## References

* Microsoft Azure

<https://azure.microsoft.com/en-us/>

* Azure Portal

<https://portal.azure.com>

## Requirements

* Access to an Azure subscription (with subscription)
  + Apply NT$6,300 Azure account for free

<https://azure.microsoft.com/en-us/free/>

* Download and install PuTTY Windows application

<https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>

## Goals

* Build an Ubuntu Virtual Machine (VM) for simulated device
* Connect to VM through SSH tool (PuTTY)

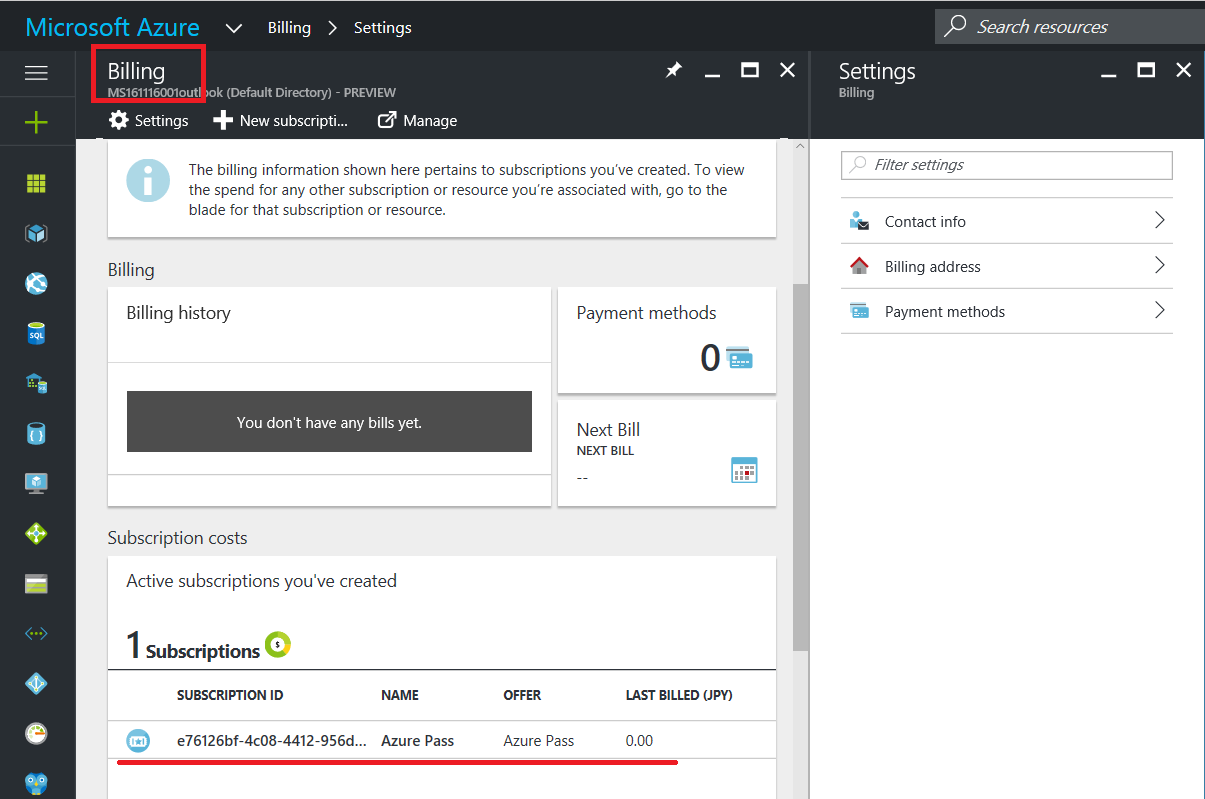
## Step 1: Create an Ubuntu VM on Azure

* Login and Check your azure subscription.
  + Login

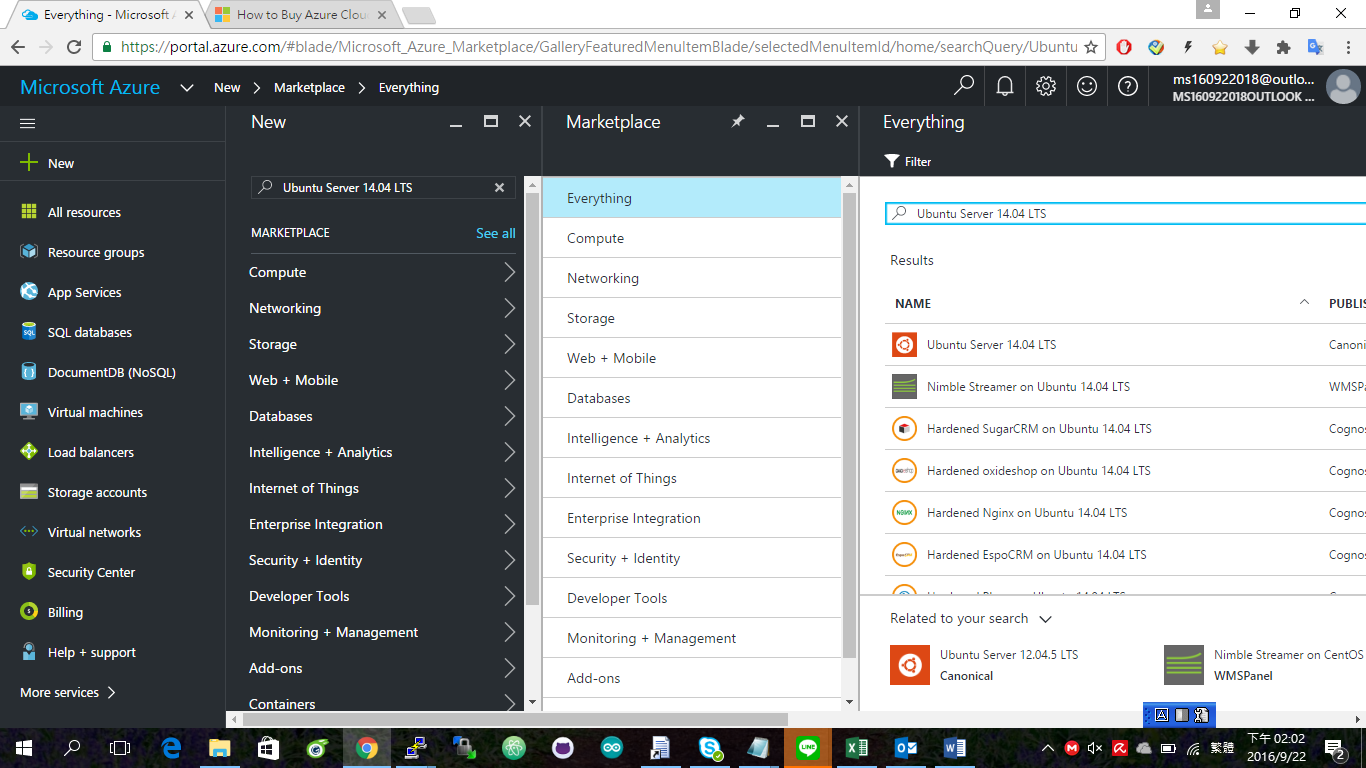
<https://portal.azure.com>

* + Confirm your azure subscription

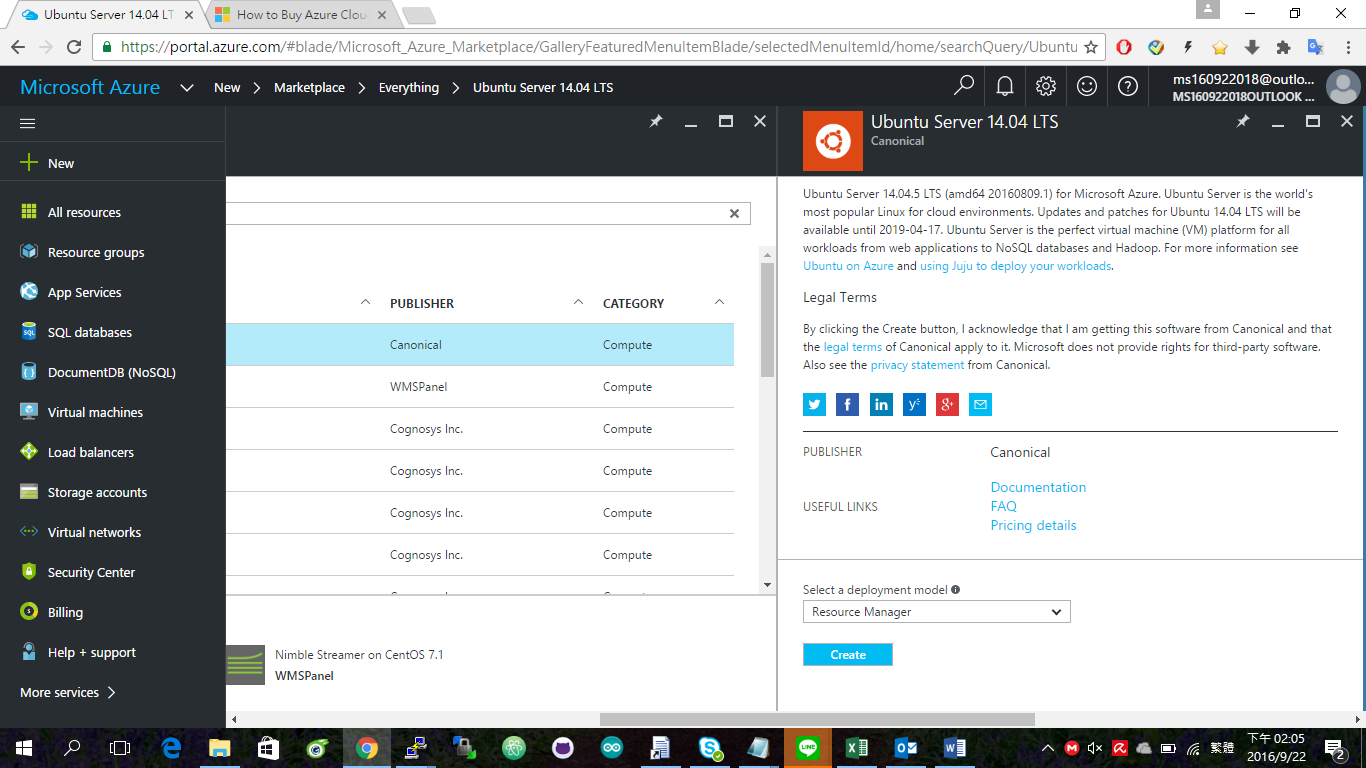
(Depends on your type of subscription account)



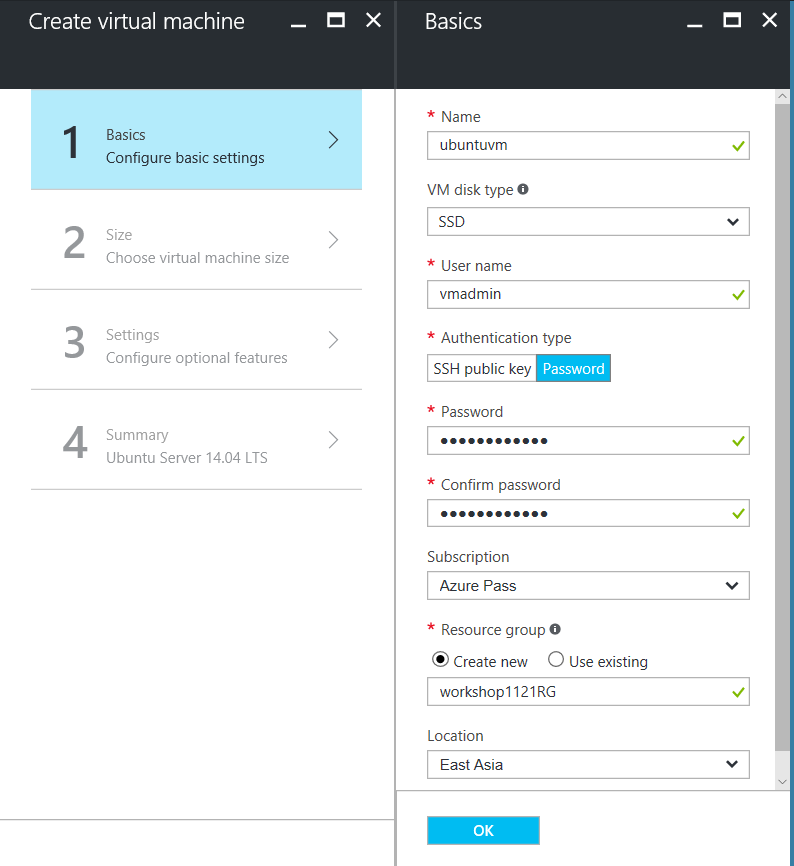
* Browse and search Ubuntu Virtual Machine, and select **Ubuntu Server 14.04 LTS**.



