WHIZLABS

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Creating a Linux VM

Level: **Fundamental**

Azure Virtual Machine Azure

0h 29m 13s left

End Lab

Open Console

Validation

Lab Credentials

User Name

labuser_142282_78627457@instructorwhizlabs.onmicrosoft.com

Password

5yR6S7cWd&%OL*#

Resource Group

rg_eastus_142282_1_168967414687

Lab Resources

No Lab Resources Found

Support Documents

No Support Documents Found

Need help?

How to use Hands on Lab

Troubleshooting Lab

FAQs

Submit Feedback | Share

Lab Overview | Lab Steps | Lab Validation

Azure Administrator Associate

Lab Steps

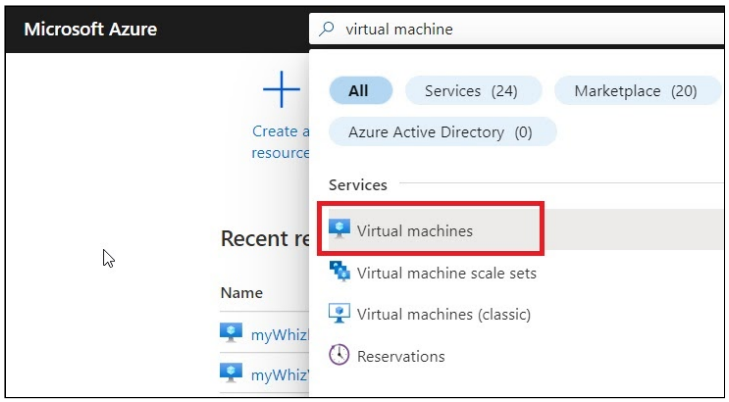
Task 1: Sign in to Azure Portal

1. Go to the Azure portal by clicking on the **Open Console** button or by using URL https://portal.azure.com.
    - **Note**: It is recommended to use incognito mode to avoid Azure portal cache related issues.
2. If it automatically logs into any other azure account, please logout of it and clear cache.
3. Sign in with your given ***username*** and ***password*** on Azure portal.
4. If login is not working. Click on **End Lab** and start the lab again.

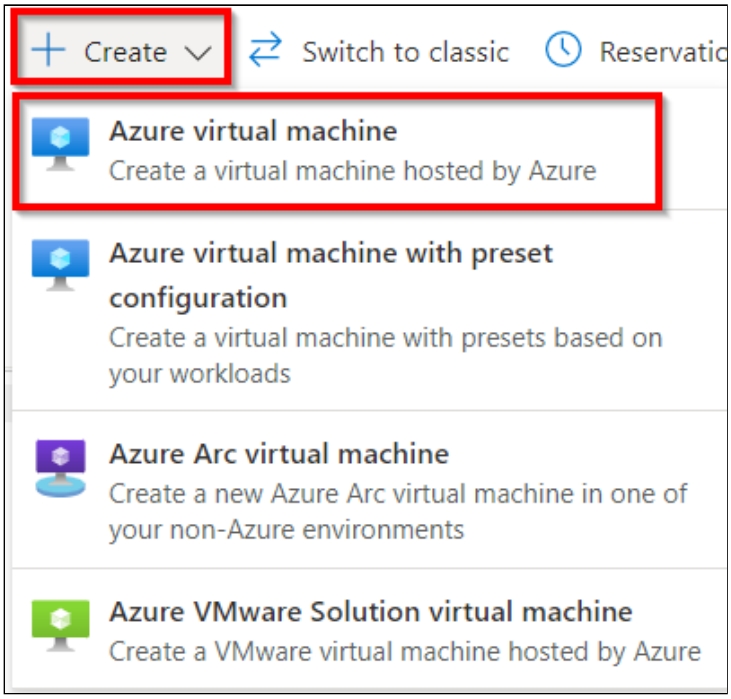
Task 2: Create Virtual Machine

In this task, we will create **Linux Virtual Machine** on Azure Portal.

