

AWS Educate Ubuntu 虛擬機架設

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2018.10.2

Account 使用

- 建立 Lab
- 利用 Lab 建立Ubuntu虛擬機
- PuTTY下載



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Jia En Wang

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點選AWS Account

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2m setup · 524160m access · 524160m completion

★★★★☆☆ [Rate Lab](#) [Lab Details](#)

Connection Details

[Open Console](#)

Warning: Do not transmit data into the AWS Console that is not related to Qwiklabs or the lab you are taking.

Access Key Id

.....

Secret Access Key

.....

開啟 Lab



Start Lab

\$75.00

364 days

Lab completed on Sun, 23 Sep 2018 22:13:55 -0400. Elapsed time: 4104 minutes



AWS services

Find a service by name or feature (for example, EC2, S3 or VM, storage).



Recently visited services



EC2



點選EC2



Billing

➤ All services

Build a solution

Get started with simple wizards and automated workflows.



Launch a virtual machine

With EC2
~2-3 minutes



Build a web app

With Elastic Beanstalk
~6 minutes



Build using virtual servers

With Lightsail
~1-2 minutes



Connect an IoT device

With AWS IoT
~5 minutes



Start a development project

With CodeStar
~5 minutes



Register a domain

With Route 53
~3 minutes

See more

Helpful tips



Manage your costs

Monitor your AWS costs, usage, and reservations using AWS Budgets. [Start now](#)



Create an organization

Use AWS Organizations for policy-based management of multiple AWS accounts. [Start now](#)

Explore AWS

Machine Learning with Amazon SageMaker

The fastest way to build, train, and deploy machine learning models. [Learn more.](#)

Amazon Relational Database Service (RDS)

RDS manages and scales your database for you. RDS supports Aurora, MySQL, PostgreSQL, MariaDB, Oracle,



Services ▾

Resource Groups ▾



105021056 @ 3273-8411-8077 ▾

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Lifecycle Manager

Resources

You are using the following Amazon EC2 resources in the US West (Oregon) region:

You are not authorized to describe Running Instances

You are not authorized to describe Dedicated Hosts

You are not authorized to describe Volumes

You are not authorized to describe Key Pairs

You are not authorized to describe Placement Groups

You are not authorized to describe Elastic IPs

You are not authorized to describe Snapshots

Error retrieving resource count

You are not authorized to describe Security Groups

Learn more about the latest in AWS Compute from AWS re:Invent 2017 by viewing the [EC2 Videos](#).

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance ▾



進入 Launch Instance

Note: Your instances will launch in the US West (Oregon) region

Service Health

Service Status:



Scheduled Events

US West (Oregon):



Account Attributes



Supported Platforms

An error occurred retrieving supported platforms

Default VPC

An error occurred checking for a default VPC

Resource ID length management

Console experiments

Additional Information

[Getting Started Guide](#)

[Documentation](#)

[All EC2 Resources](#)

[Forums](#)

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AWS Marketplace

Find free software trial products in the AWS



Services ▾

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1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

[Cancel and Exit](#)

Step 1: Choose an Amazon Machine Image (AMI)



SUSE Linux

Free tier eligible

SUSE Linux Enterprise Server 15 (HVM), SSD Volume Type - ami-0de02b68de6f5f732

SUSE Linux Enterprise Server 15 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

64-bit



Free tier eligible

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-0bbe6b35405ecebdb

Ubuntu Server 18.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

選擇ubuntu 18.04



Select

64-bit



Amazon RDS

Are you launching a database instance? Try Amazon RDS.

Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale your database on AWS by automating time-consuming database management tasks. With RDS, you can easily deploy **Amazon Aurora**, **MariaDB**, **MySQL**, **Oracle**, **PostgreSQL**, and **SQL Server** databases on AWS. [Aurora](#) is a MySQL- and PostgreSQL-compatible, enterprise-class database at 1/10th the cost of commercial databases. [Learn more about RDS](#)

[Launch a database using RDS](#)

[Hide](#)



Services ▾

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[1. Choose AMI](#)[2. Choose Instance Type](#)[3. Configure Instance](#)[4. Add Storage](#)[5. Add Tags](#)[6. Configure Security Group](#)[7. Review](#)

Step 2: Choose an Instance Type

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family ▾	Type ▾	vCPUs ⓘ ▾	Memory (GiB) ▾	Instance Storage (GB) ⓘ ▾	EBS-Optimized Available ⓘ ▾	Network Performance ⓘ ▾	IPv6 Support ⓘ ▾
☐	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
☒	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
☐	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes

[Cancel](#)[Previous](#)[Review and Launch](#)[Next: Configure Instance Details](#)

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Step 7: Review Instance Launch

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

▼ Security Groups

[Edit security groups](#)**Security group name**

launch-wizard-1

Description

launch-wizard-1 created 2018-09-24T12:56:29.128+08:00

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ	Description ⓘ
--------	------------	--------------	----------	---------------

This security group has no rules

▶ Instance Details

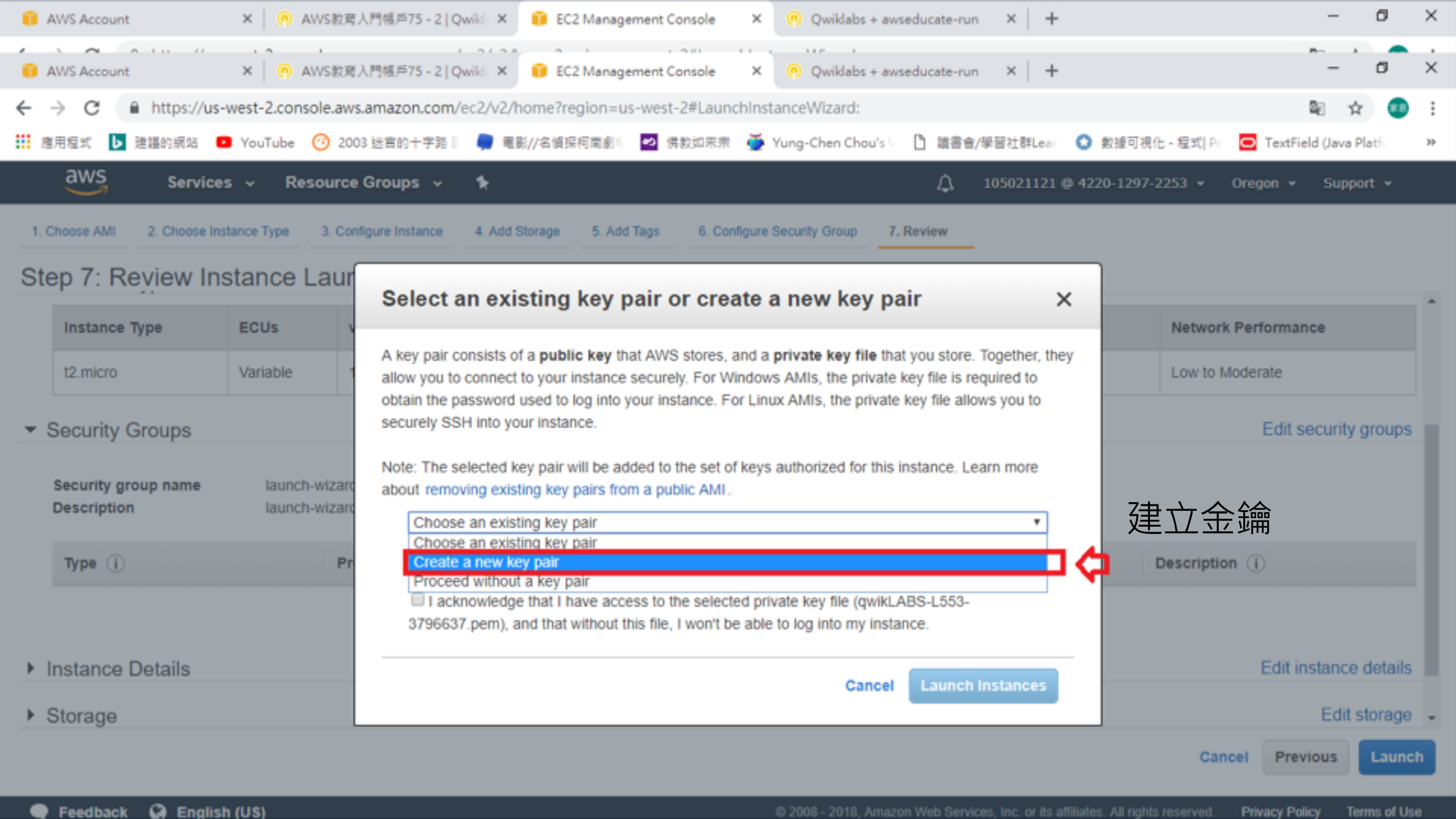
[Edit instance details](#)

