



DEMO: Deploying and Connecting to a Linux Virtual machine via the Azure Portal

Author: Saurav Raghuvanshi

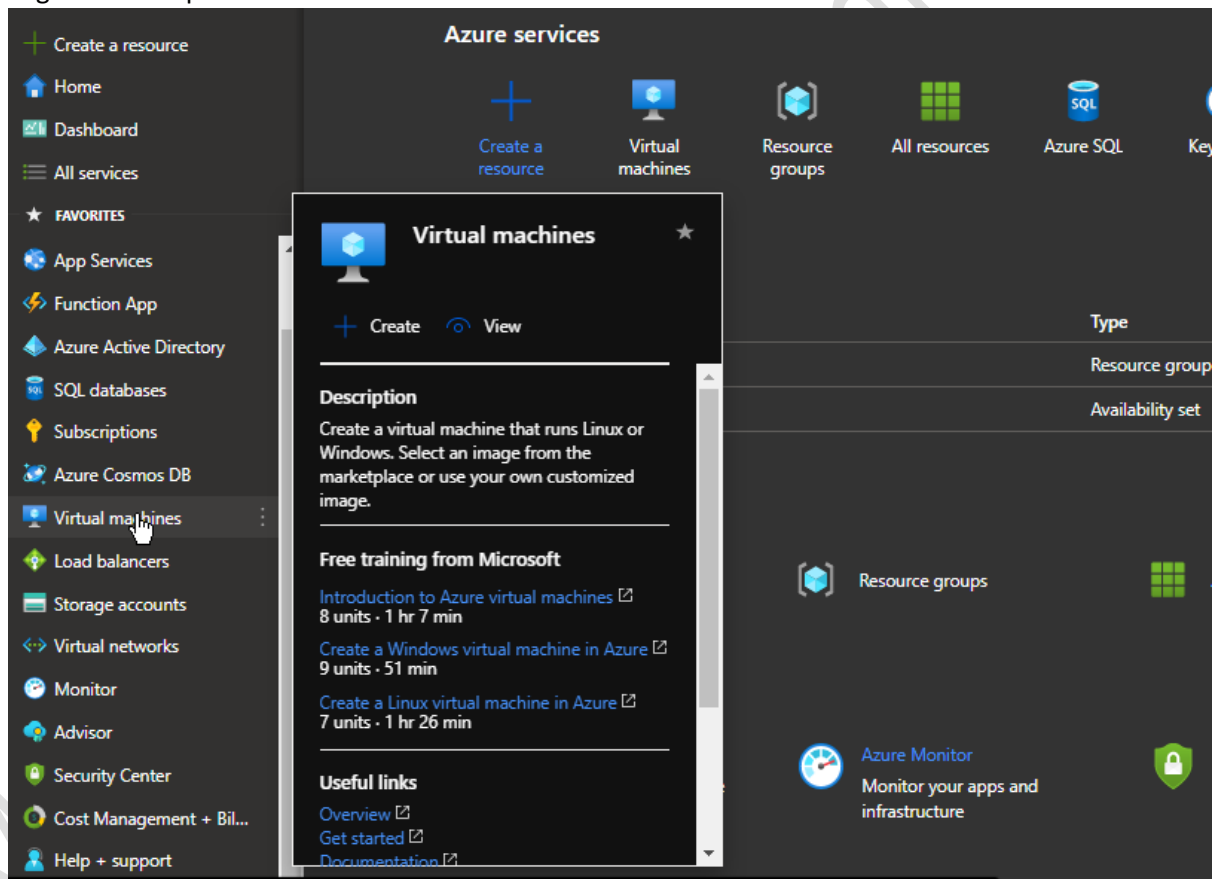
Aim: Deploying and Connecting to a Linux Virtual machine via the Azure Portal

Some Useful Link:

- Azure free Tier account creation: <https://azure.microsoft.com/en-us/free/>
- Azure Portal: <https://portal.azure.com/#home>
- Service Categories: <https://azure.microsoft.com/services/>
- Designing a Solution: <https://docs.microsoft.com/azure/architecture/>