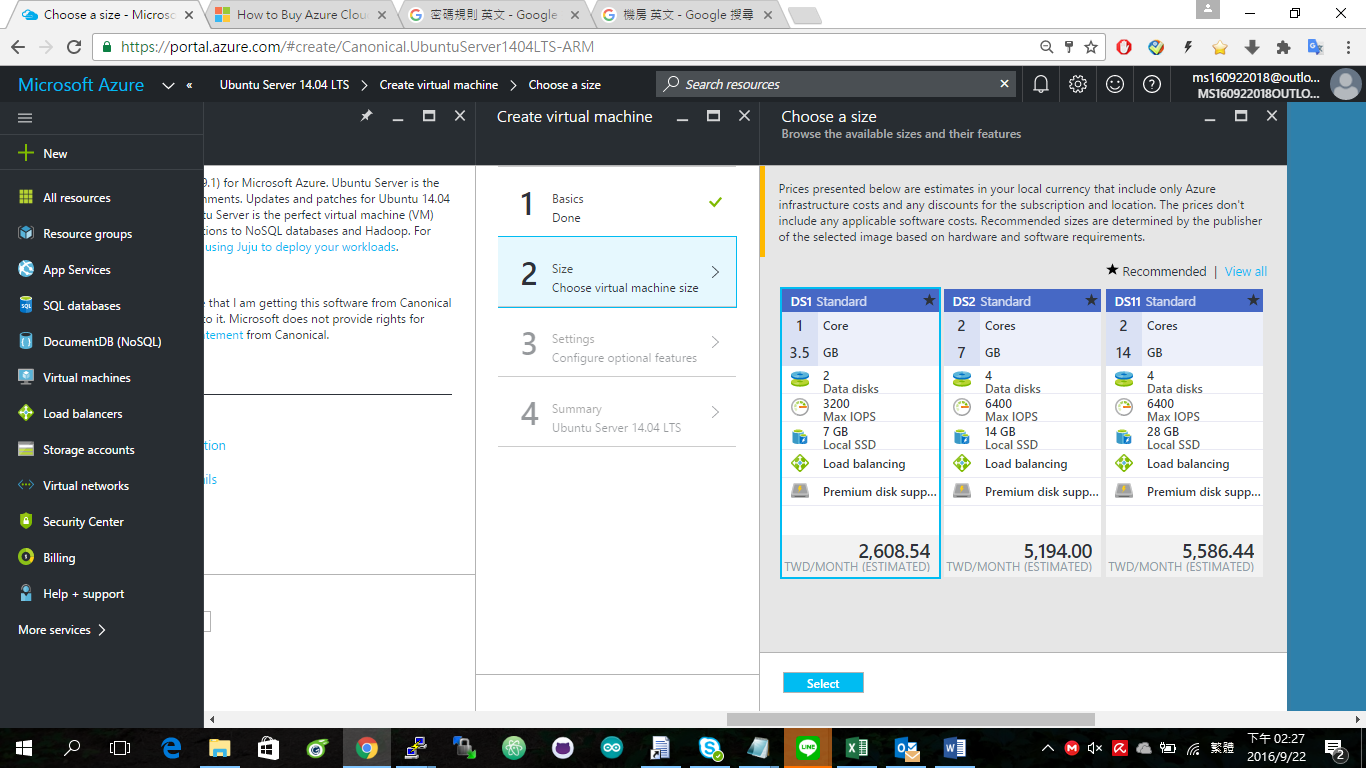
* + Select a deployment model
  + **Resource Manager**
  + **Create**。



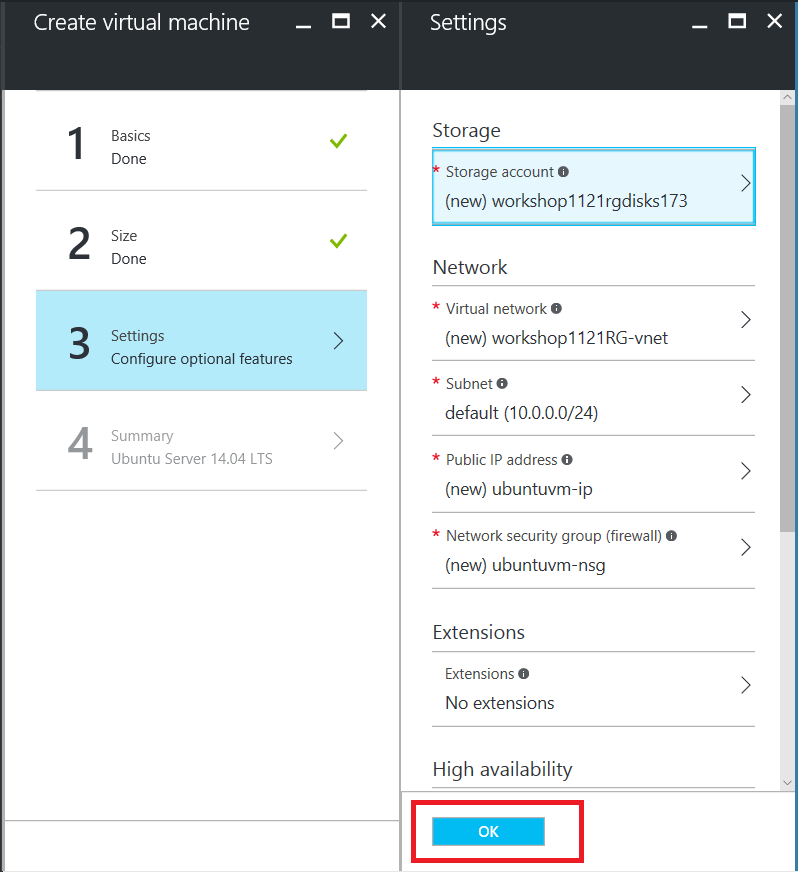
* + Input as the following.
* VM Name: **ubuntuvm**
* VM disk Type: **SSD**
* User name (your VM administer name): **vmadmin**
* Authentication type: **password**
* password: **demo1234567!** (for example)
* Subscription: Select your account
* Resource group: Select **Create** **New**, and named as **workshop1121RG** (for example)。
* Location (where your server located): **East Asia**
* Click **OK**