1. Search for **virtual machines** in the search bar present in the Azure portal.

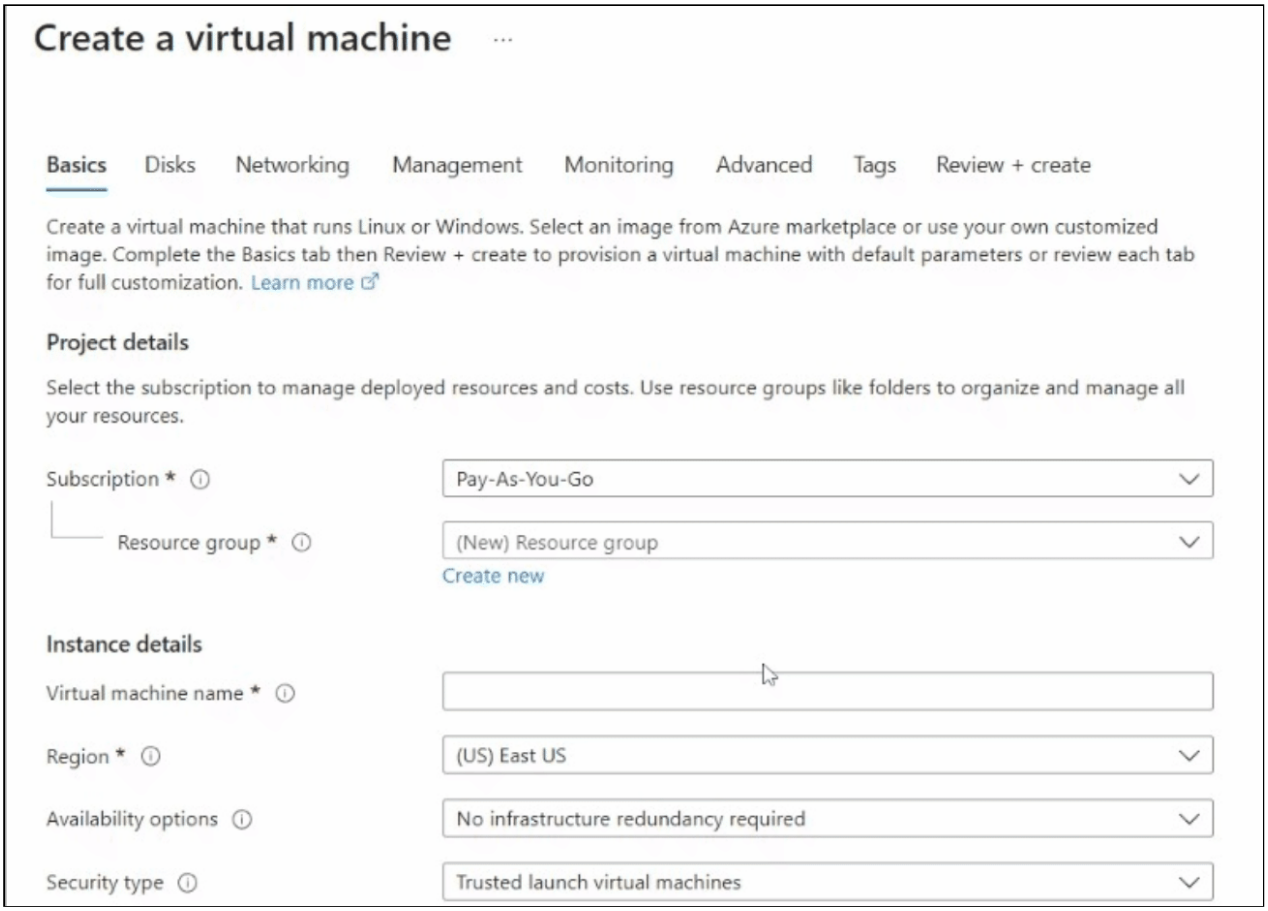


2. Click on Virtual Machine Blade and then Click on Create Button.



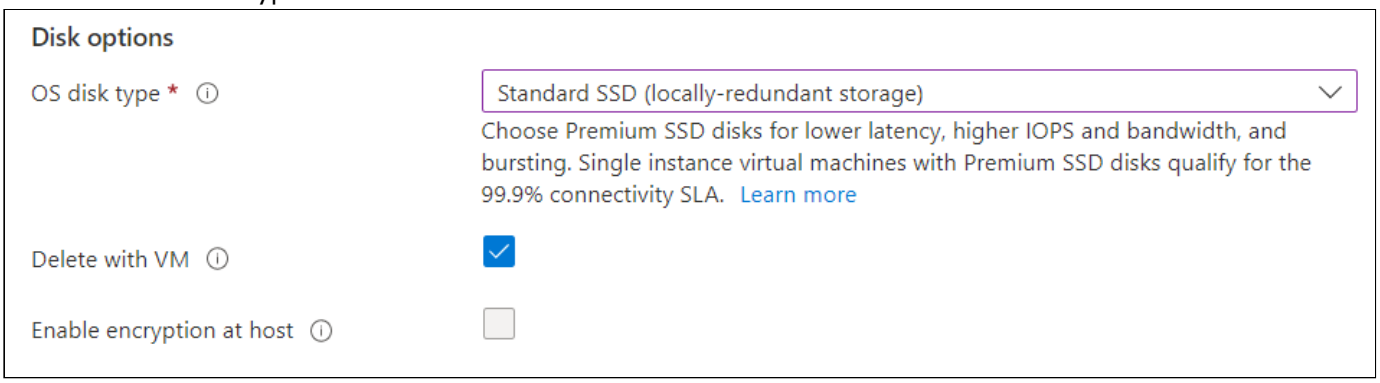
3. In the Basic tab, fill the following details

- Resource group: Select **rg_eastus_xxxxx**
- Virtual machine name: Enter ***WhizlabsVM***
- Region: select **East-US**
- Image: select **Ubuntu Server 20.04 LTS - Gen 2**
- Size: Click on ***See all sizes*** and pick **Standard_B2s**. On selecting the size, click on **Select** button.
- Authentication type: select **SSH Public Key** based
    - Username: Enter **whizlabsuser**
    - SSH public key source: Select **Generate new key pair**
    - Key pair name: Leave the default value
    - Inbound port rules: Leave the default values



