



Creating a Linux VM

Azure Virtual Machine Azure



Open Console

Lab Credentials

labuser_142282_78627457@instructorwhizlabs.onmicrosoft.com

5yR6S7cWd&%OL*#

rg_eastus_142282_1_168967414687

No Lab Resources Found

No Support Documents Found

ns

- How to use Hands on Lab
- Troubleshooting Lab
- FAQs

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Lab Overview

Lab Steps

Lab Validation

 Azure Administrator Associate

Lab Steps

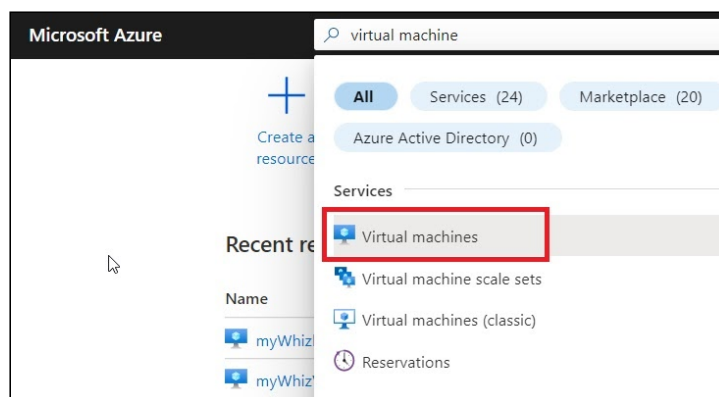
Task 1: Sign in to Azure Portal

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.

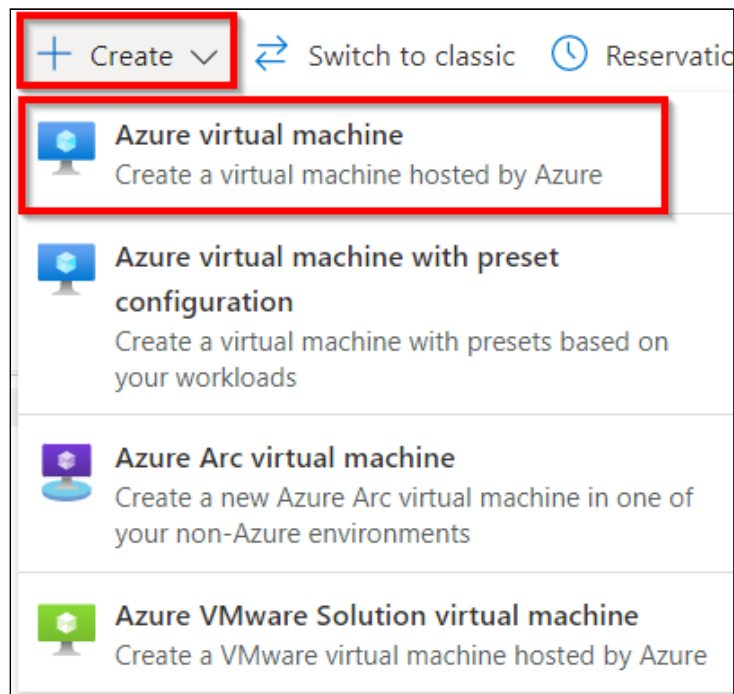
Task 2: Create Virtual Machine

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

Create a virtual machine ...

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ Pay-As-You-Go ▼

Resource group * ⓘ (New) Resource group ▼
[Create new](#)

Instance details

Virtual machine name * ⓘ

Region * ⓘ (US) East US ▼

Availability options ⓘ No infrastructure redundancy required ▼

Security type ⓘ Trusted launch virtual machines ▼

4. In the Disks Tab

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

Disk options

OS disk type * ⓘ Standard SSD (locally-redundant storage) ▼
Choose Premium SSD disks for lower latency, higher IOPS and bandwidth, and bursting. Single instance virtual machines with Premium SSD disks qualify for the 99.9% connectivity SLA. [Learn more](#)