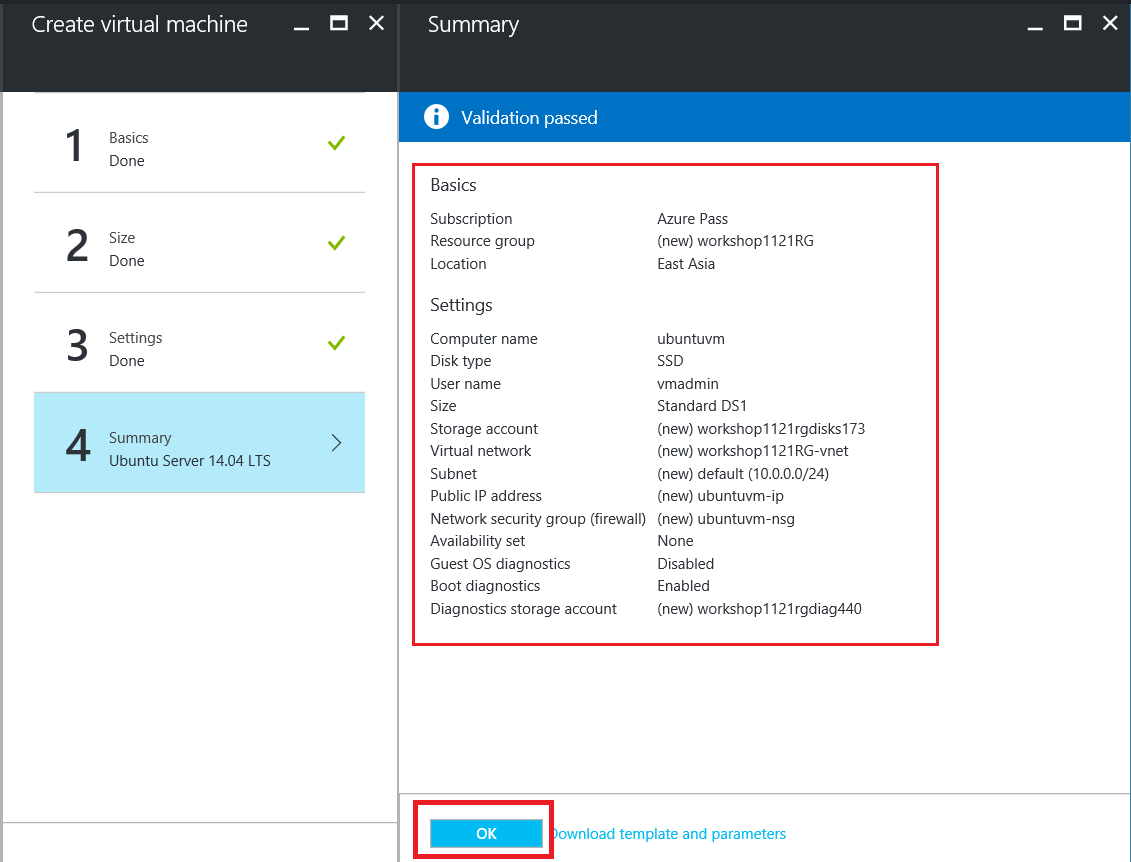
* Choose VM size, Select **DS1 standard**.



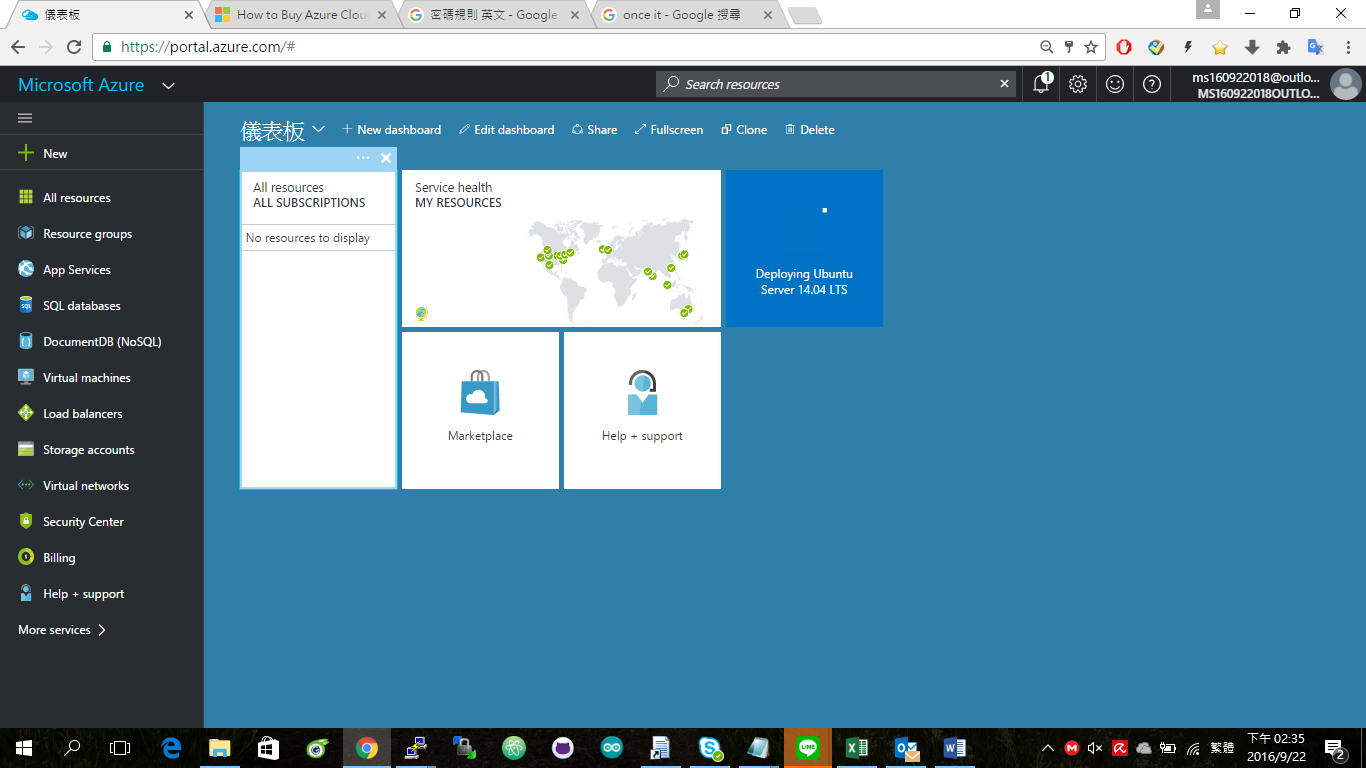
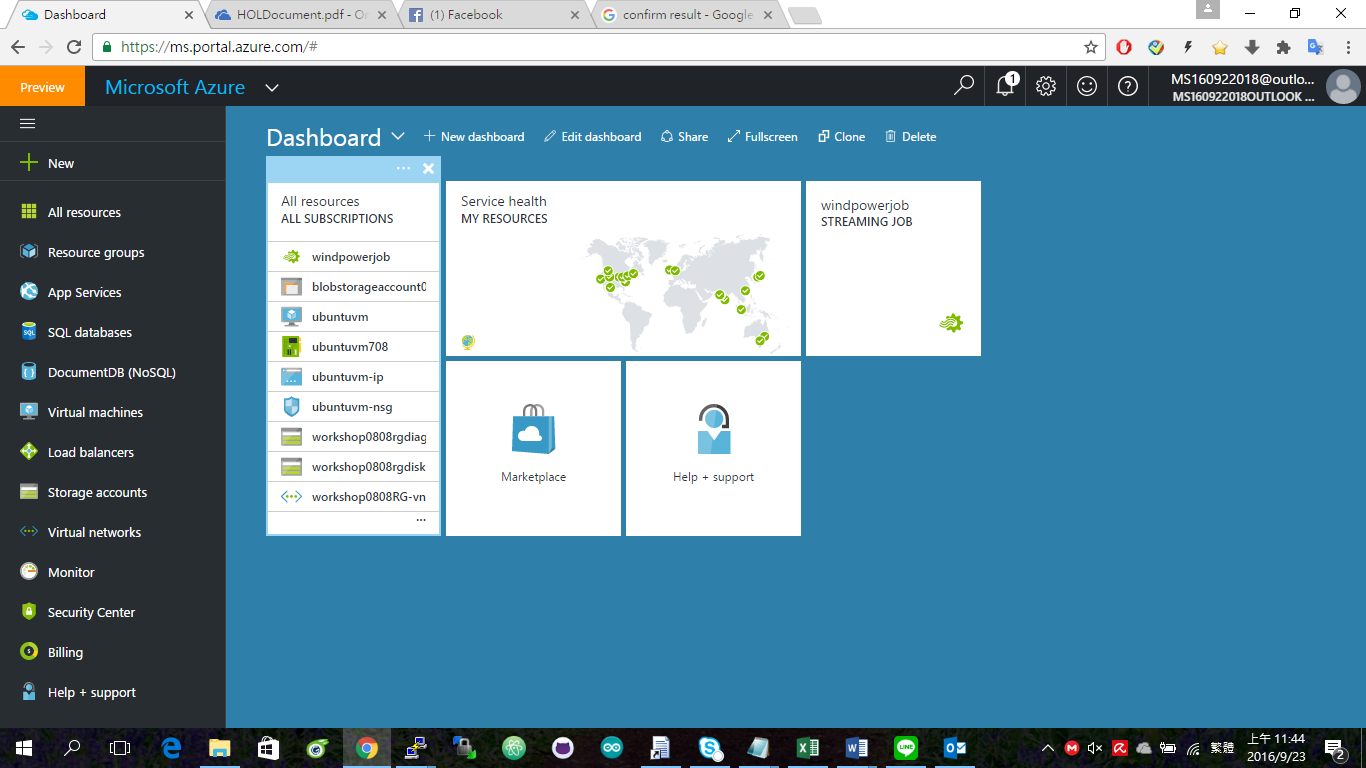
* Settings - All items will be generated automatically, **use the default settings**.