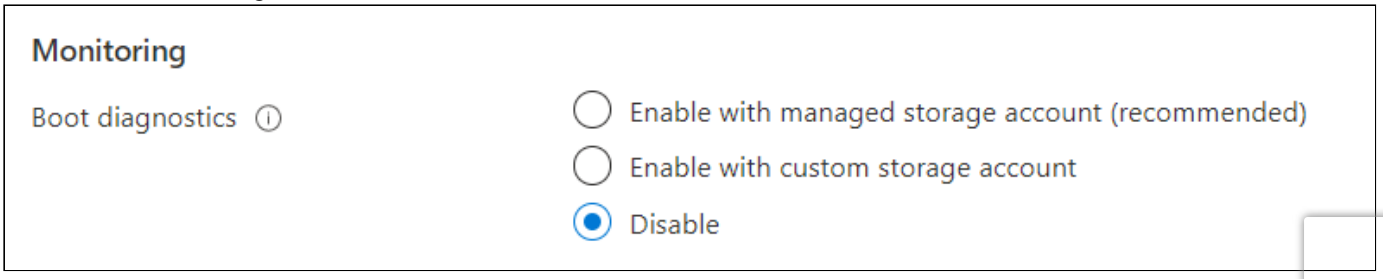
4. In the Disks Tab

- OS Disk Type: Select **Standard SSD**



5. In the **Networking** and **Management** tab leave everything as Default and go to **Monitoring** tab.

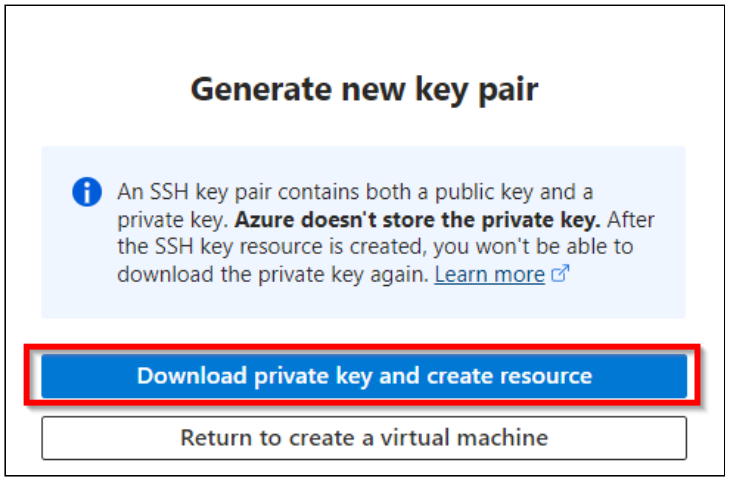
- Boot diagnostics: select **disable**



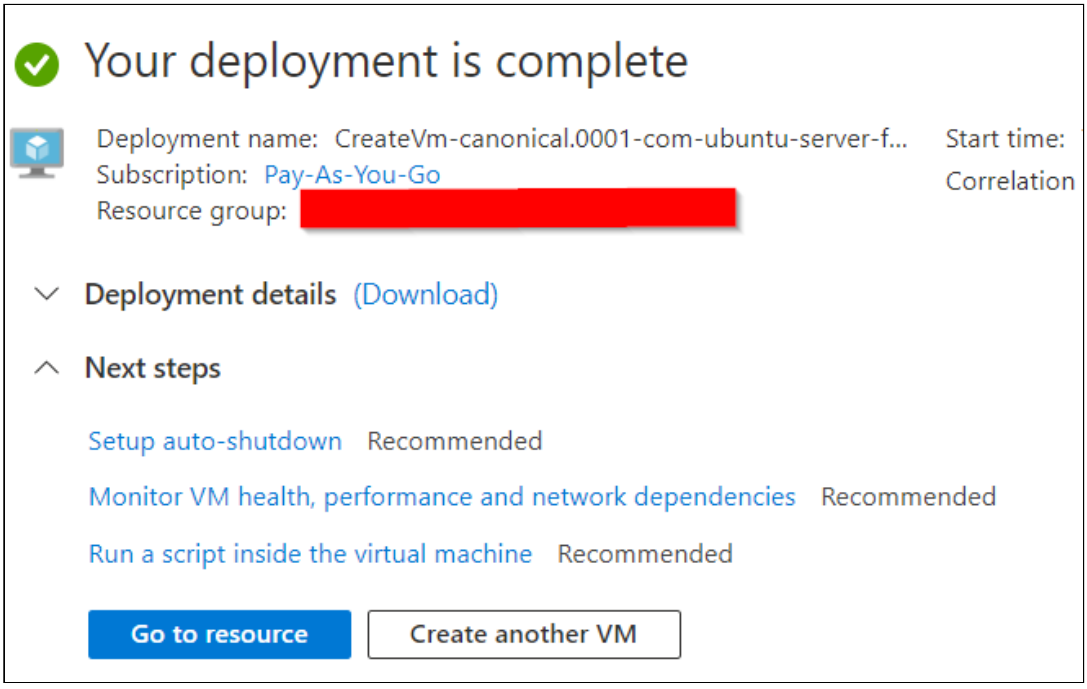
6. Click on the **Review + Create** and then click on **Create** button.

NOTE: In the **Review+Create** Tab if it asks for any preferred email address and phone number, give some random email and phone number.

7. Click on **Download Private Key and create resource**.



8. Wait Until the Deployment is Completed and click on **Go to Resource** Button.



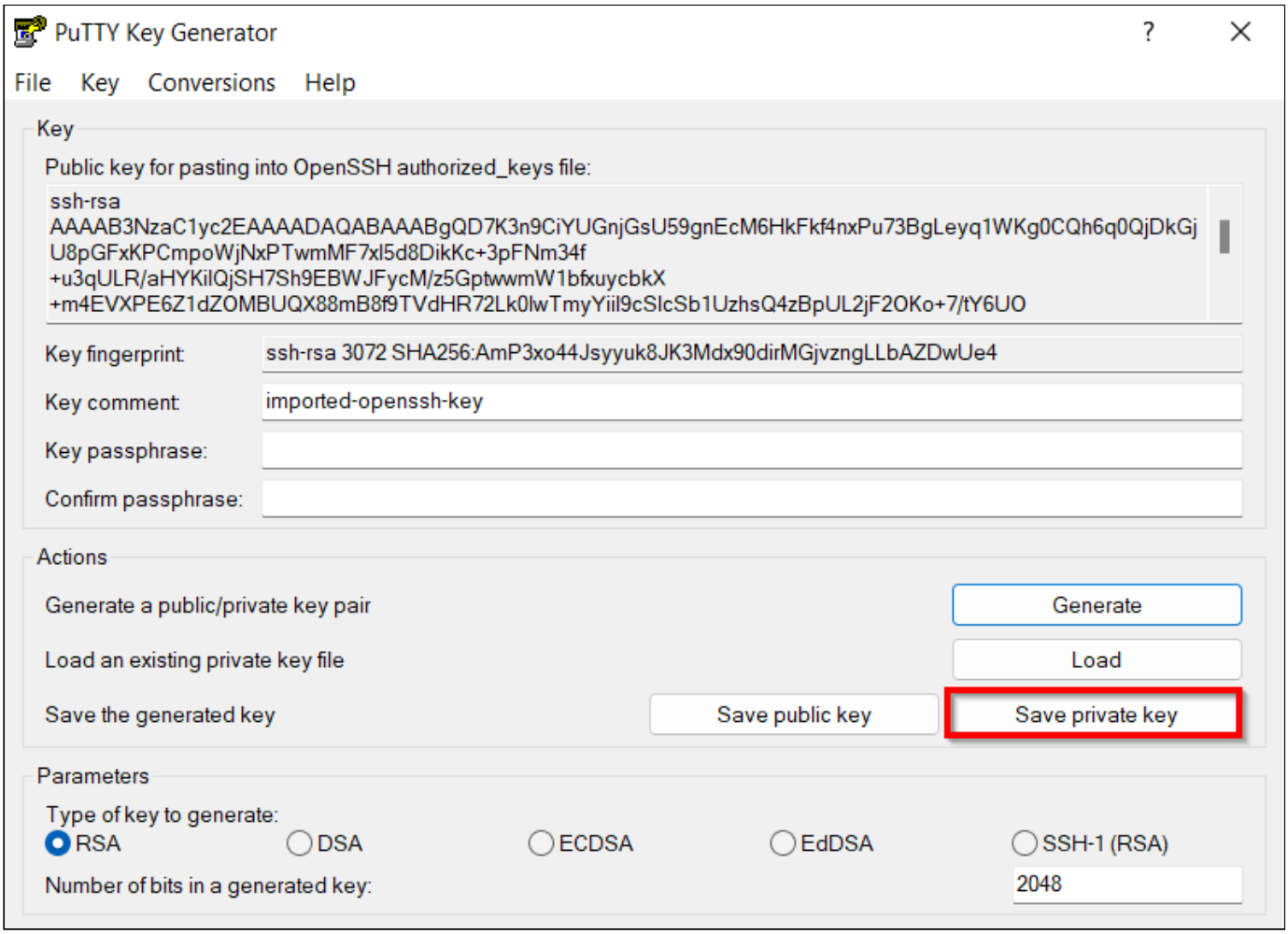
Do You Know?