▶ Storage

[Edit storage](#) ▾[Cancel](#)[Previous](#)[Launch](#)[Feedback](#)[English \(US\)](#)

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Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair

Choose an existing key pair

Create a new key pair

Proceed without a key pair

☐ I acknowledge that I have access to the selected private key file (qwikLABS-L553-3796637.pem), and that without this file, I won't be able to log into my instance.

Cancel

Launch Instances

建立金鑰

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 7: Review Instance Launch

Instance Type

ECUs

t2.micro

Variable

▼ Security Groups

Security group name

launch-wizard

Description

launch-wizard

Type ⓘ

Pre

▶ Instance Details

Network Performance

Low to Moderate

[Edit security groups](#)

Description ⓘ

[Edit instance details](#) ▾

Cancel

Previous

Launch

Select an existing key pair or create a new key pair



A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair

輸入您要的金鑰

Key pair name

Demo123

Download Key Pair

把金鑰下載下來



You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

最後Launch Instances



Launch Instances

Demo123.pem

全部顯示



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Launch Status

[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

▼ Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

[Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)

[Create and attach additional EBS volumes](#) (Additional charges may apply)

[Manage security groups](#)

View Instances進入下一步

[View Instances](#)



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Filter by tags and attributes or search by keyword



1 to 1 of 1

☐	Name ▾	Instance ID ▾	Instance Type ▾	Availability Zone ▾	Instance State ▾	Status Checks ▾	Alarm Status	Public DNS (IPv4) ▾	IPv4
☐			t2.micro	us-west-2a	running	Initializing	None	ec2-54-212-204-224.us...	54.2

0/255



輸入你要的名子

Instance: i-03a4af33ccb8a054e Public DNS: ec2-54-212-204-224.us-west-2.compute.amazonaws.com

Description

Status Checks

Monitoring

Tags

Instance ID i-03a4af33ccb8a054e

Public DNS (IPv4) ec2-54-212-204-224.us-west-2.compute.amazonaws.com



putty



2

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地圖

新聞

更多

設定

工具

約有 42,700,000 項結果 (搜尋時間：0.31 秒)

接下來要下載putty

[Download PuTTY - a free SSH and telnet client for Windows](https://www.putty.org/)



<https://www.putty.org/> ▾ 翻譯這個網頁

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 ...

您已造訪這個網頁 4 次。上次造訪日期：2018/9/23

[PuTTY: a free SSH and Telnet client - Chiark](https://www.chiark.greenend.org.uk/~sgtatham/putty/)

<https://www.chiark.greenend.org.uk/~sgtatham/putty/> ▾ 翻譯這個網頁

2018年8月26日 - PuTTY is a free implementation of SSH and Telnet for Windows and Unix platforms,

along with an xterm terminal emulator. It is written and ...

[Download PuTTY: latest release \(0.70\) - Chiark](https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html)

<https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html> ▾ 翻譯這個網頁

2018年7月19日 - 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 ...

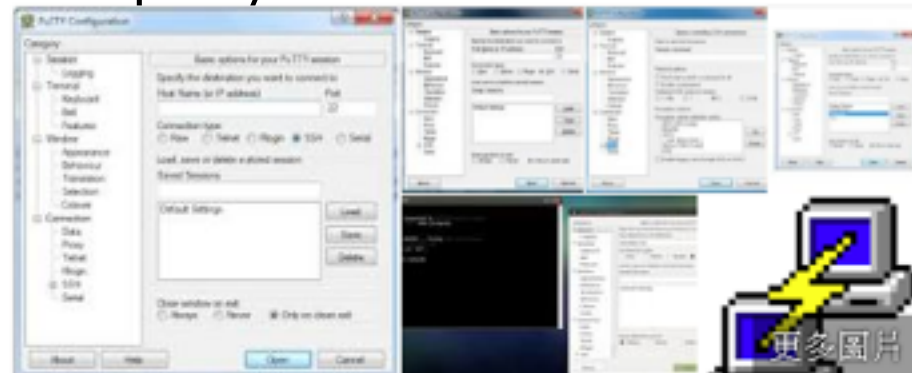
[PuTTY v0.70 最多人用的Telnet, SSH...伺服器連線工具\(+中文版\) - 【...](https://brilian.com/windows-putty/)

<https://brilian.com/windows-putty/> ▾ Windows 軟體、工具、網路工具、遠端遙控、連線監控 ▾

2017年10月18日 - 2017/10/18 更新：軟體版本更新至v0.70 最新版。PuTTY 是一個相當簡單實用的網路

連線工具，有自己架站、管理網站主機的人，幾乎都少不了這個 ...

[PuTTY - 維基百科，自由的百科全書 - Wikipedia](#)



PuTTY

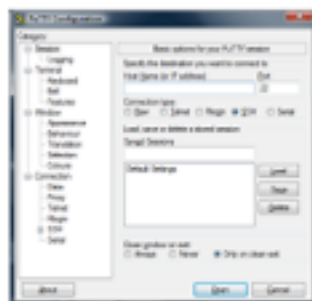
軟體

PuTTY是一款整合虛擬終端、系統控制台和網路檔案傳輸為一體的自由及開放原始碼的程序。它支援多種網路協定，包括SCP，SSH，Telnet，rlogin和原始的通訊端連線。它也可以連線到串列埠。其軟體名字「PuTTY」沒有特殊含義。 [維基百科](#)

編寫語言：C語言

其他人也搜尋了

[查看更多項目 \(超過 10 項\)](#)



下載PuTTY

PuTTY是一個SSH和telnet客戶端，最初由Simon Tatham為Windows平台開發。PuTTY是一個開源軟件。

你可以[在這裡](#)下載PuTTY。



以下建議獨立於PuTTY的作者。它們不應被視為PuTTY項目的認可。



Bitvise SSH客戶端

Bitvise SSH客戶端是Windows的SSH和SFTP客戶端。它由Bitvise專業開發和支持。SSH客戶端功能強大，易於安裝，易於使用。

- 圖形SFTP文件傳輸；
- 單擊遠程桌面隧道；
- 自動重新連接能力；
- 動態端口通過集成代理轉發；
- FTP-to-SFTP協議橋。

Bitvise SSH客戶端可以免費使用。你可以[在這裡下載](#)。

Download PuTTY: latest release (0.70)

[Home](#) | [FAQ](#) | [Feedback](#) | [Licence](#) | [Updates](#) | [Mirrors](#) | [Keys](#) | [Links](#) | [Team](#)
Download: [Stable](#) · [Snapshot](#) | [Docs](#) | [Changes](#) | [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")