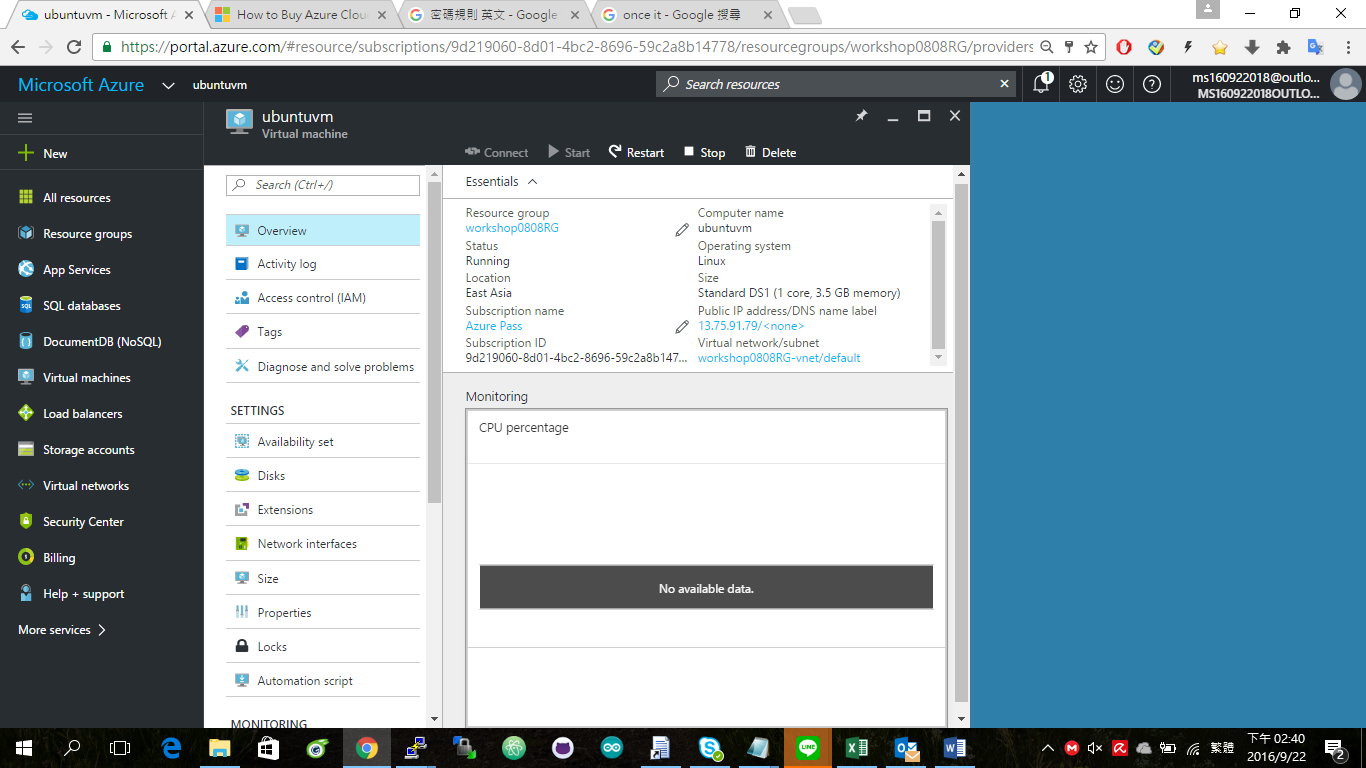


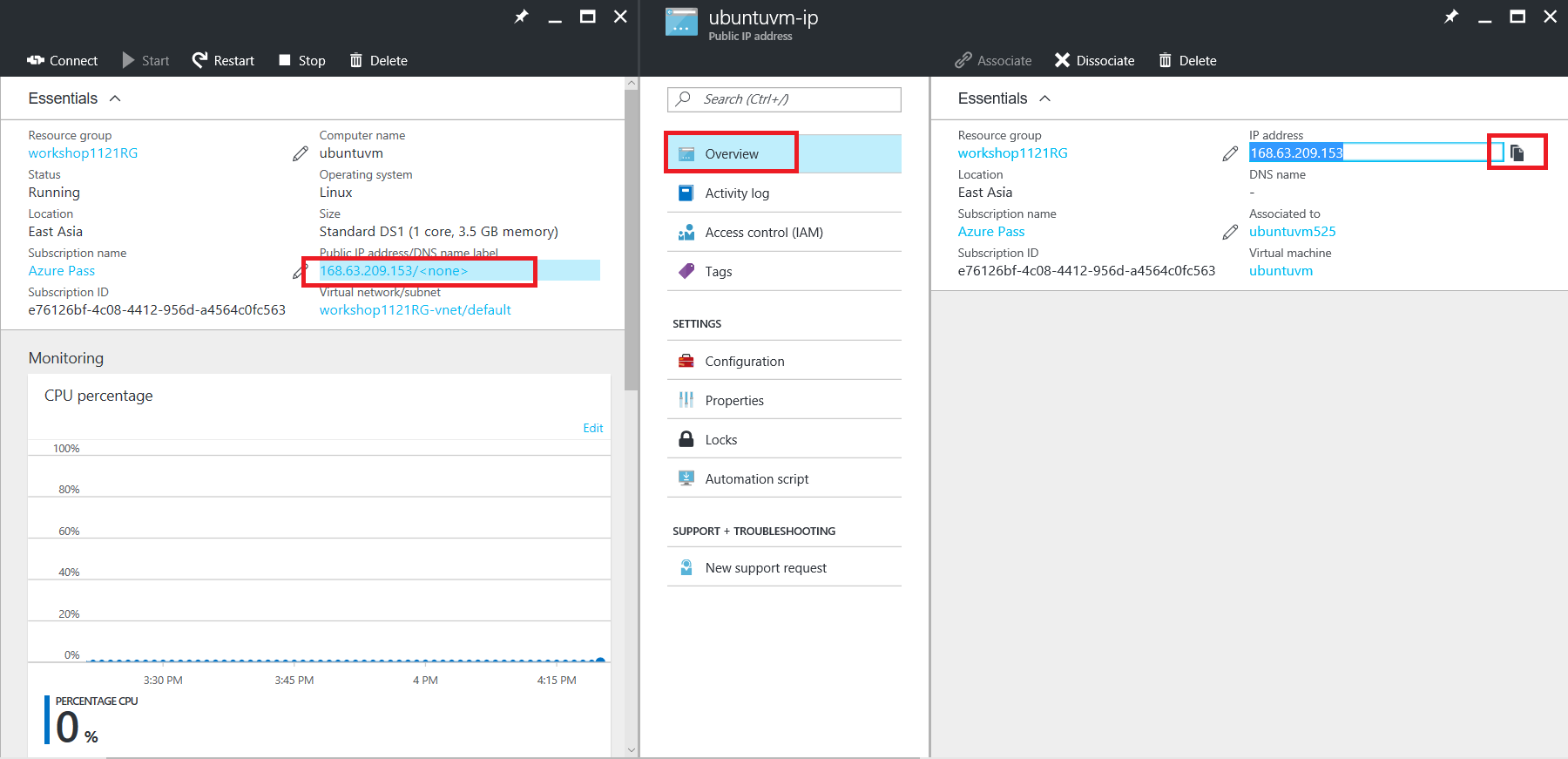
* Summary - Verify the details, and click **OK**.



* Deploying VM may takes few