Azure virtual machines offer specialized sizes optimized for various workloads, providing unparalleled flexibility and performance tailored to specific application requirements.

Task 3: SSH into the virtual machine

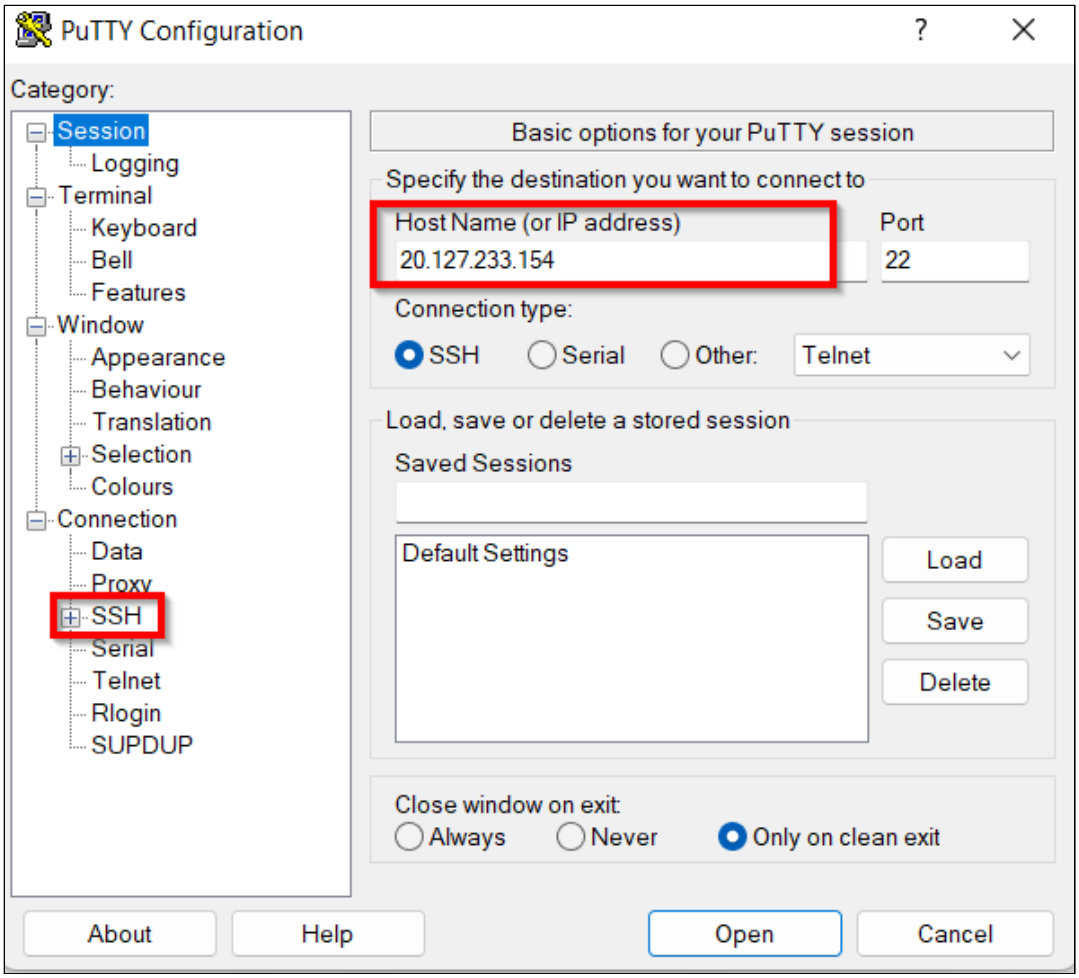
In this task, we will connect **Linux Virtual Machine** using **SSH**.