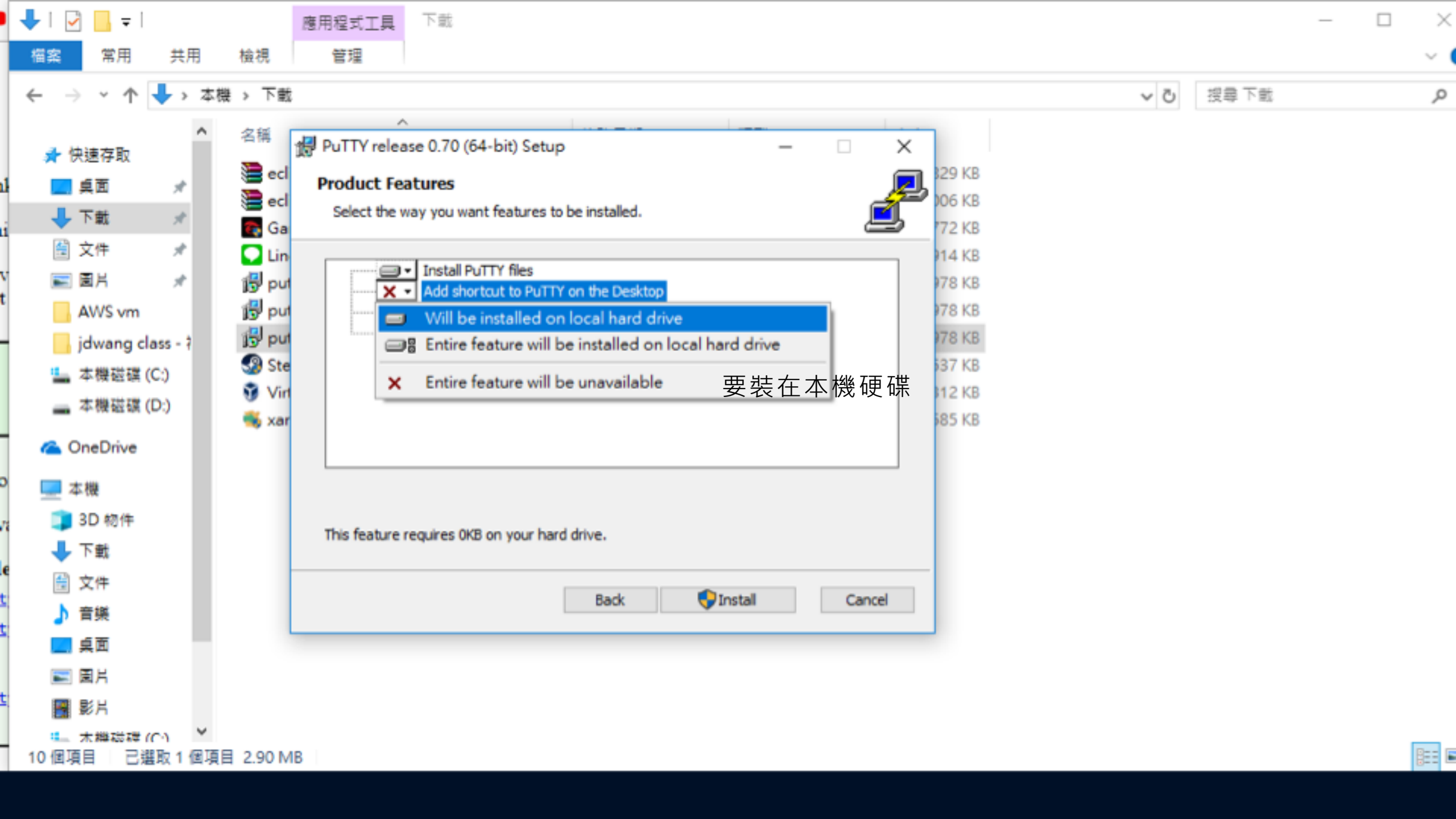
32-bit: [putty-0.70-installer.msi](#) (or by FTP) (signature)

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)

下載64位元的



應用程式工具

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jdwang class - ?

本機磁碟 (C:)

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本機

3D 物件

下載

文件

音樂

桌面

圖片

影片

本機磁碟 (C:)

名稱

ecl

ecl

Ga

Lin

put

put

put

Ste

Vir

xar

PuTTY release 0.70 (64-bit) Setup

Product Features

Select the way you want features to be installed.

- ☐ Install PuTTY files
- ☒ Add shortcut to PuTTY on the Desktop
- ☒ Will be installed on local hard drive
- ☐ Entire feature will be installed on local hard drive
- ☒ Entire feature will be unavailable

要裝在本機硬碟

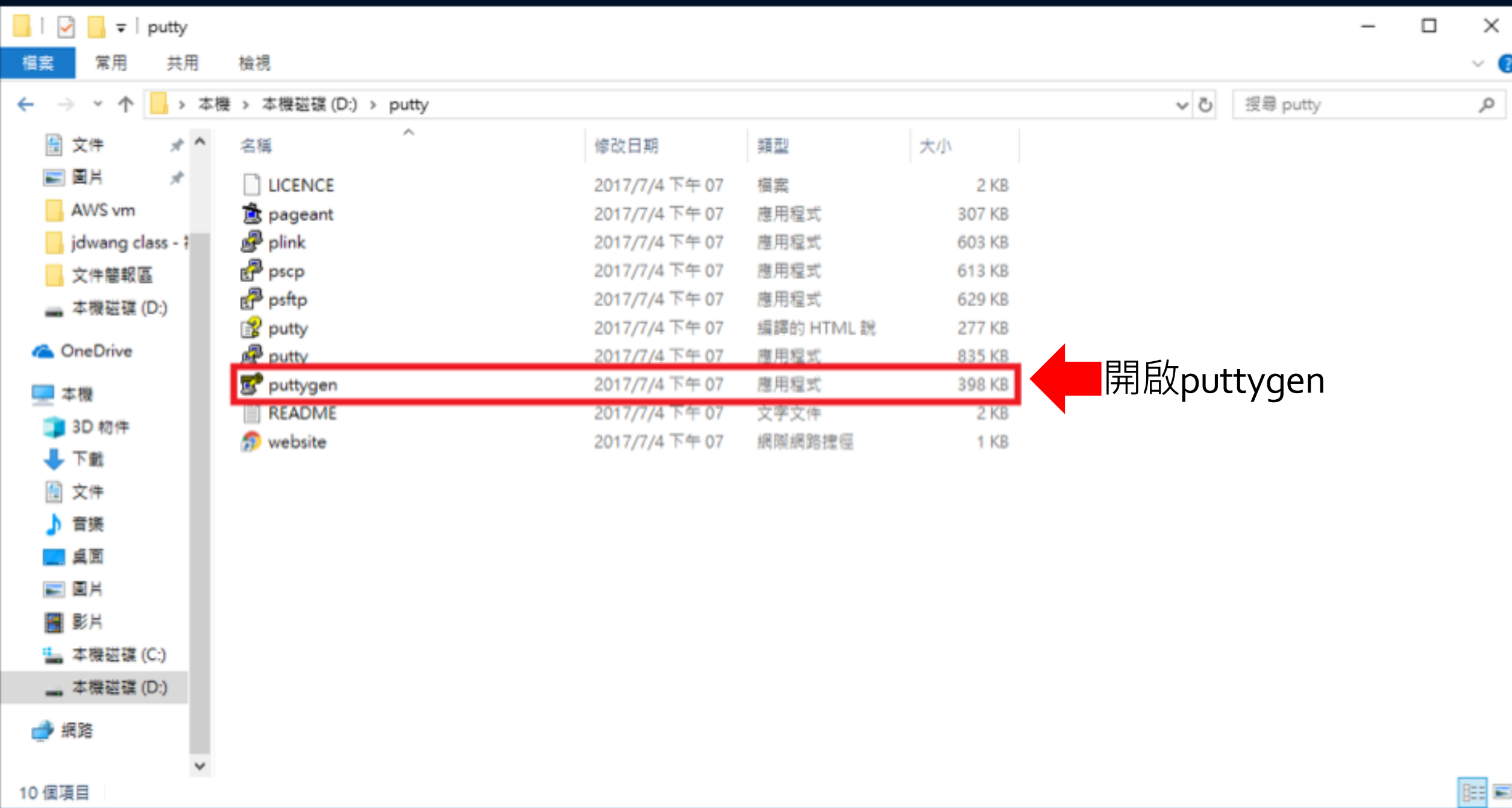
This feature requires 0KB on your hard drive.