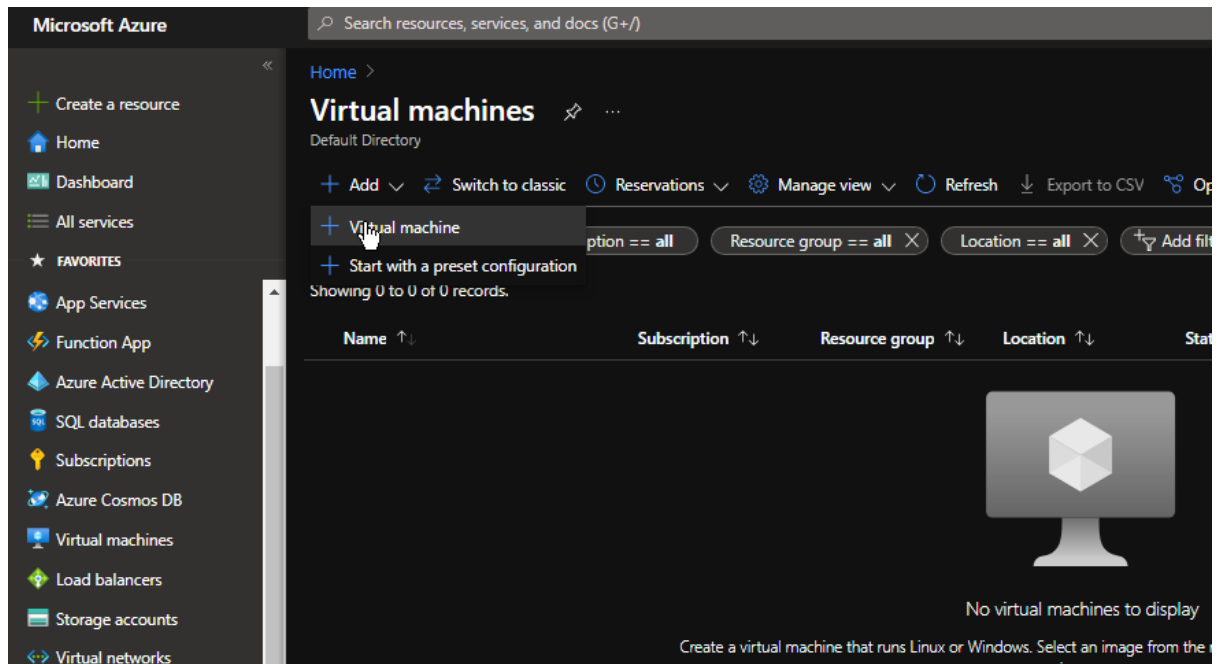
Instructions:

1. Login to Azure portal and then click on Virtual Machine

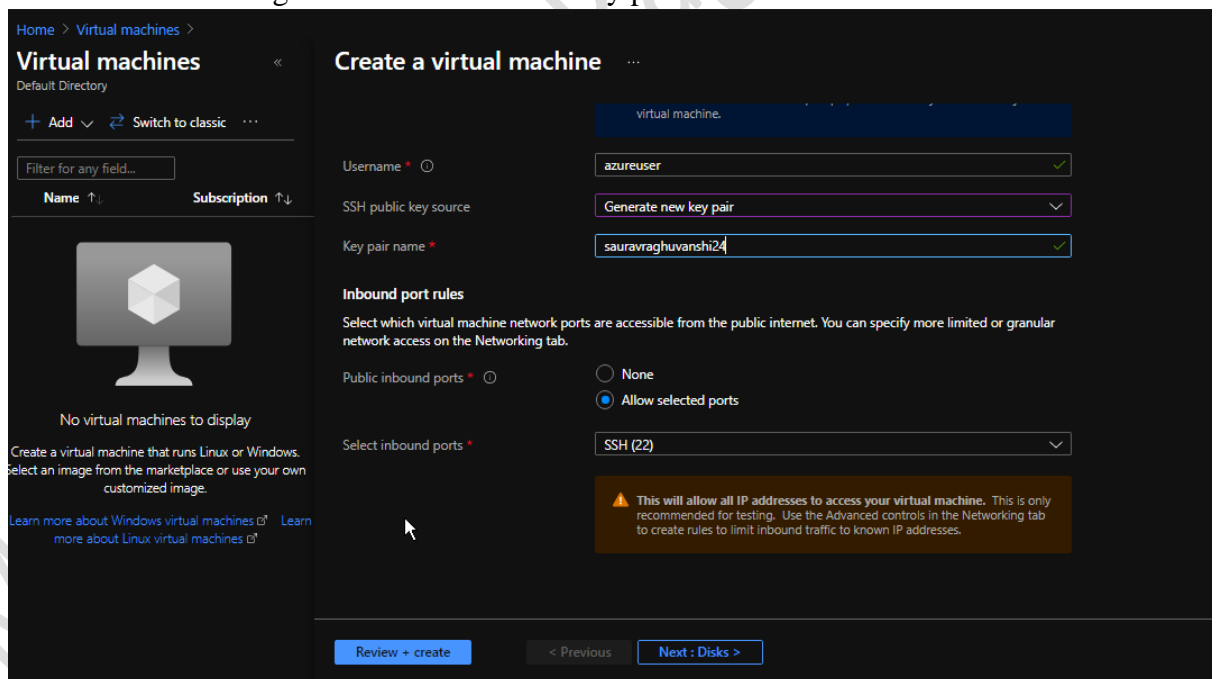


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2. Click on Add and then click on Virtual Machine



3. Select the resource group that we created in our last lab then give your VM a name, select image type i.e Ubuntu Server 20.04 LTS - Gen-1. In the authentication type select SSH and then give it a user name and key pair name. Then click next



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4. Here everything will be default so click on next

The screenshot shows the 'Create a virtual machine' page in the Azure portal. The left sidebar displays the 'Virtual machines' section with a '+ Add' button and a 'Switch to classic' link. The main content area is titled 'Create a virtual machine' and has tabs for 'Basics', 'Disks', 'Networking', 'Management', 'Advanced', 'Tags', and 'Review + create'. The 'Disks' tab is selected. It contains a description of Azure VM disks, 'Disk options' (OS disk type: Premium SSD, Encryption type: Default), and 'Data disks' (a table with columns LUN, Name, Size (GiB), Disk type, and Host caching). At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next : Networking >'. The 'Next : Networking >' button is highlighted.

5. Here also everything is default as Azure will create Network Interface, Subnet, and public IP address for us. So, just click on next

The screenshot shows the 'Create a virtual machine' page in the Azure portal, with the 'Networking' tab selected. The left sidebar is the same as in the previous screenshot. The main content area is titled 'Create a virtual machine' and has tabs for 'Basics', 'Disks', 'Networking', 'Management', 'Advanced', 'Tags', and 'Review + create'. The 'Networking' tab is selected. It contains a description of network connectivity, 'Network interface' settings (Virtual network: (new) SauravRG-vnet, Subnet: (new) default (10.0.0.0/24), Public IP: (new) VM2-ip), and 'NIC network security group' (Basic). At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next : Management >'. The 'Next : Management >' button is highlighted.

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6. Everything is going to be default for Management, Advanced and Tag page So just click on review and create

Search resources, services, and docs (G+)

Home > Virtual machines >

Virtual machines

Default Directory

+ Add ▾ ↻ Switch to classic ...

Filter for any field...

Name ↑ ▾ Subscription ↑ ▾

No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

[Learn more about Windows virtual machines](#) [Learn more about Linux virtual machines](#)

Create a virtual machine

Basics Disks Networking **Management** Advanced Tags Review + create

Configure monitoring and management options for your VM.

Azure Security Center

Azure Security Center provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

✓ Your subscription is protected by Azure Security Center basic plan.

Monitoring

Boot diagnostics ☐ ☒ Enable with managed storage account (recommended)
☐ Enable with custom storage account
☐ Disable

Enable OS guest diagnostics ☐

Identity

System assigned managed identity ☐

[Review + create](#) [< Previous](#) [Next : Advanced >](#)

7. Click on create to deploy the VM and download the key pair

Home > Virtual machines >

Virtual machines

Default Directory

+ Add ▾ ↻ Switch to classic ...

Filter for any field...

Name ↑ ▾ Subscription ↑ ▾

No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

[Learn more about Windows virtual machines](#) [Learn more about Linux virtual machines](#)

Create a virtual machine

Basics Disks Networking Management **Advanced** Tags **Review + create**

✓ Validation passed

PRODUCT DETAILS

Standard D2s v3
by Microsoft
[Terms of use](#) [Privacy policy](#)