minutes, you can view VM resource once it completed.

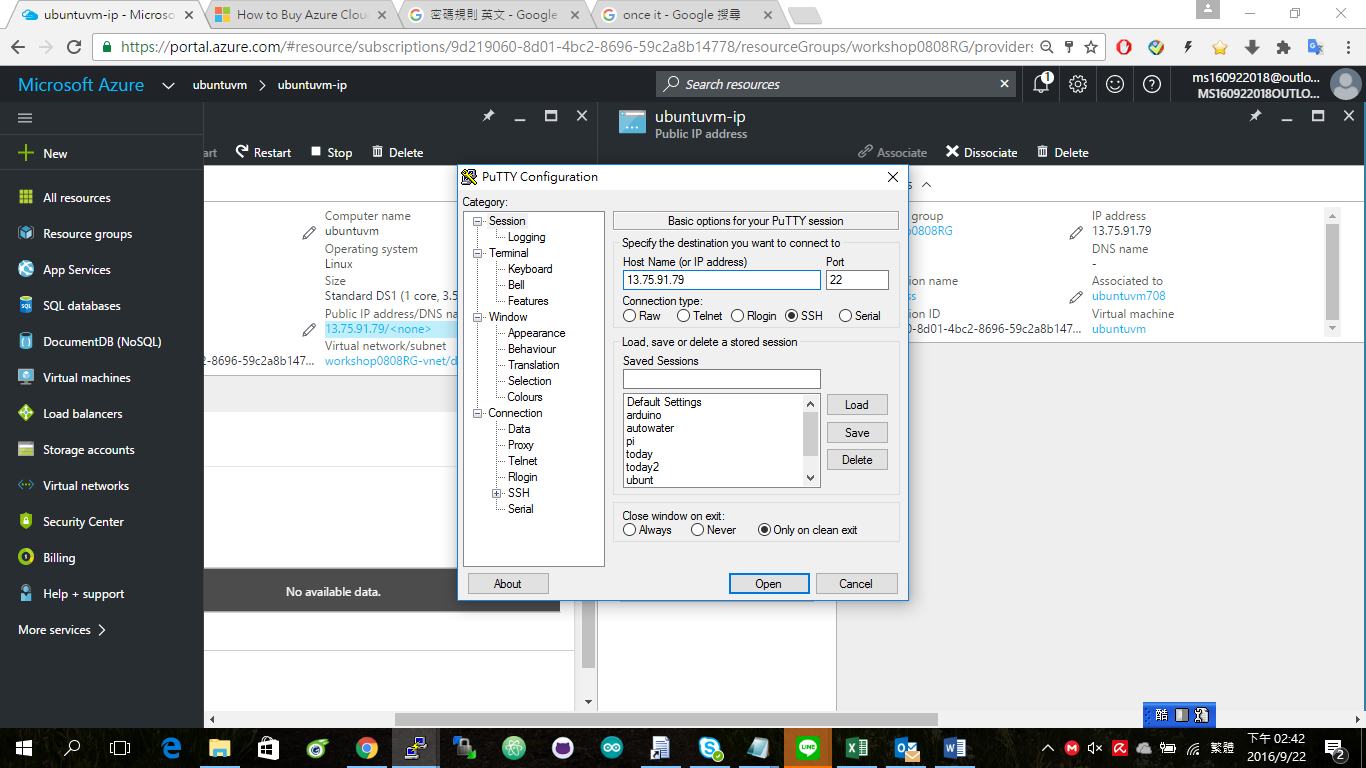


* Find your VM in your resource group.
* Get IP address (click to copy)