Back

Install

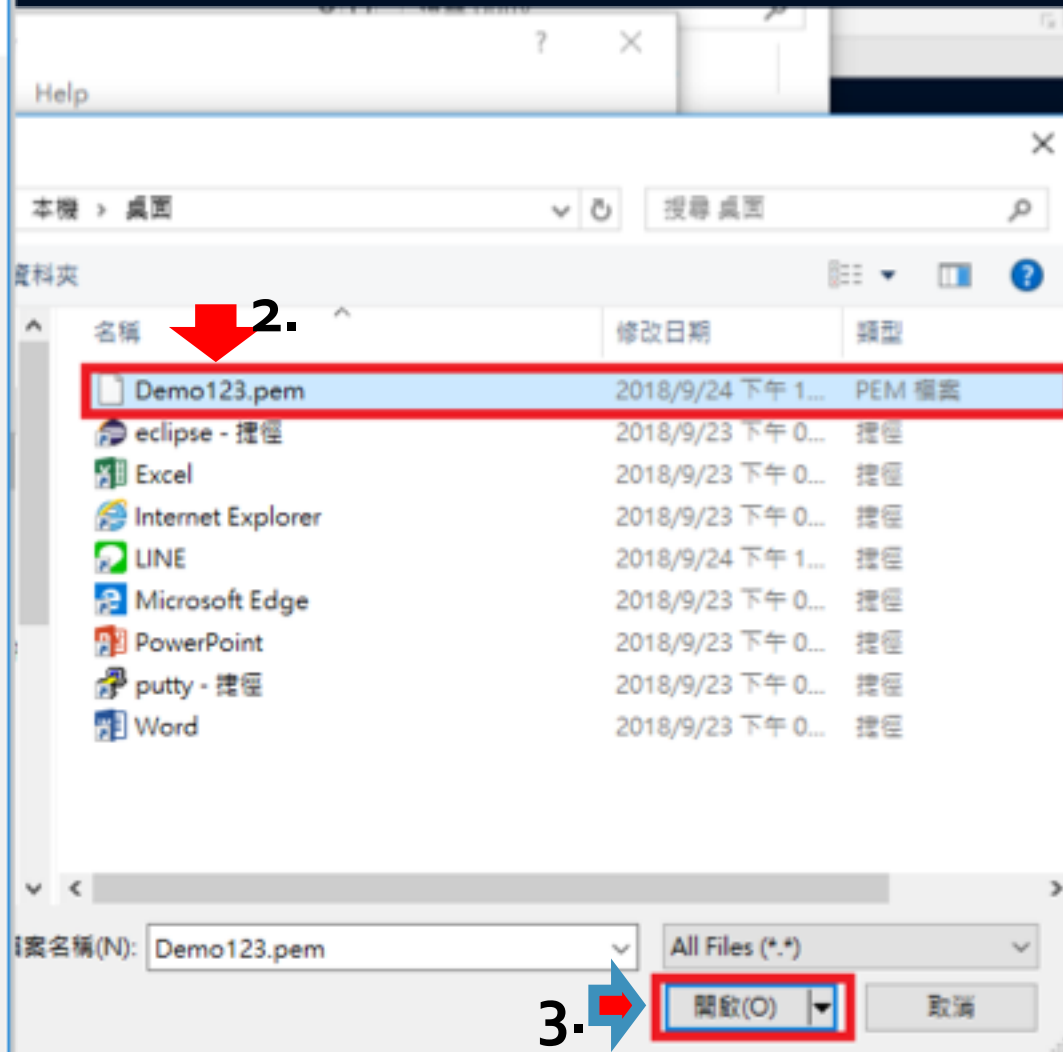
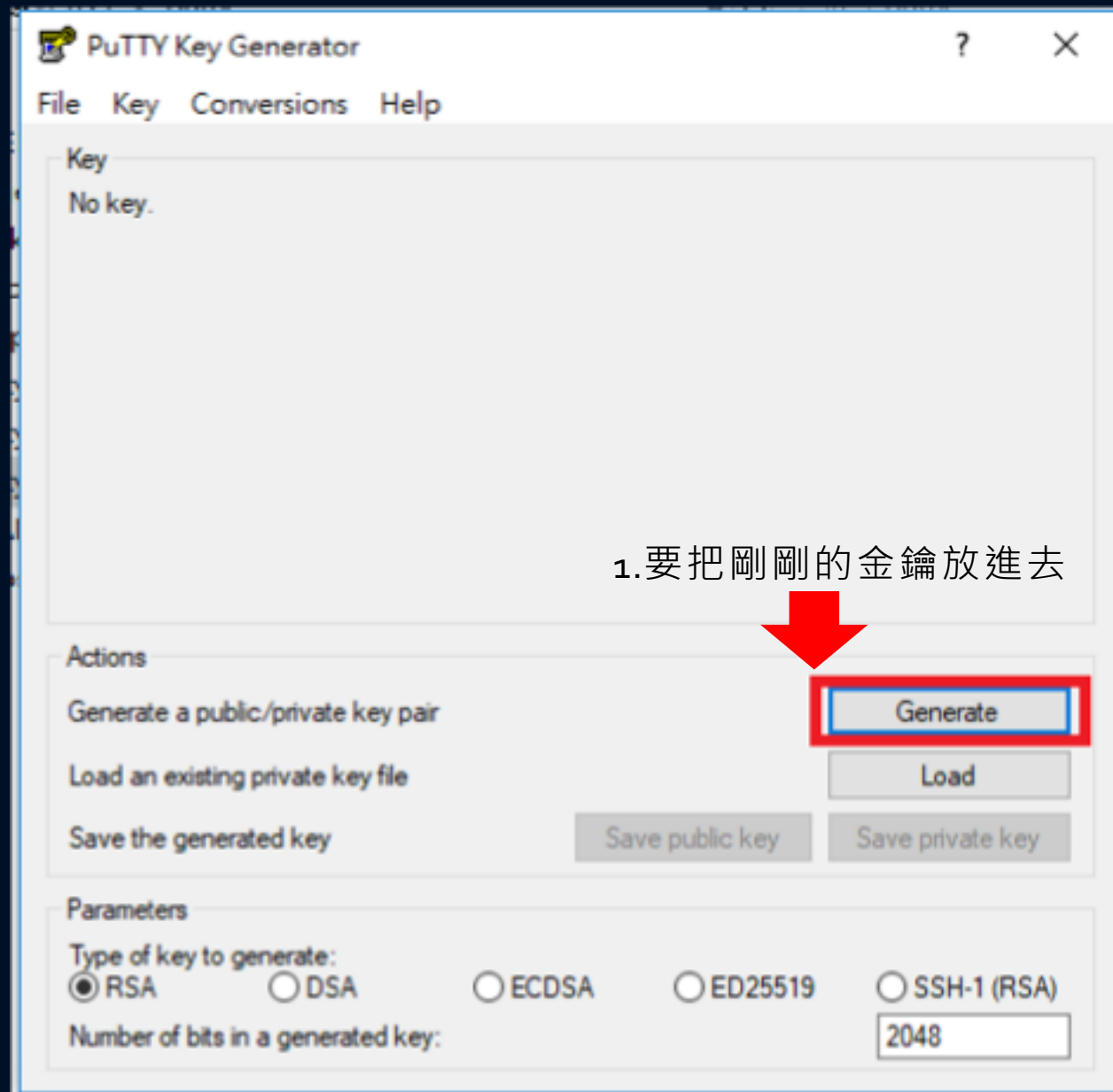
Cancel