Subscription credits apply ☐

7.5648 INR/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

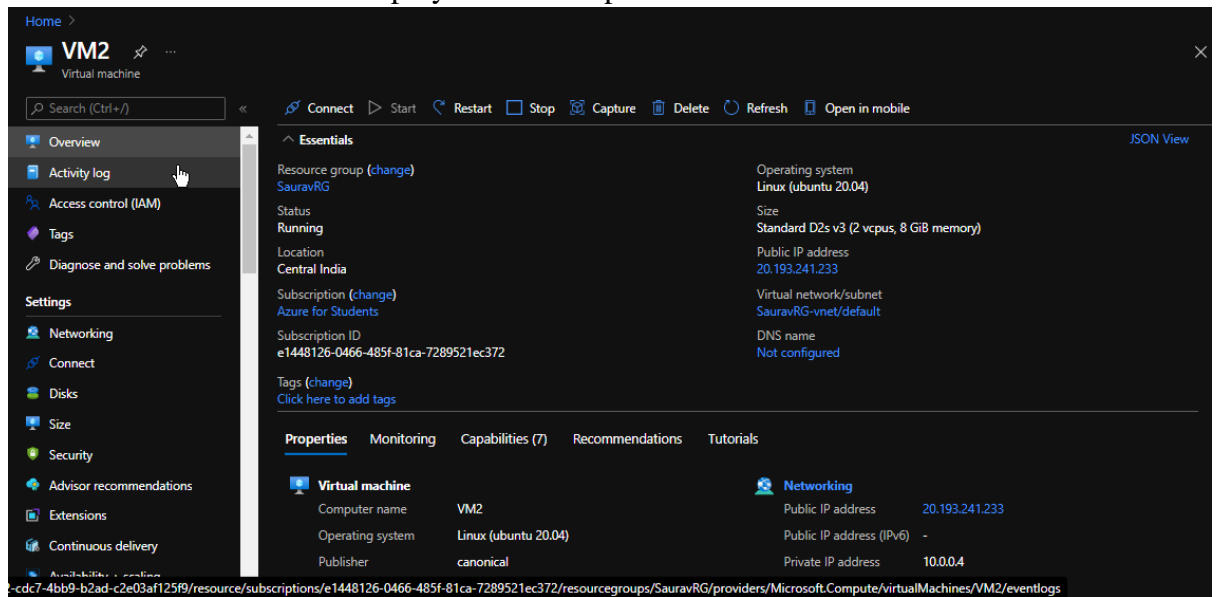
Name

Preferred e-mail address

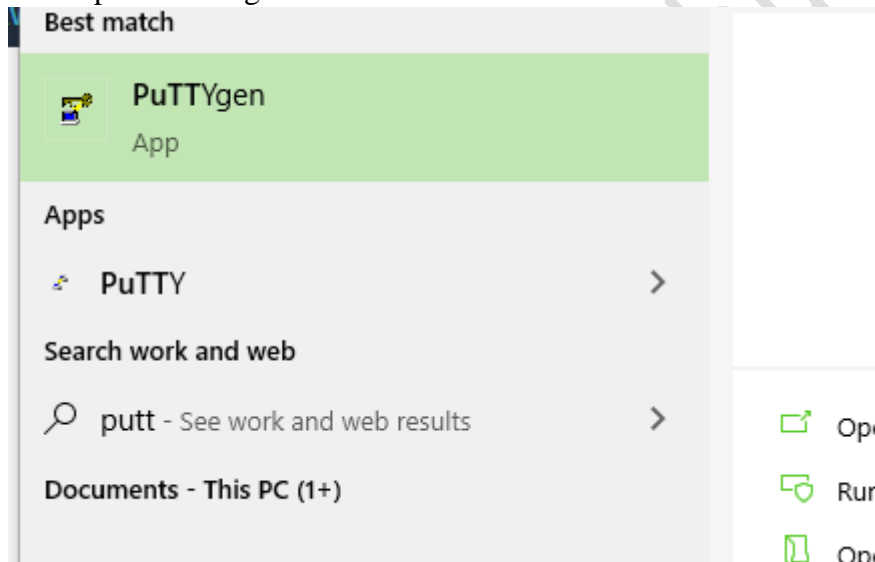
[Create](#) [< Previous](#) [Next >](#) [Download a template for automation](#)

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8. Now after few minutes our deployment is completed

