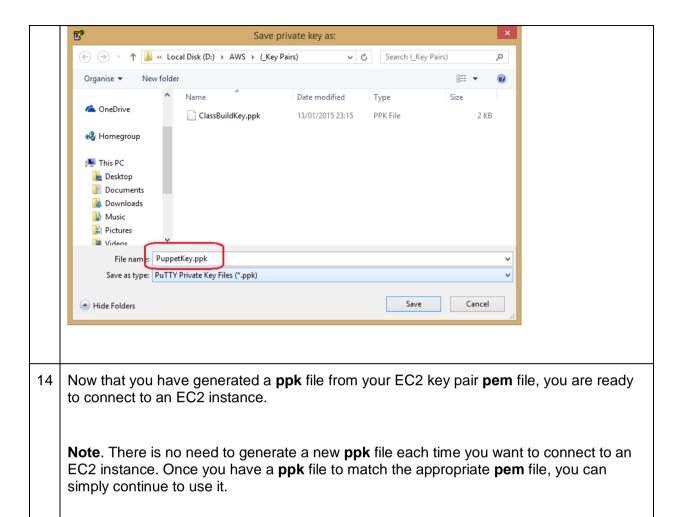
8 Select **Import key** from the **Conversions** menu.



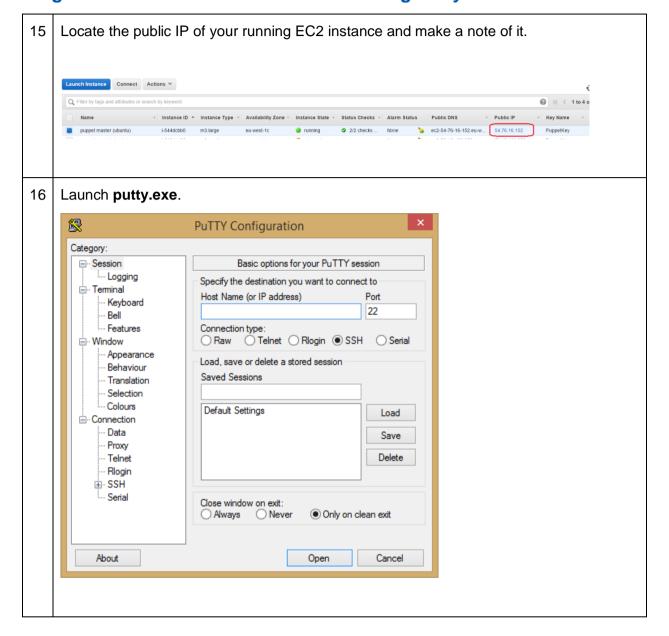
9 Locate the EC2 key pair **pem** file that relates to the EC2 instance that you wish to connect to and then click the **Open** button.



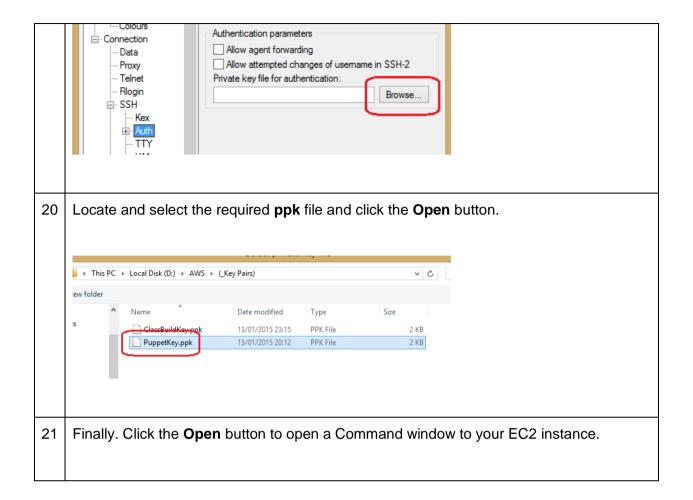


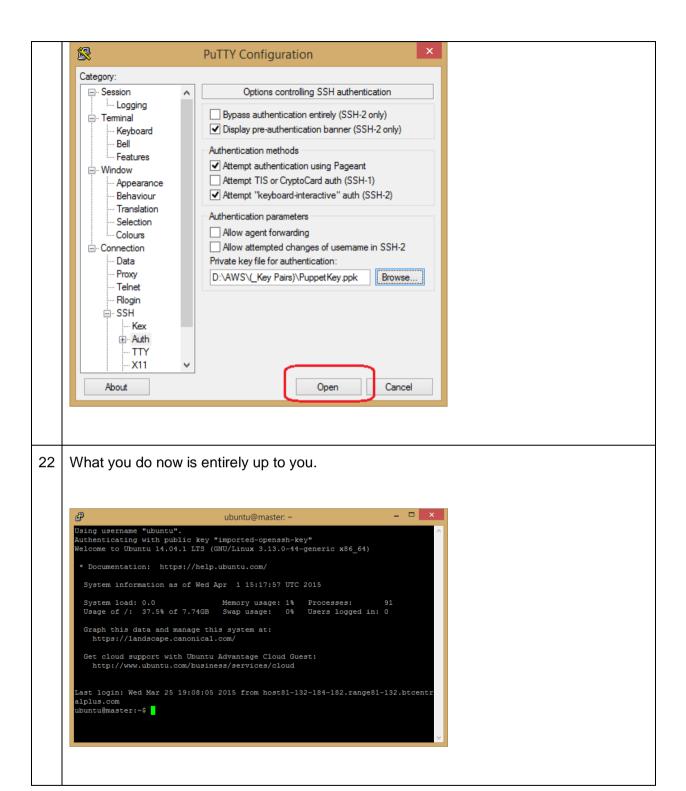


Stage 4 - Connect to an EC2 instance using Putty



17 Enter the EC2 instance's public IP address prefixed with the appropriate username using the format: <username>@<public-IP> **PuTTY Configuration** Category: — Session Basic options for your PuTTY session Logging Specify the destination you want to connect to - Teminal Keyboard ubuntu@54.76.16.152 Bell -- Features Connection type: Raw Telnet Rlogin SSH Serial - Window --- Appearance **Note**. The user name depends on the type of EC2 instance. If it is an Ubuntu server then the username will be ubuntu. However, if you are connecting to a Linux server, the username will be ec2-user. 18 Expand the **Connection** category and click on the **Auth** node. ···· Colours Authentication parameters - Connection Allow agent forwarding · Data Allow attempted changes of username in SSH-2 Proxy Telnet Private key file for authentication: Rlogin Browse... ...SSH 19 Click on the **Browse** button to locate the required **ppk** file.





Congratulations. You have successfully downloaded **putty.exe** and **puttygen.exe**, used **puttygen.exe** to generate a **ppk** file and then used **putty.exe** to connect to an EC2 instance over SSH.

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