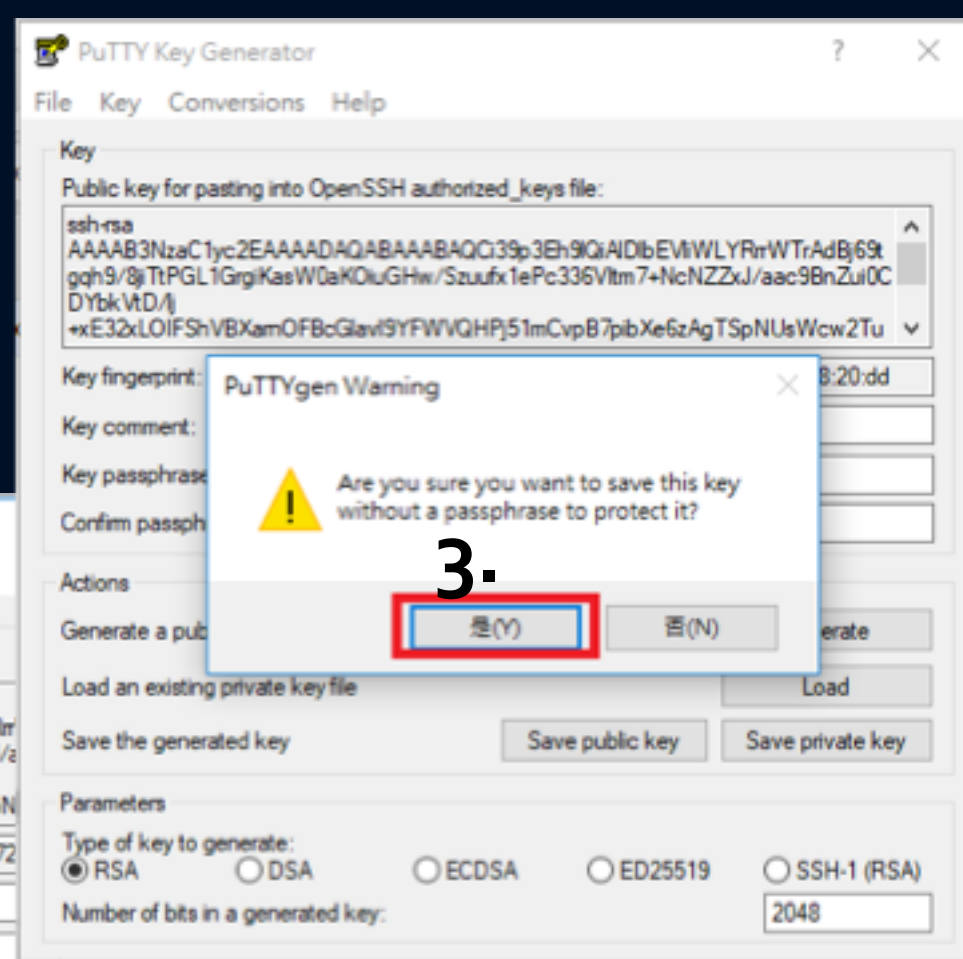
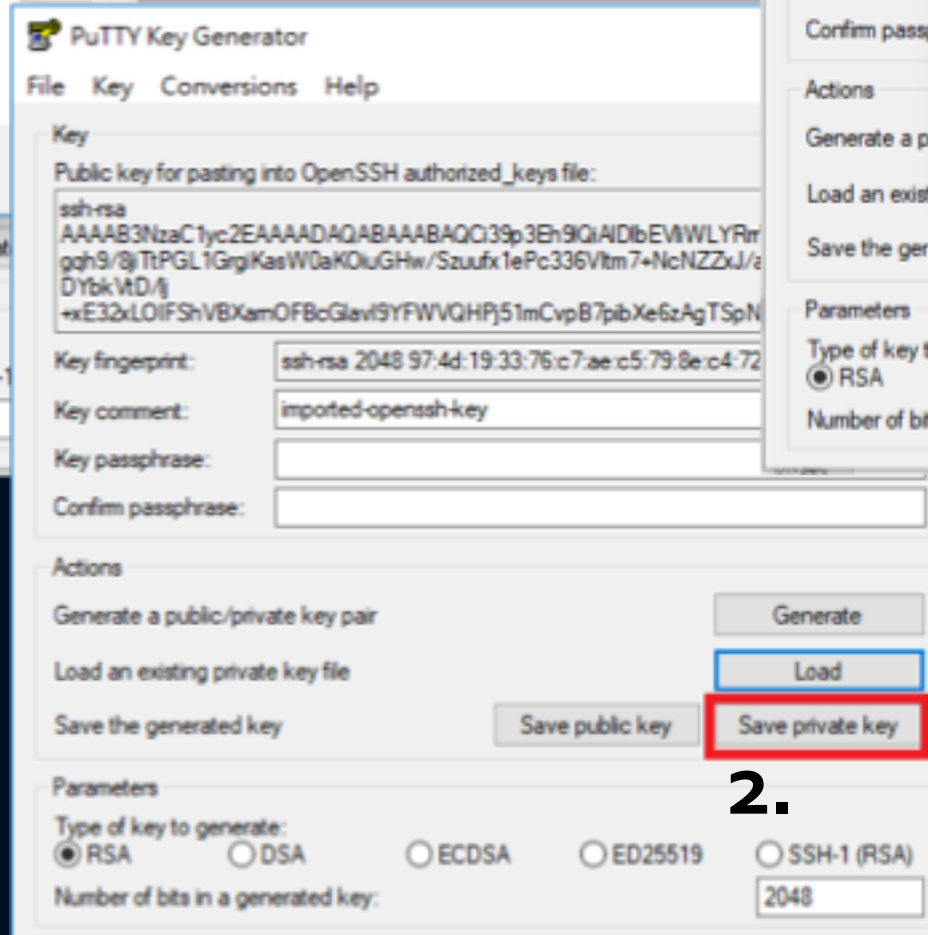
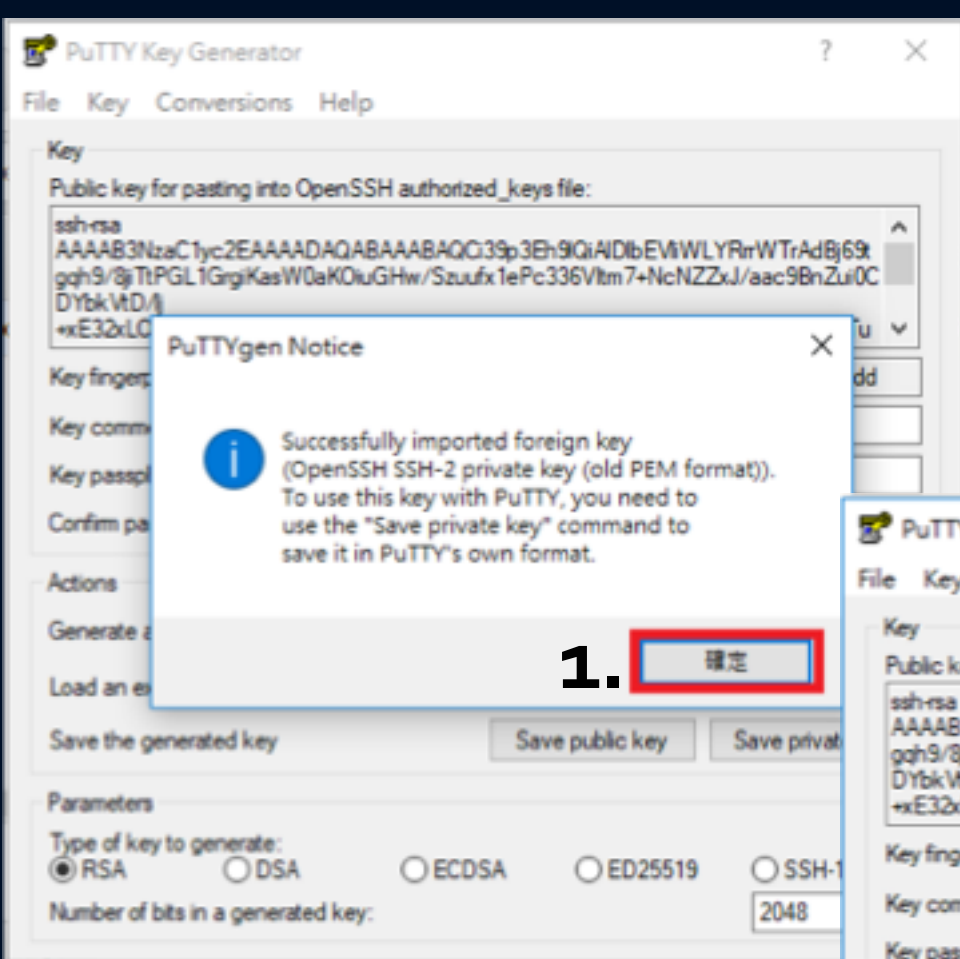
10 個項目 已選取 1 個項目 2.90 MB