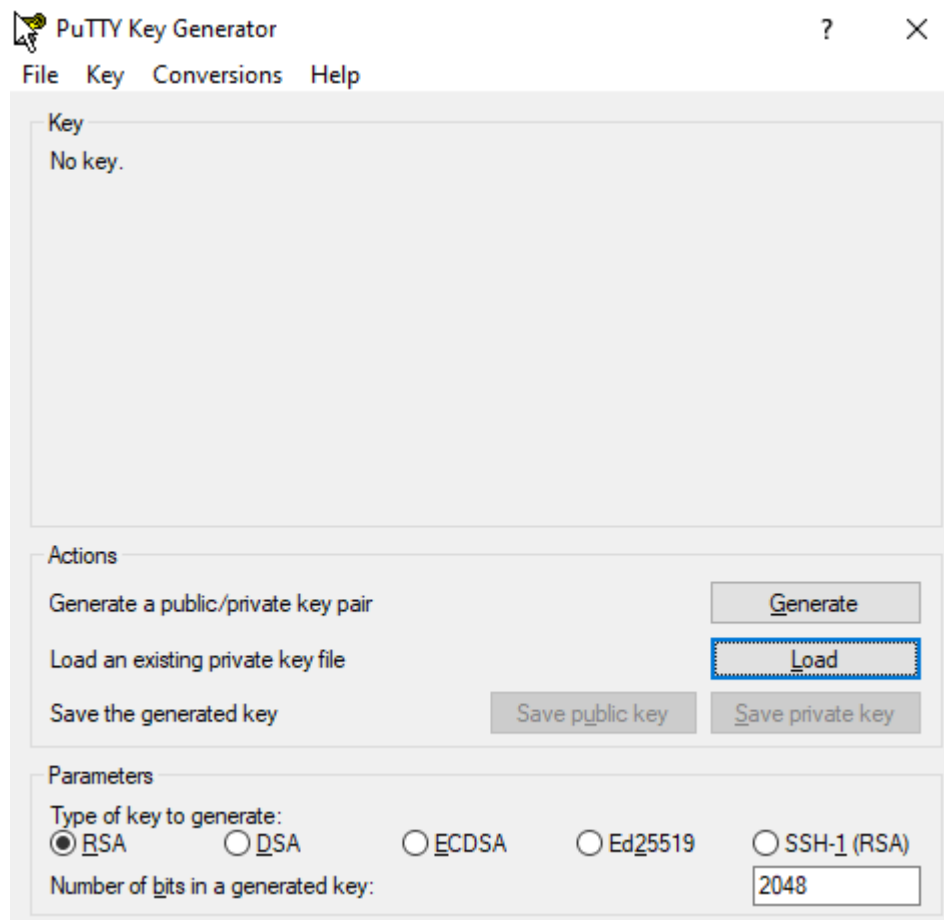


9. Now open PuTTYgen



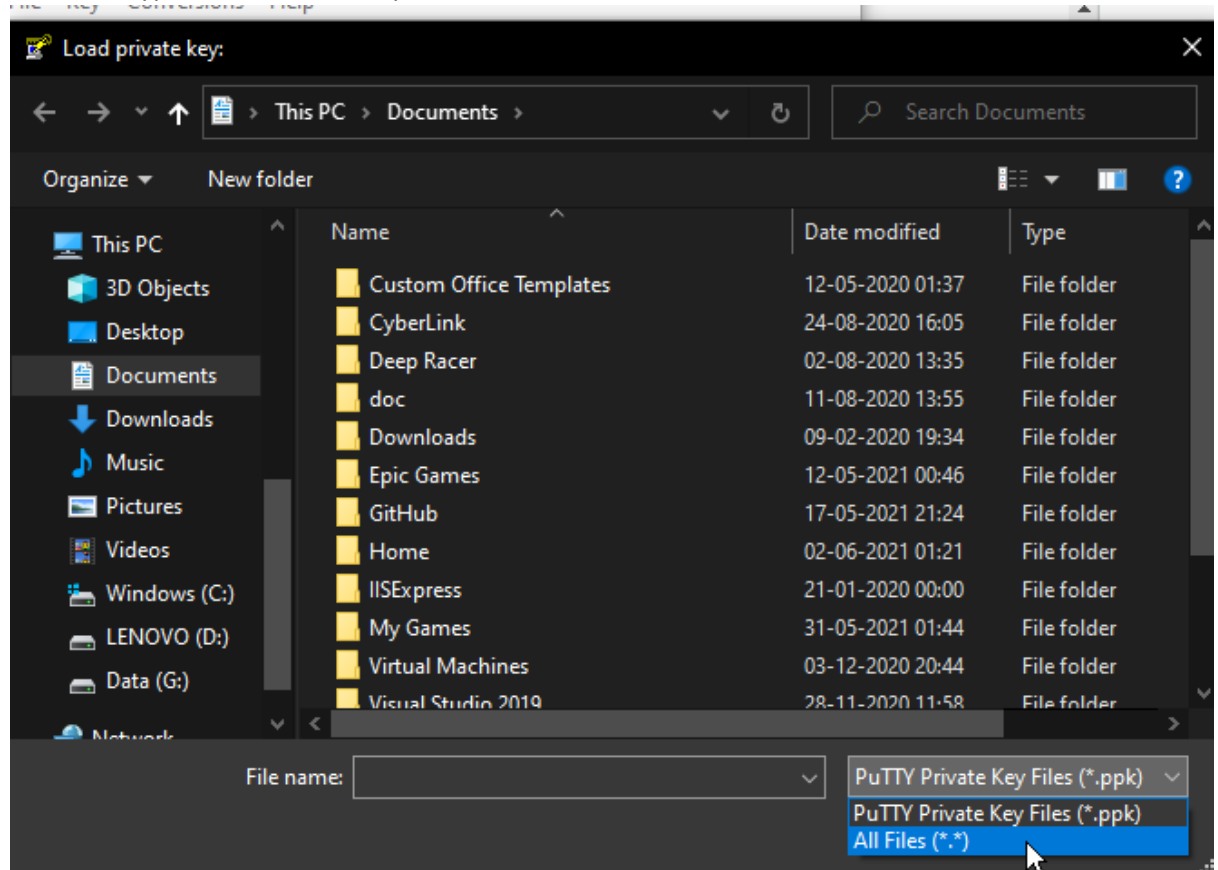
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10. Now click on Load