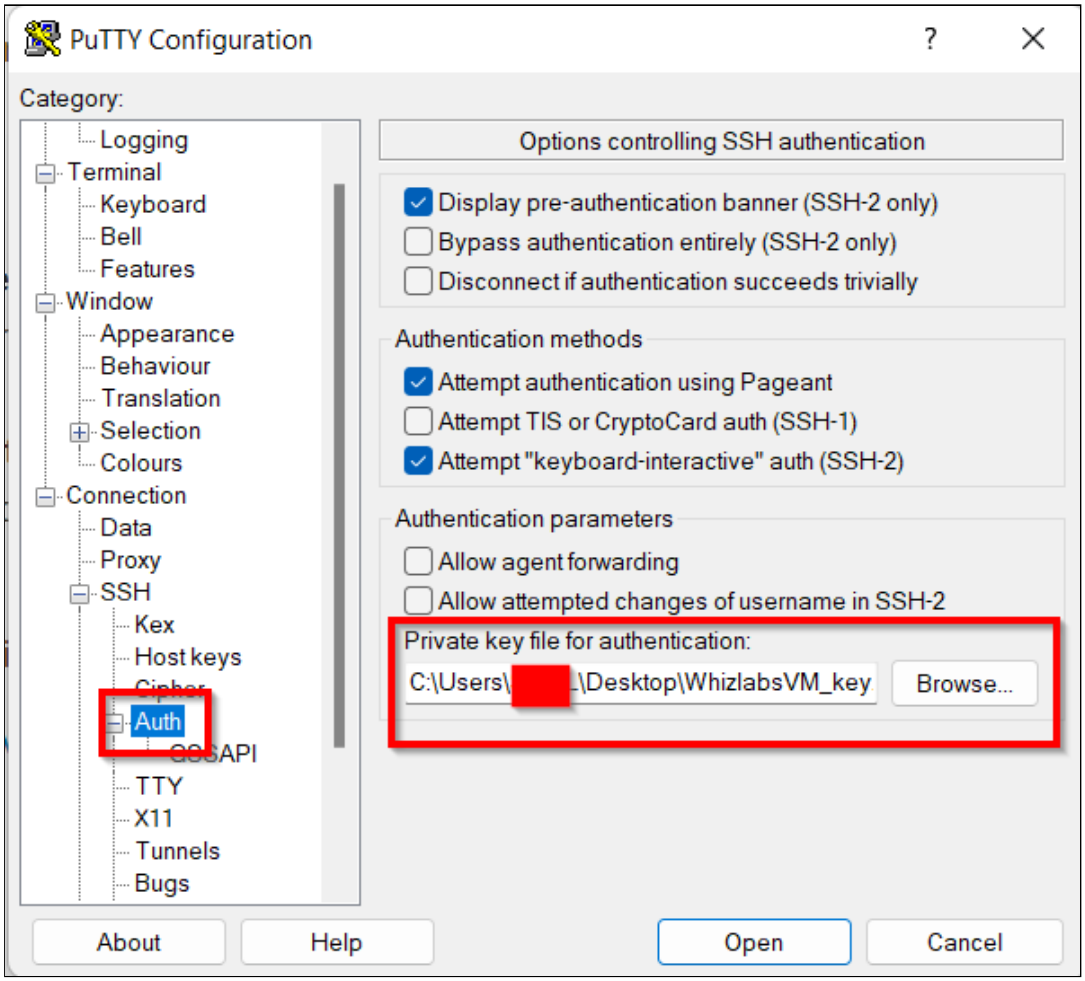
1. Click on the **Connect** button, and select **SSH**.
2. For Windows Users You have to install putty and putty gen from the links given below
    - PuTTYgen Download
    - putty
3. In PUTTYgen Application
    - Click on **the Conversions** tab -> **Import key**, upload the file that you have downloaded while creating the virtual machine
    - Click on the **Save Private Key** button
    - Save the file with same name as of Public key downloaded from Azure.
    - Close the PUTTYgen application