名稱	修改日期	類型	大小
LICENCE	2017/7/4 下午 07	檔案	2 KB
pageant	2017/7/4 下午 07	應用程式	307 KB
plink	2017/7/4 下午 07	應用程式	603 KB
pscp	2017/7/4 下午 07	應用程式	613 KB
psftp	2017/7/4 下午 07	應用程式	629 KB
putty	2017/7/4 下午 07	編譯的 HTML 說	277 KB
putty	2017/7/4 下午 07	應用程式	835 KB
puttygen	2017/7/4 下午 07	應用程式	398 KB
README	2017/7/4 下午 07	文字文件	2 KB
website	2017/7/4 下午 07	網際網路捷徑	1 KB

← 開啟puttygen





Save private key as:

< > ↑ > 本機 > 桌面 搜尋 桌面

組合管理 ▾

新增資料夾

≡ ▾

?

本機

3D 物件

下載

文件

音樂

桌面

圖片

影片

本機磁碟 (C:)

本機磁碟 (D:)

名稱

修改日期

類型

沒有符合搜尋條件的項目

將它存放在桌面上或自己喜歡的地方，要記得放在哪裡

檔案名稱(N)

Demo123

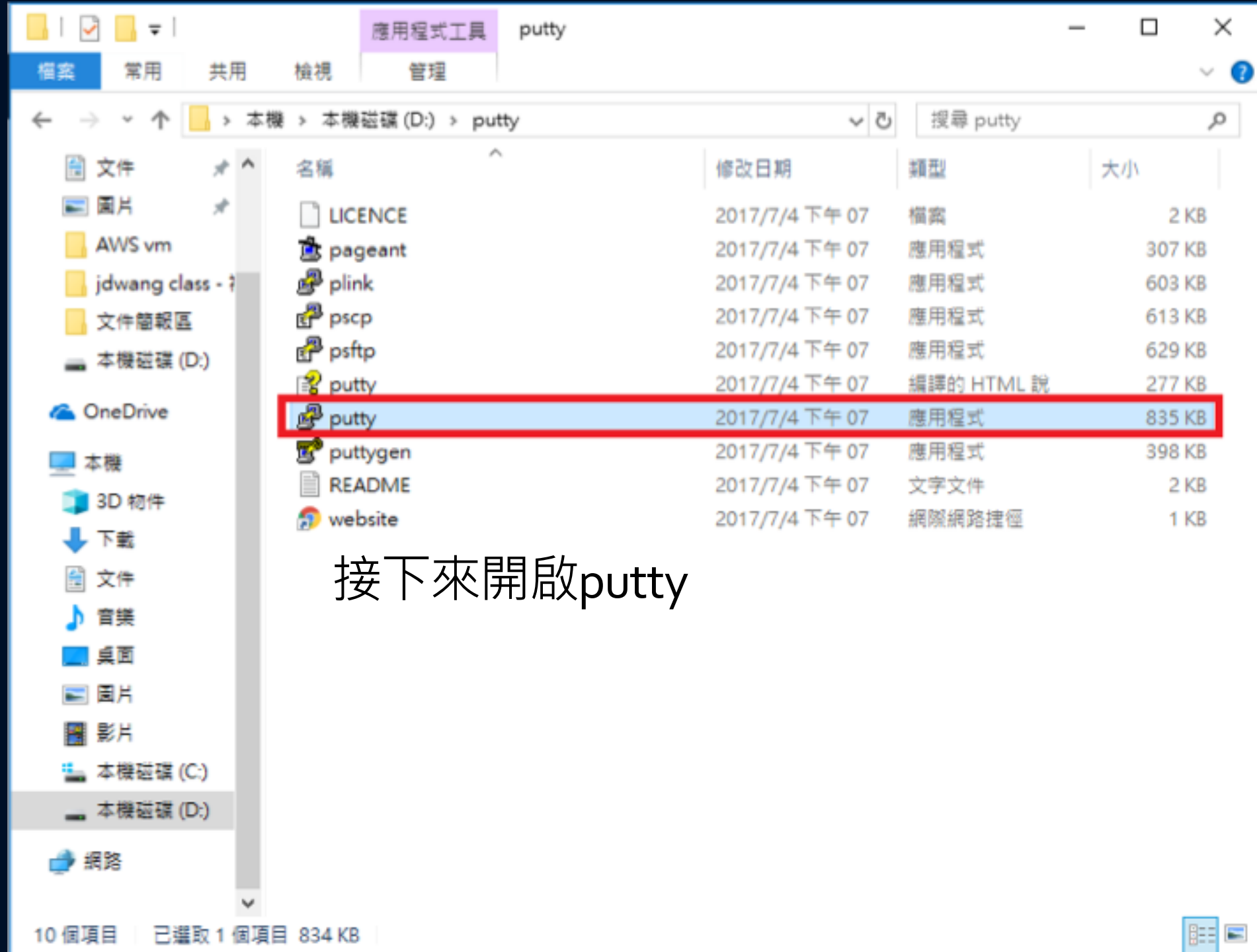
存檔類型(T):

PuTTY Private Key Files (*.ppk)

隱藏資料夾

存檔(S)

取消



接下來開啟putty



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回到aws頁面按下Connect



Filter by tags and attributes or search by keyword



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☐	Name ▾	Instance ID ▾	Instance Type ▾	Availability Zone ▾	Instance State ▾	Status Checks ▾	Alarm Status	Public DNS (IPv4) ▾	IPv4
☐	Demo123	i-03a4af33ccb8a054e	t2.micro	us-west-2a	running	2/2 checks ...	None	ec2-54-212-204-224.us...	54.2

Instance: i-03a4af33ccb8a054e (Demo123) Public DNS: ec2-54-212-204-224.us-west-2.compute.amazonaws.com

Description

Status Checks

Monitoring

Tags

Instance ID i-03a4af33ccb8a054e

Public DNS (IPv4) ec2-54-212-204-224.us-west-2.compute.amazonaws.com

aws 服務 資源組

EC2儀表板

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彈性塊商店

卷

快照

生命週期管理器

啟動實例

Filter by ta

名稱

Demo12

實例： i-03

描述 狀態

連接到您的實例

我想聯繫

☒ 獨立的SSH客戶端 ⓘ

☐ 直接從我的瀏覽器訪問Java SSH客戶端（需要Java） ⓘ

要訪問您的實例：

1. 打開SSH客戶端。（了解如何 [使用PuTTY進行連接](#)）
2. 找到您的私鑰文件（Demo123.pem）。該嚮導會自動檢測用於啟動實例的密鑰。
3. 您的密鑰不能公開查看SSH才能工作。如果需要，請使用此命令：

```
chmod 400 Demo123.pem
```