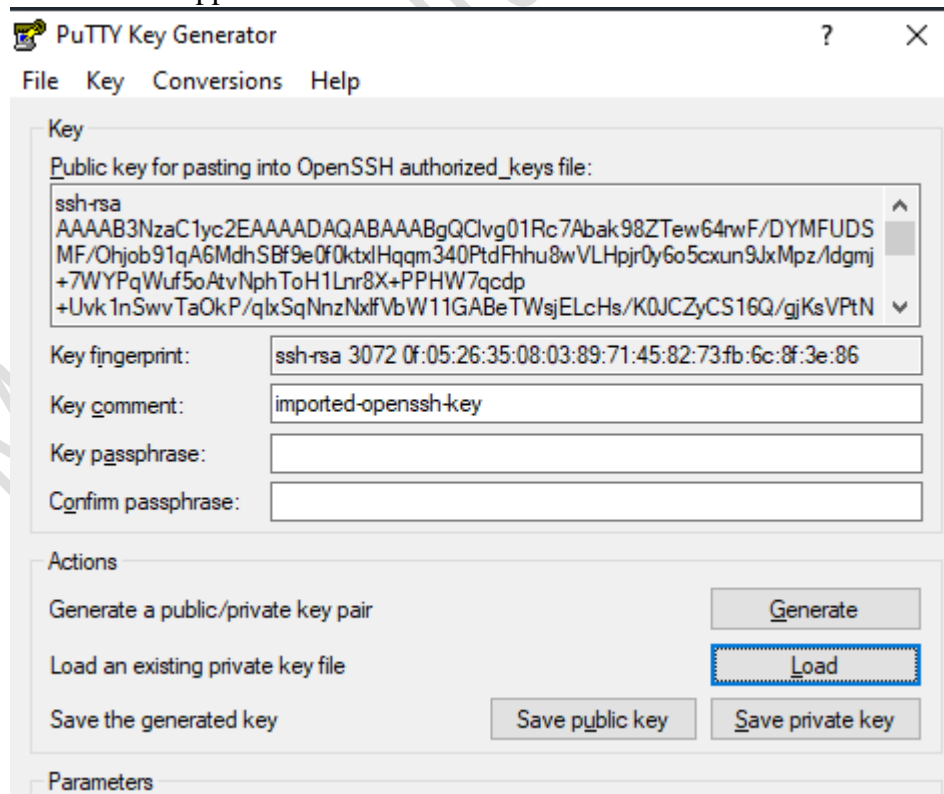


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11. In the file type select all to find .pem file