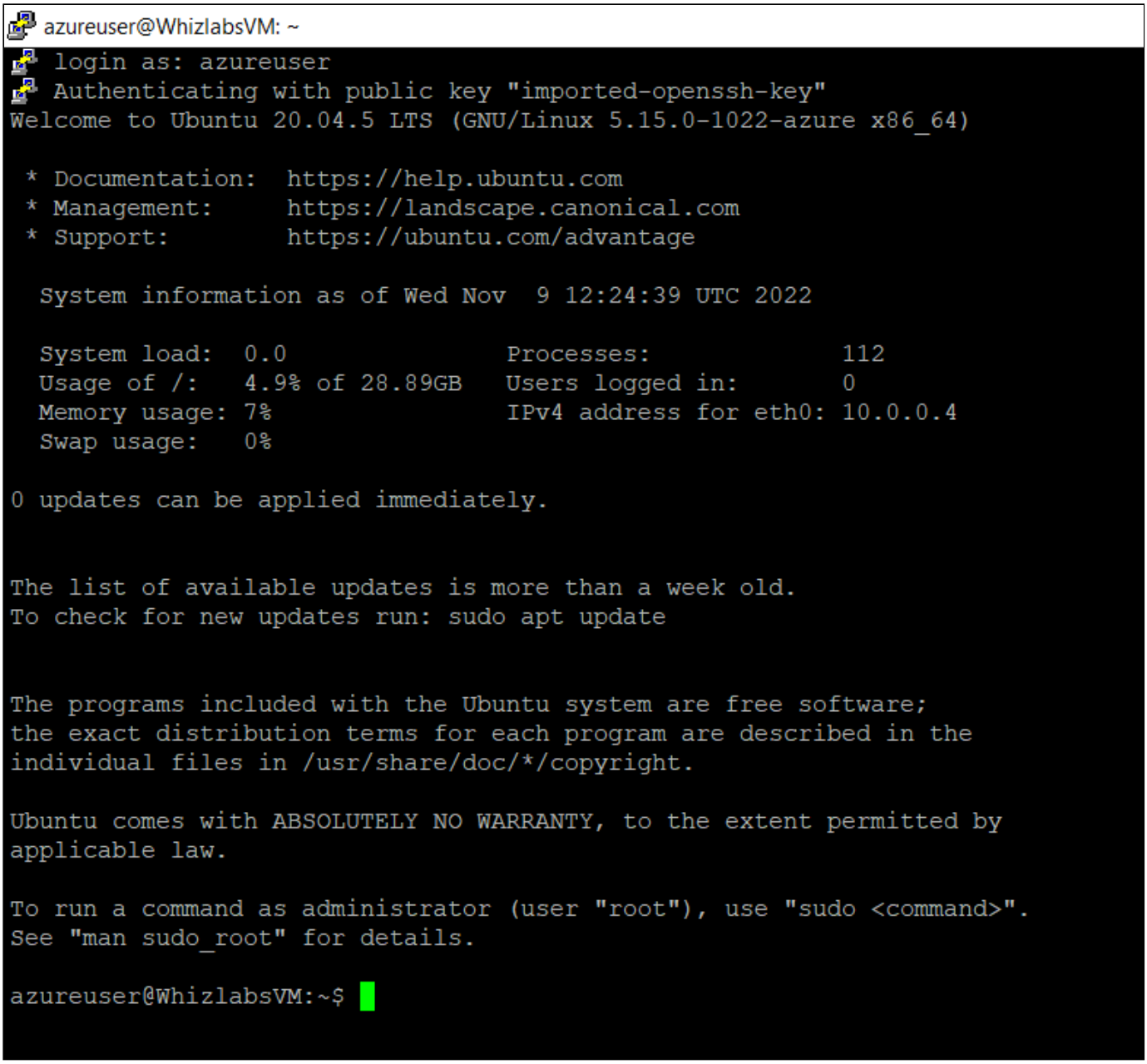


4. In PUTTY Application
    - Give the **public IP address** of the **virtual machine** that we have created

- Go to **SSH** tab and then got to **Auth** tab and load the private key file
- Click on **Open**
- You will be prompted with a security alert , click on **Accept**
- Enter the **username** that you have specified while creating the virtual machine(whizlabsuser)
- You will now be successfully logged into ubuntu virtual machine




PuTTY Configuration
Category:
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Kex
Host keys
Cipher
Auth
GSSAPI
TTY
X11
Tunnels
Bugs
Options controlling SSH authentication
Display pre-authentication banner (SSH-2 only)
Bypass authentication entirely (SSH-2 only)
Disconnect if authentication succeeds trivially
Authentication methods
Attempt authentication using Pageant
Attempt TIS or CryptoCard auth (SSH-1)
Attempt "keyboard-interactive" auth (SSH-2)
Authentication parameters
Allow agent forwarding
Allow attempted changes of username in SSH-2
Private key file for authentication:
C:\Users\ \Desktop\WhizlabsVM_key
Browse...
About
Help
Open
Cancel

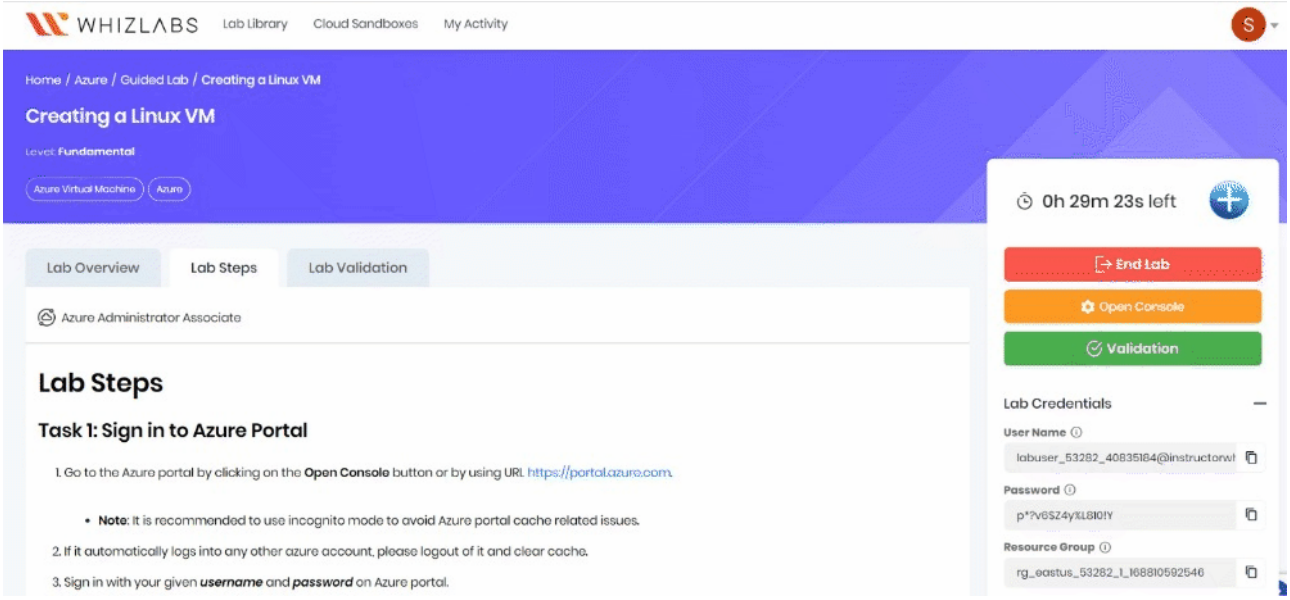


5. For mac and Linux users follow the steps given in the official Microsoft documentation

    - Create and use an SSH key pair for Linux VMs in Azure - Azure Virtual Machines | Microsoft Docs

Task 4: Validation test

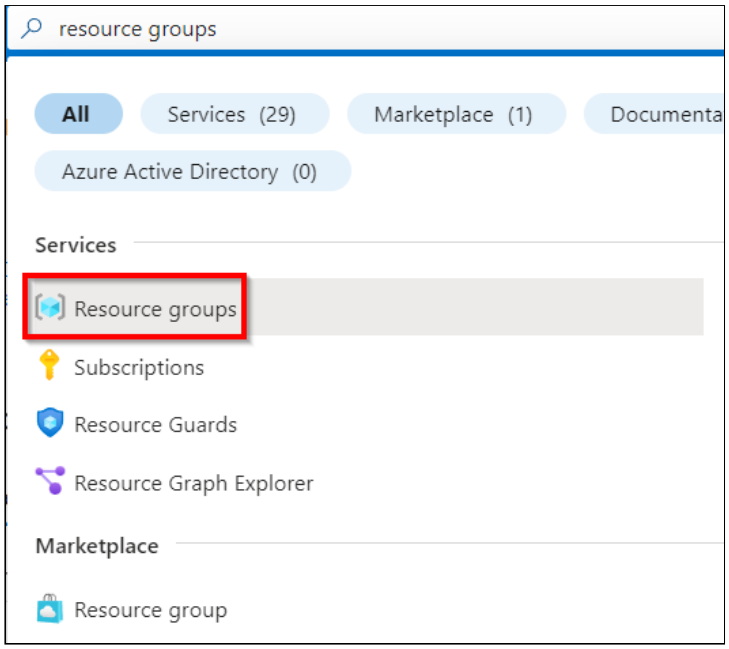
1. Once the lab steps are completed, click on **Validation** button or go to **Lab Validation** section.
2. Click on **Validate My Lab** button. You will get the **"Lab Overall Status"** which will indicate whether or not you have completed the lab successfully.
3. Sample output:



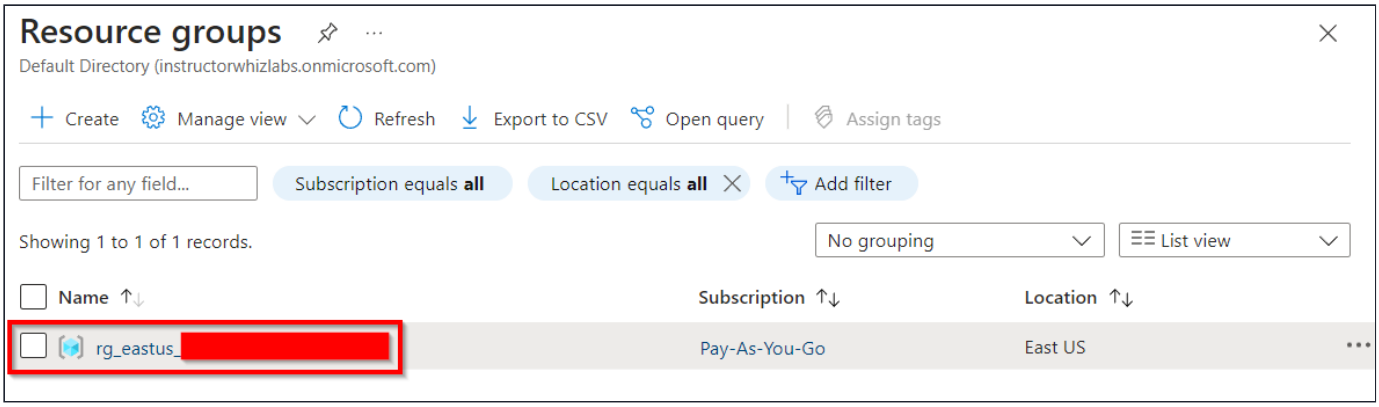
Task 5: Delete the Resources

In this task, we will delete all the resources.

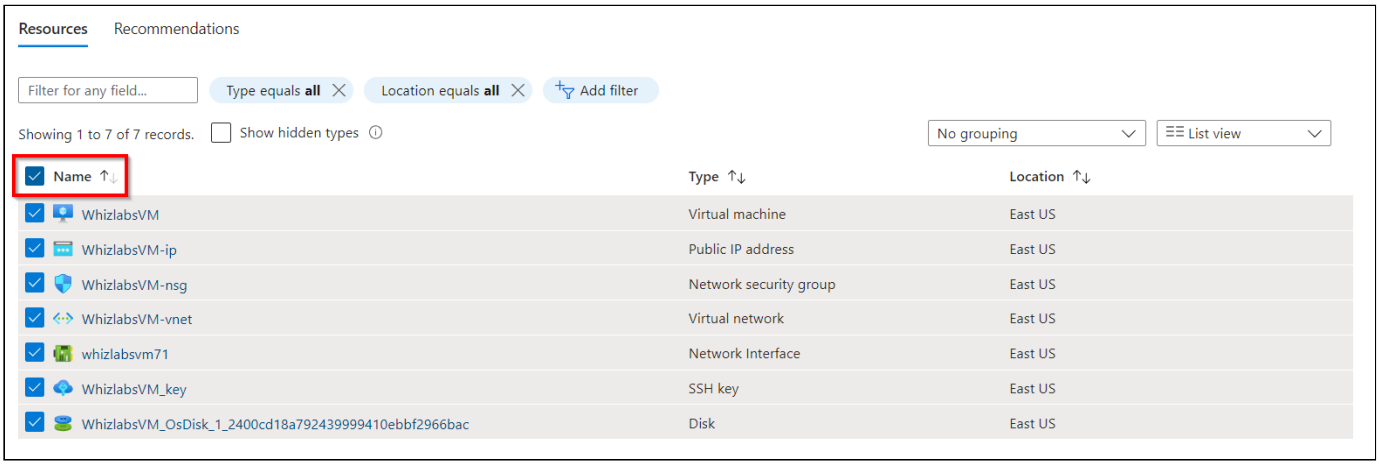
1. In the search box at the top of the Azure portal, enter **Resource groups**. Select **Resource groups** from the search results.



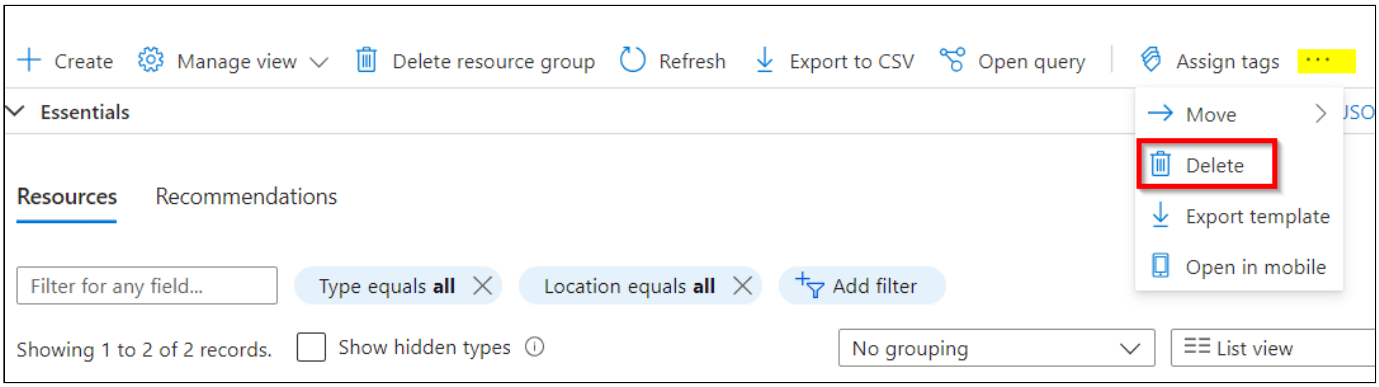
2. Click on the name of the **Resource groups**.