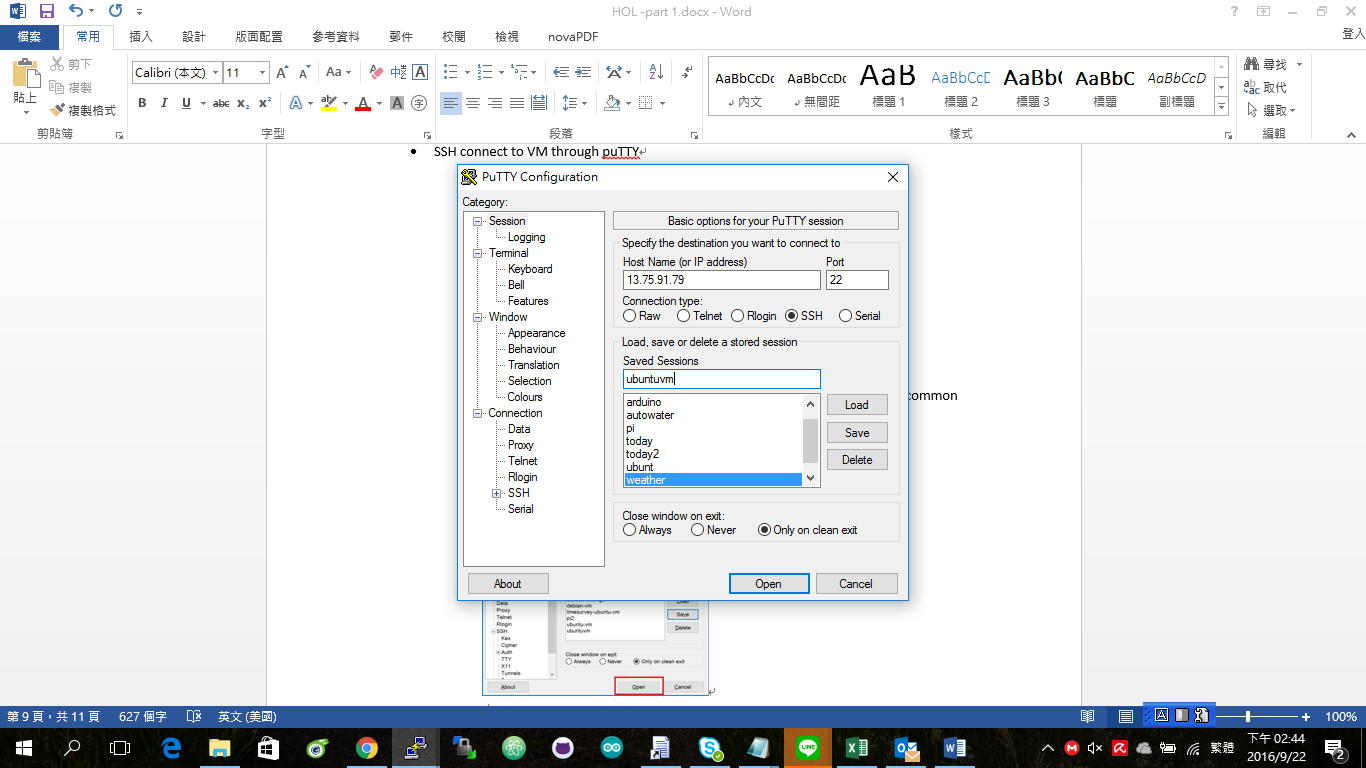


## Step 2: SSH connect to Ubuntu VM through PuTTY

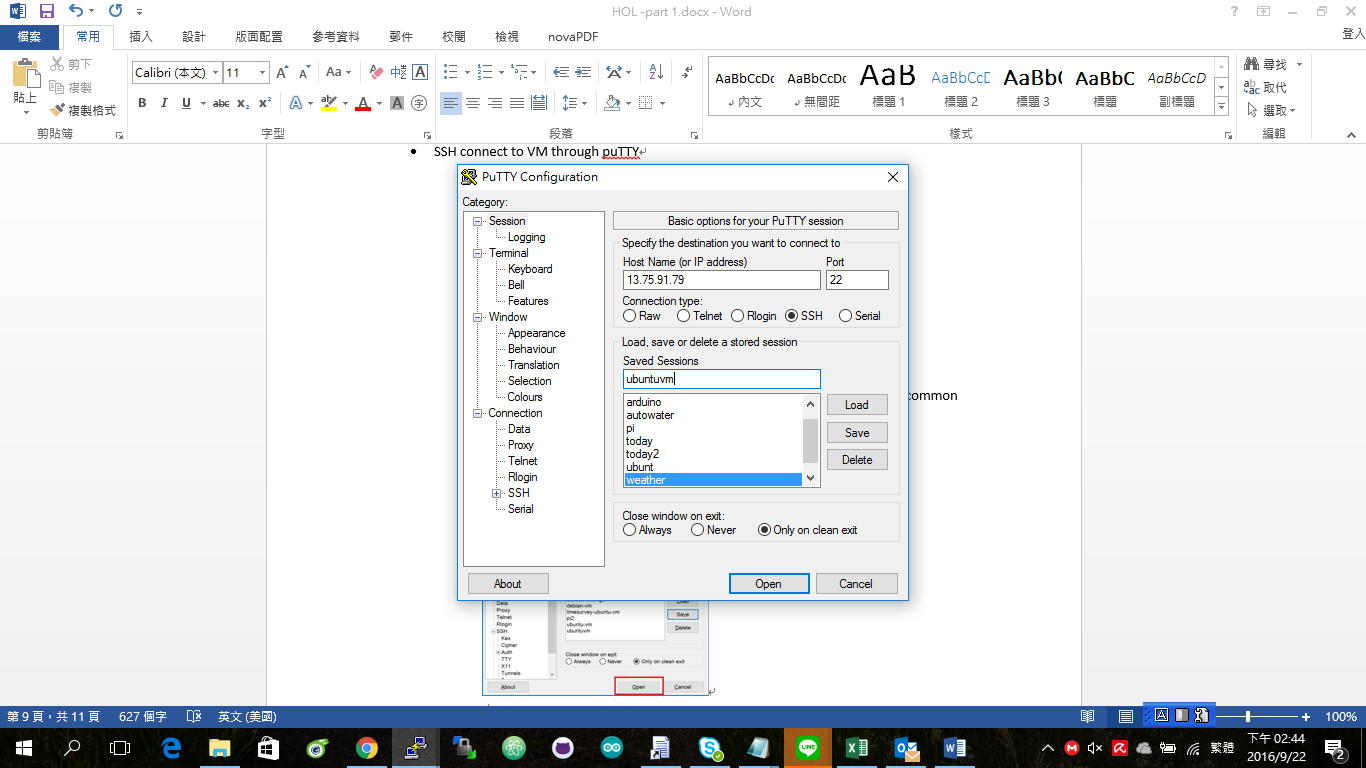
* Input the **IP** and select **Port** to 22



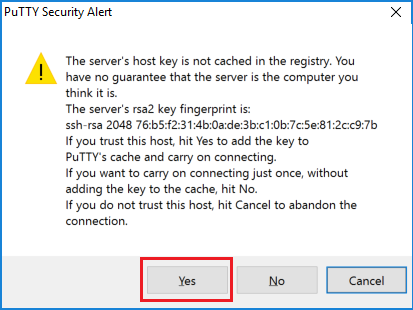
* Save a name (for example: **ubuntuvm**) in Saved Sessions for common use.