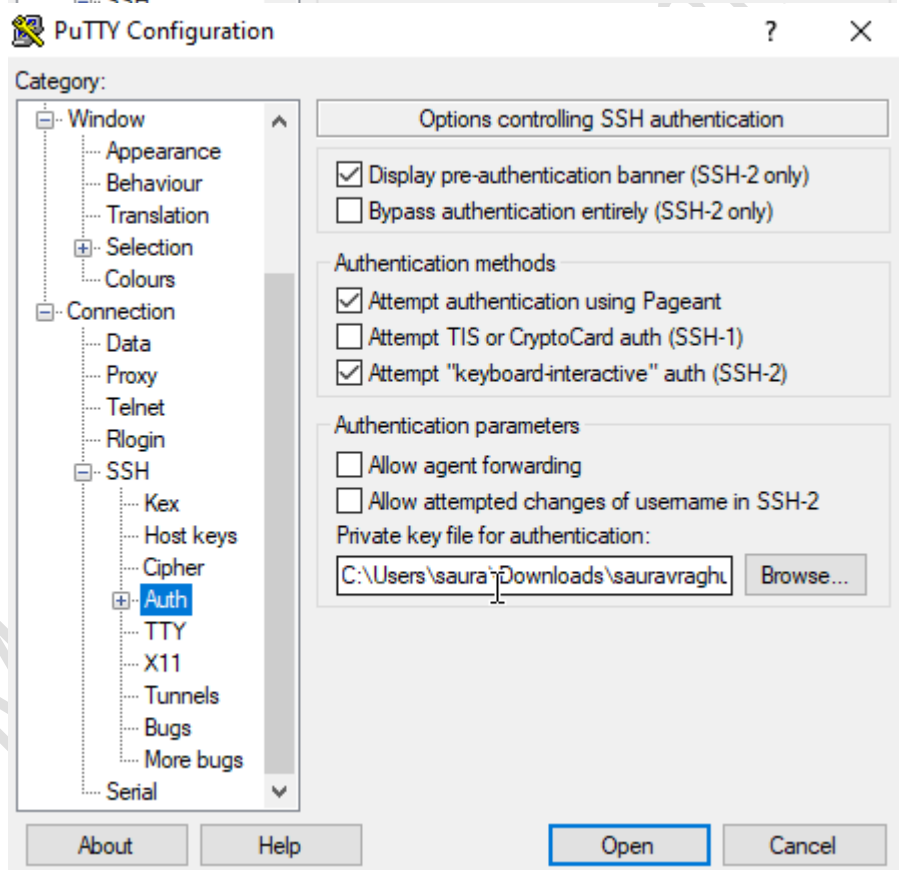
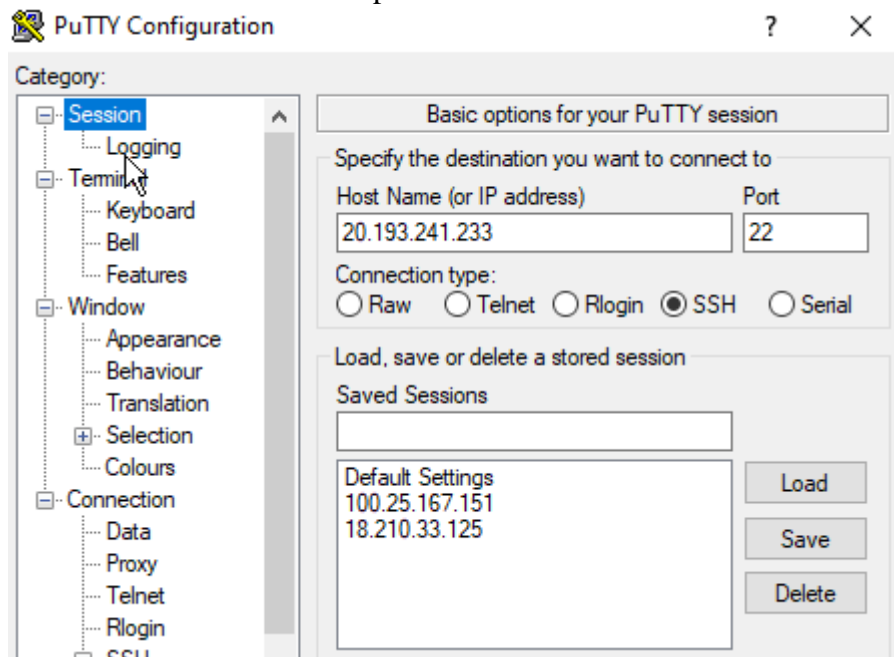