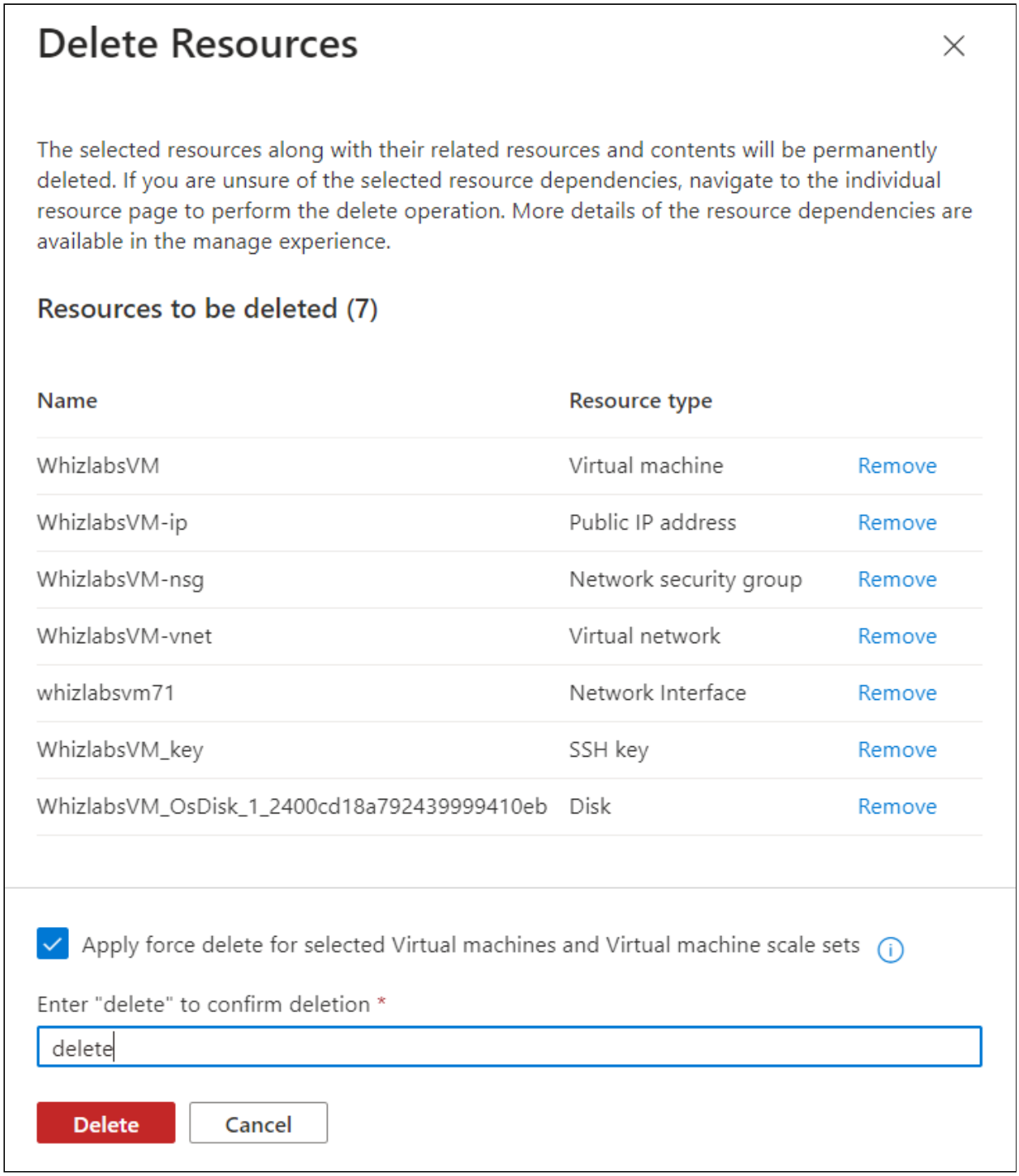
3. Select all the Resources in that **Resource groups.**



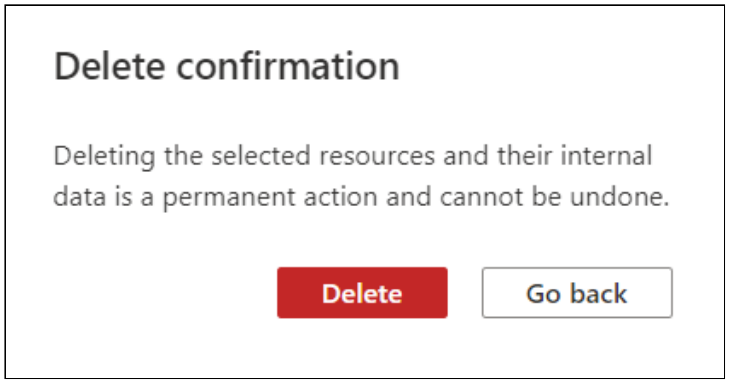
4. Go to three dots to the right and then click **Delete** button.



5. Now type **delete** in the box present at the bottom.



6. Click on **Delete** to confirm deletion of resources.



Completion and Conclusions

1. You have successfully signed into Azure Portal.
2. You have successfully configured and created a Linux virtual machine.
3. You have successfully made an SSH connection into a new virtual machine that you created.
4. You have successfully tested the validation.
5. You have successfully deleted the resourses.

End Lab

1. You have successfully completed this lab.
2. Click on **Sign out** in Azure Portal by clicking on the logout button in the top right corner inside Azure Profile.
3. Click on **End Lab** once you have completed the Lab.