4. 使用其公共DNS連接到您的實例：

```
ec2-54-212-204-224.us-west-2.compute.amazonaws.com
```

例：

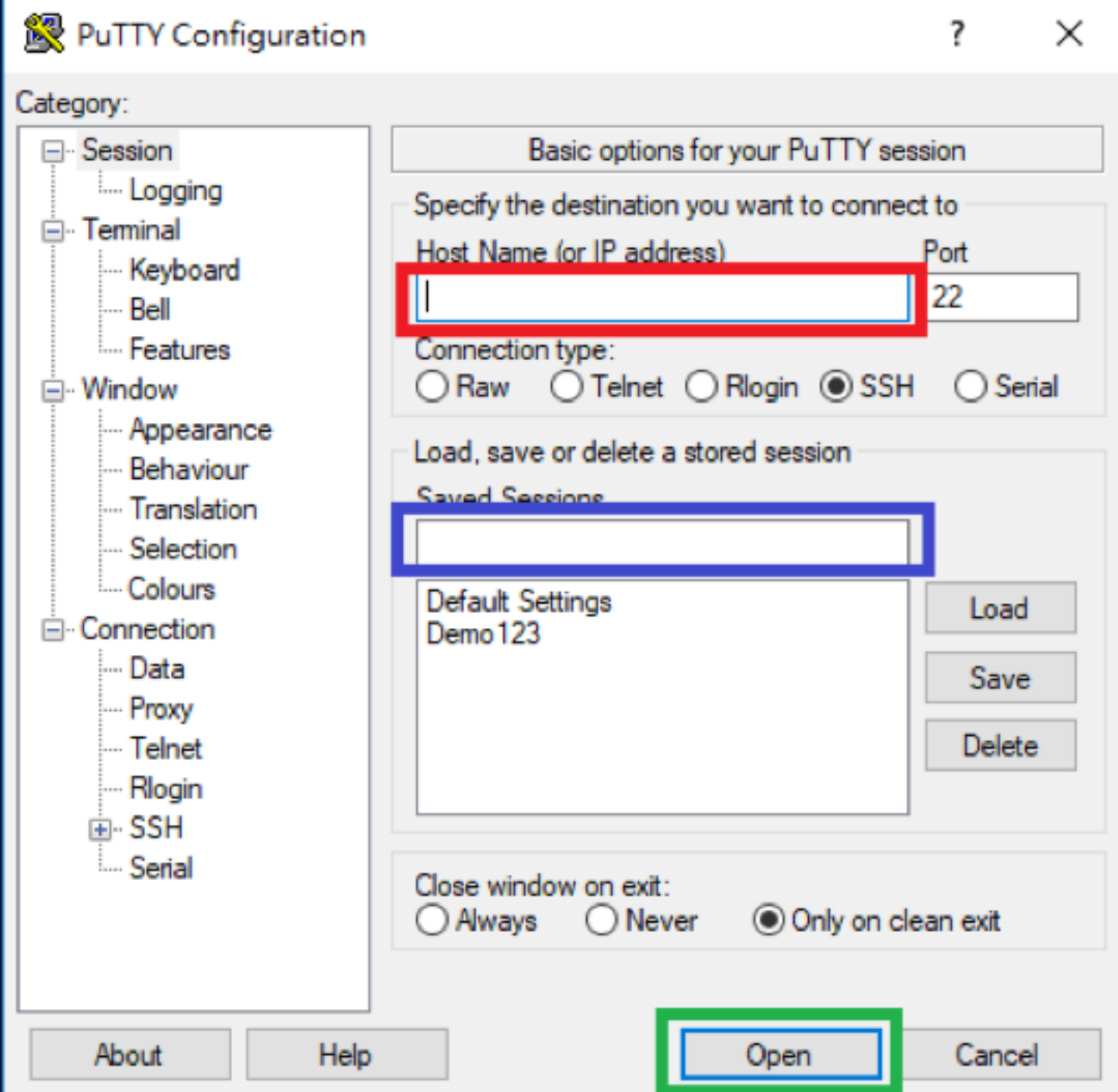
```
ssh -i "Demo123.pem" ubuntu@ec2-54-212-204-224.us-west-2.compute.amazonaws.com
```

請注意，在大多數情況下，上述用戶名是正確的，但請確保您已閱讀AMI使用說明，以確保AMI所有者未更改默認的AMI用戶名。

如果您需要任何幫助連接到您的實例，請參閱我們的 [連接文檔](#)。

關

把這段IP複製下來等等PuTTY登入需要



在紅色框框放入剛剛複製的IP

在藍色框框內輸入自己喜歡的名子儲存方便下次能快速開啟

先別急著按下綠色框框的 Open，還有要設定的

PuTTY Configuration

Category:

- Session
 - Logging
- Terminal
 - Keyboard
 - Bell
 - Features
- Window
 - Appearance
 - Behaviour
 - Translation
 - Selection
 - Colours
- Connection**
 - Data
 - Proxy
 - Telnet
 - Rlogin
 - SSH
 - Serial

Options controlling the connection

Sending of null packets to keep session active

Seconds between keepalives (0 to turn off)

Low-level TCP connection options

☒ Disable Nagle's algorithm (TCP_NODELAY option)

☒ Enable TCP keepalives (SO_KEEPALIVE option)

Internet protocol version

☒ Auto

☐ IPv4

☐ IPv6

Logical name of remote host

Logical name of remote host (e.g. for SSH key lookup):