* **Open** connection

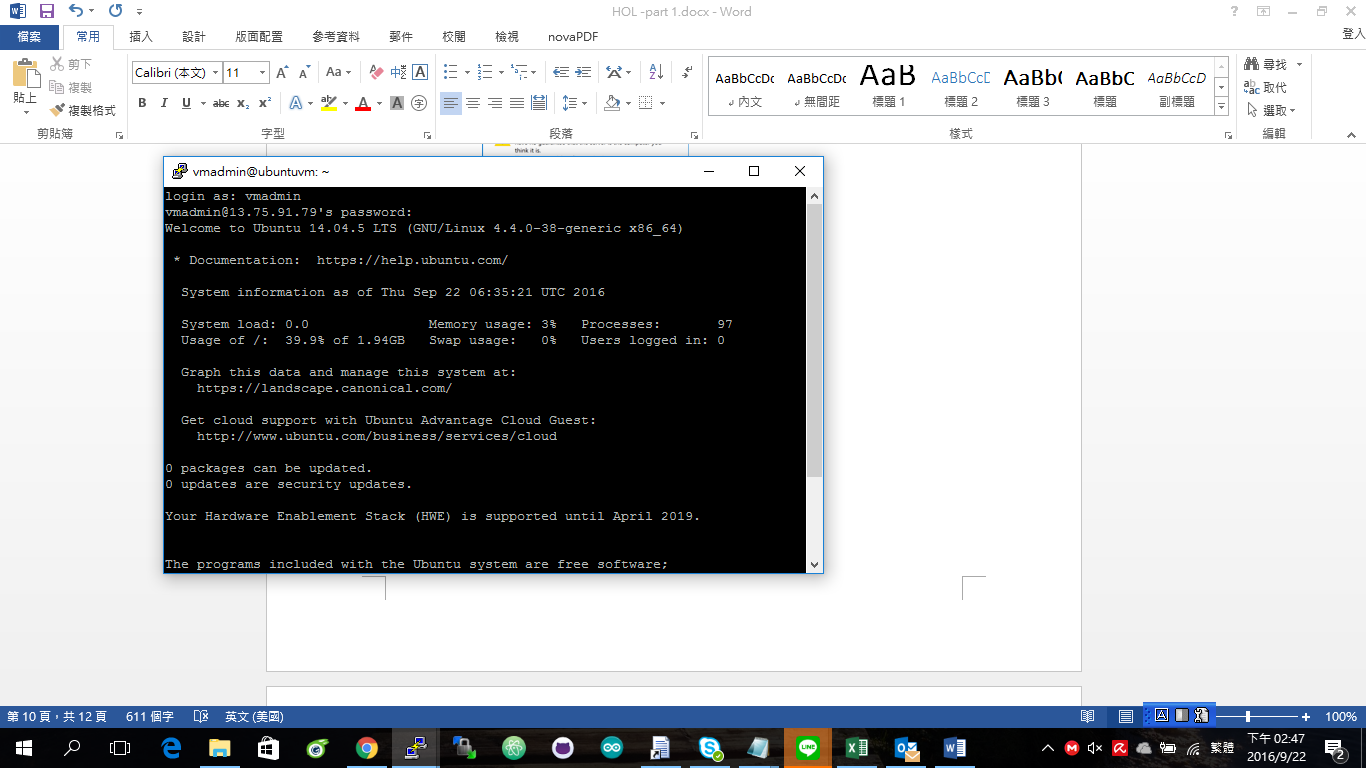


* PuTTY Security Alert, click **Yes** to allow access.

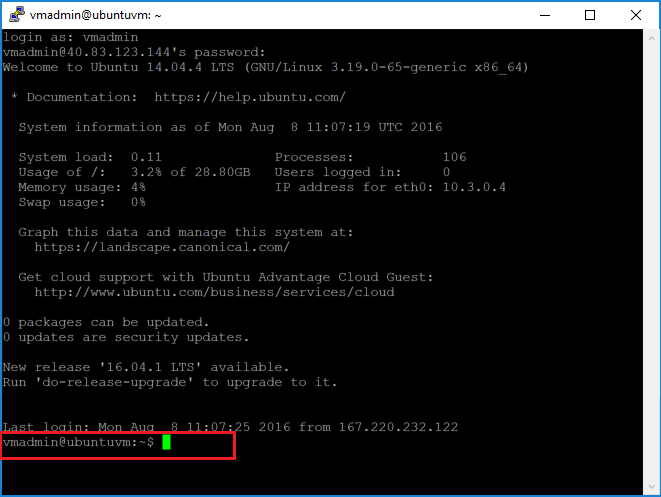


* Input the administer **name** and **password** of VM

(For example. vmadmin/demo1234567!)



* Login successfully



* *The HOL 1 has been completed. Now you can access the Ubuntu VM through the PuTTY.*

## Q & A

* **What do I need in order to sign up for a free account？**

All you need is a phone number, a credit card, and a Microsoft Account username (formerly Windows Live ID).

* **Why do I need to provide a credit card and phone number？**

One of the ways we keep prices low is to verify that account holders are real people, not bots or anonymous trouble-makers. We use the phone number and credit card for identity verification. We don’t charge your credit card anything, but you may see a $1 verification hold on your credit card account, which is removed within 3 to 5 days.

* **What happens once I use all of my $200 free credit？**

We will notify you so you can decide if you want to transition to a Pay-As-You-Go Azure subscription. If you do, great. You start paying for the services you want to use. If not, don’t worry, you won’t be billed anything, but you will no longer be able to access services.

* **What happens with the services I created after 30 days？**

The $200 credit expires after 30 days, and you can either let any services you’ve deployed be decommissioned (and you won’t have access to them anymore) or transition to a Pay-As-You-Go Azure subscription, paying only for what you use moving forward.

* And More… <https://azure.microsoft.com/en-us/free/free-account-faq/>