12. Navigate to the key and then select the public key and then click on save private key and save it in .ppk formate



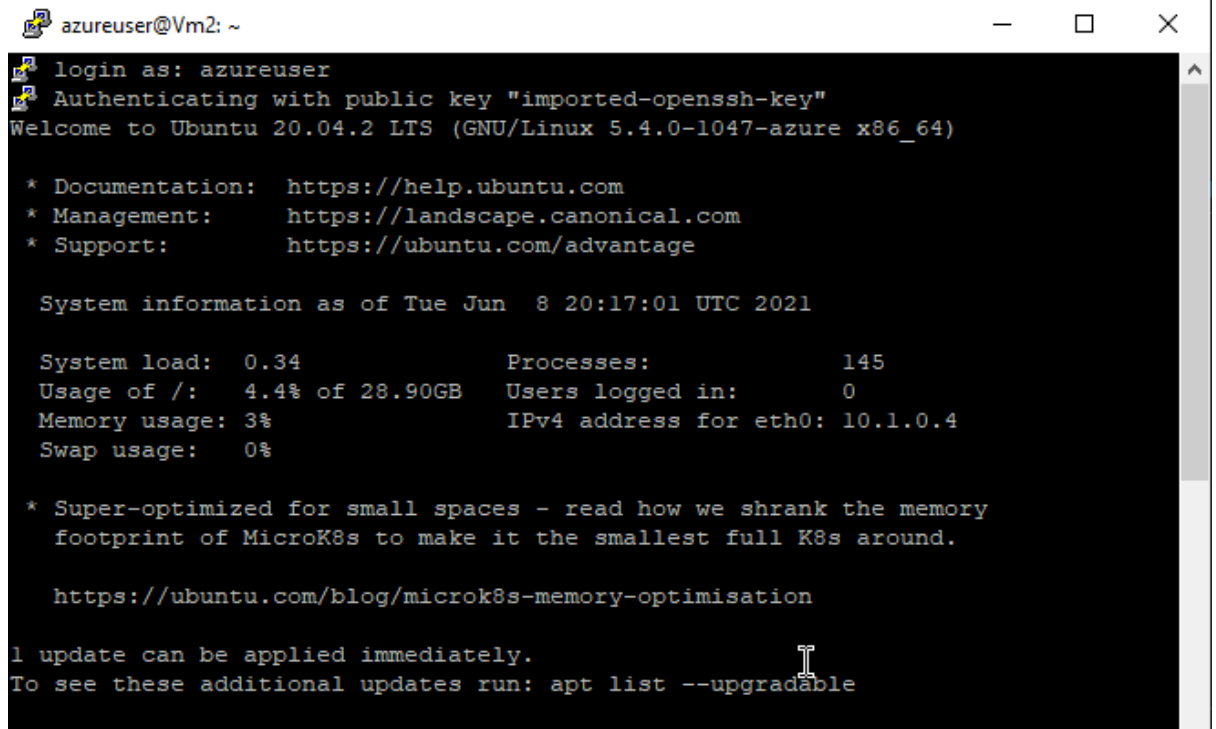
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13. Open PuTTY and in Host Name add the public IP of VM and in Auth browse to .ppk file location and then click open



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14. Give your VM user name and you will logged in to your VM

A terminal window titled 'azureuser@Vm2: ~' with standard window controls. The terminal output shows a successful login for 'azureuser' using a public key. It displays the Ubuntu 20.04.2 LTS welcome message and system information as of June 8, 2021. The system info includes load, processes, memory usage, and network details. It also mentions MicroK8s memory optimization and provides a link to the Ubuntu blog. At the bottom, it informs about available updates and how to check for them.

```
login as: azureuser
Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1047-azure x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

System information as of Tue Jun  8 20:17:01 UTC 2021

System load:  0.34               Processes:           145
Usage of /:   4.4% of 28.90GB    Users logged in:    0
Memory usage: 3%                IPv4 address for eth0: 10.1.0.4
Swap usage:   0%

* Super-optimized for small spaces - read how we shrank the memory
  footprint of MicroK8s to make it the smallest full K8s around.

  https://ubuntu.com/blog/microk8s-memory-optimisation

1 update can be applied immediately.
To see these additional updates run: apt list --upgradable
```

Congratulations, we created Linux VM and logged in to that VM thought SSH Key by using PuTTY😊😊