About

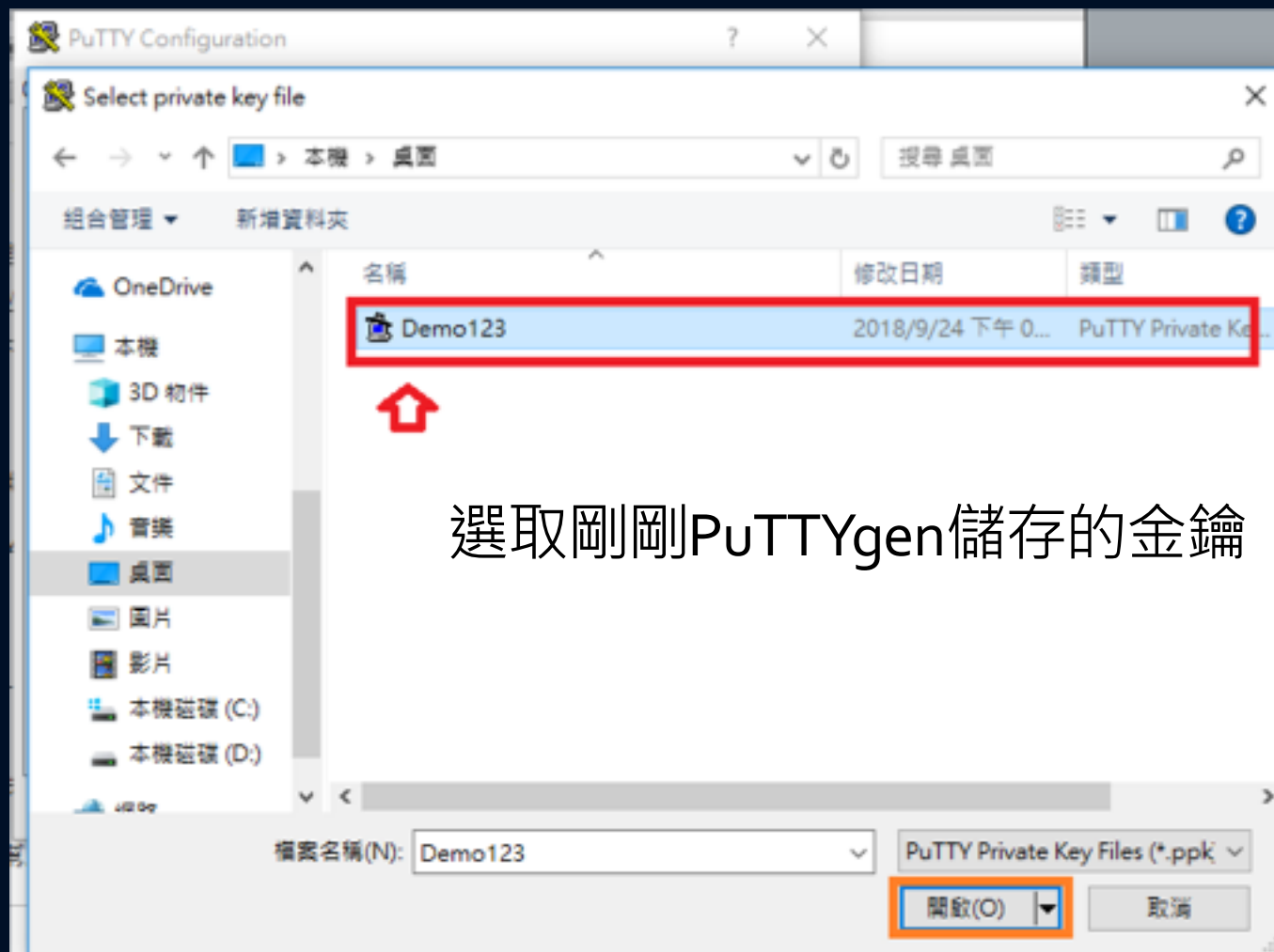
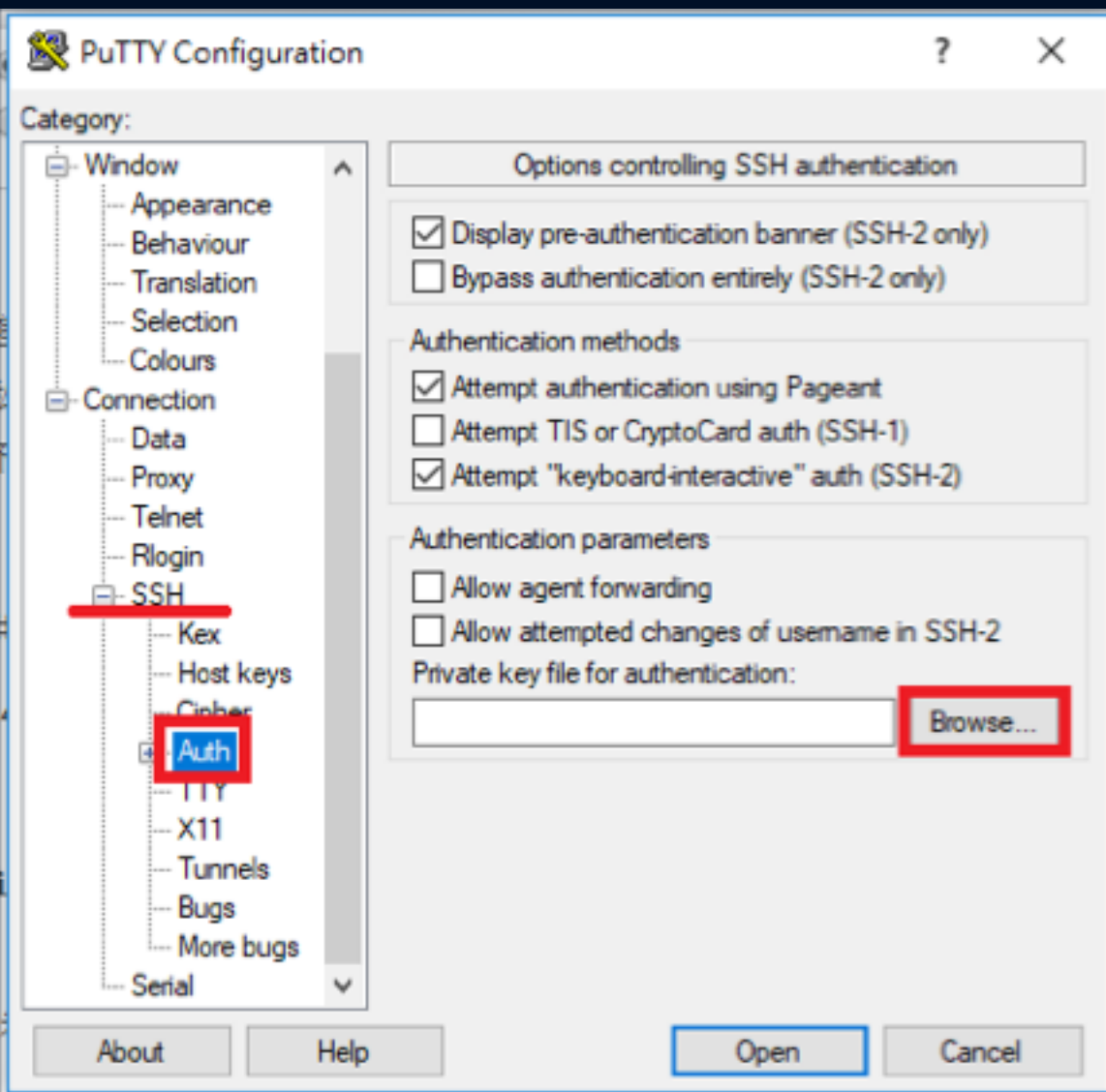
Help

Open

Cancel

點選Connection做設定

兩個都勾選



Category:

Session

Logging

Terminal

Keyboard

Bell

Features

Window

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Translation

Selection

Colours

Connection

Data

Proxy

Telnet

Rlogin

SSH

Kex

Host keys

Cipher

Auth

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address)

Port

ubuntu@ec2-54-212-204-224.us-west-2.

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Connection type:

☐ Raw☐ Telnet☐ Rlogin☒ SSH☐ Serial

Load, save or delete a stored session

Saved Sessions

Demo123

Default Settings

Demo123

Load

Save

Delete

Close window on exit:

☐ Always☐ Never☒ Only on clean exit

About

Help

Open

Cancel

開始執行

PuTTY Security Alert



The server's host key is not cached in the registry. You have no guarantee that the server is the computer you think it is.

The server's ssh-ed25519 key fingerprint is:

ssh-ed25519 256 7f:1e:70:e2:13:0e:64:15:95:d9:ff:49:e4:a7:00:78

If you trust this host, hit Yes to add the key to PuTTY's cache and carry on connecting.

If you want to carry on connecting just once, without adding the key to the cache, hit No.

If you do not trust this host, hit Cancel to abandon the connection.

按下是,繼續下方的動作

是(Y)

否(N)

取消

說明

* Want to make a highly secure kiosk, smart display or touchscreen?
Here's a step-by-step tutorial for a rainy weekend, or a startup.
- <https://bit.ly/secure-kiosk>

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-172-31-27-242:~\$ sudo apt update

更新作業系統

ubuntu@ip-172-31-27-242: ~



```
ubuntu@ip-172-31-27-242:~$ uname -a
```

```
Linux ip-172-31-27-242 4.15.0-1021-aws #21-Ubuntu SMP Tue Aug 28 10:23:07 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux
```

```
ubuntu@ip-172-31-27-242:~$
```

輸入 `uname -a` 檢查虛擬作業系統的版本