Delete with VM ⓘ ☒

Enable encryption at host ⓘ ☐

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

- Boot diagnostics: select **disable**

Monitoring

Boot diagnostics ⓘ

☐ Enable with managed storage account (recommended)

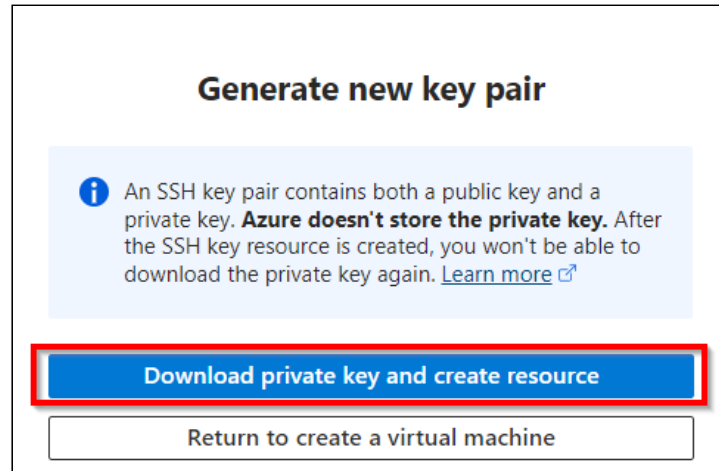
☐ Enable with custom storage account

☒ Disable

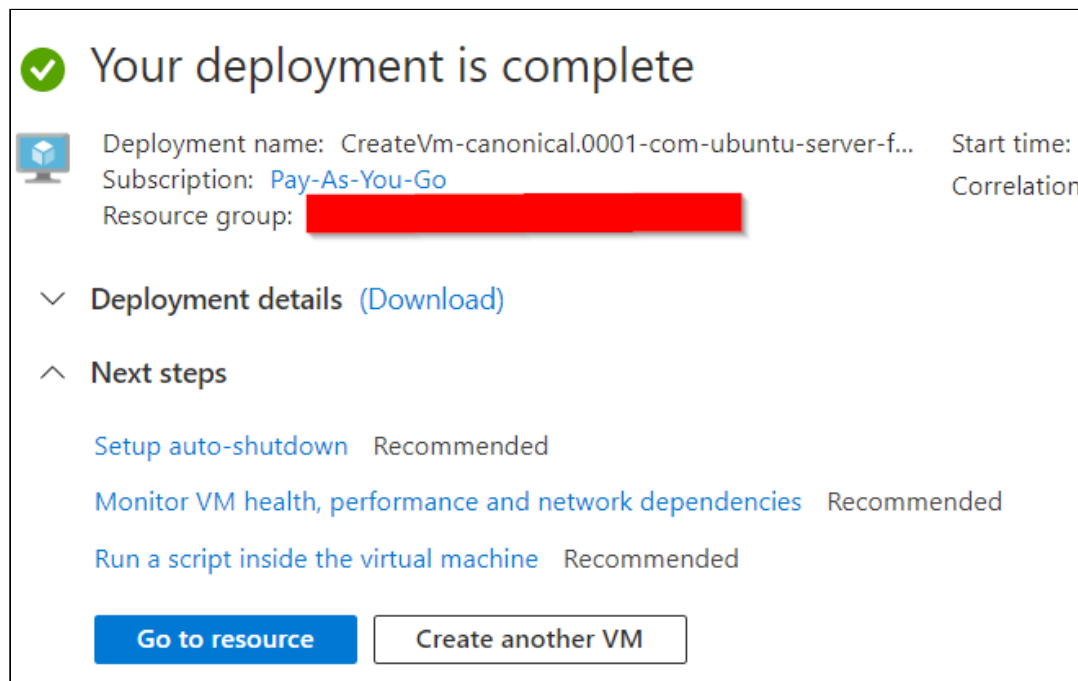
6. Click on the **Review + Create** and then click on **Create** button.

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

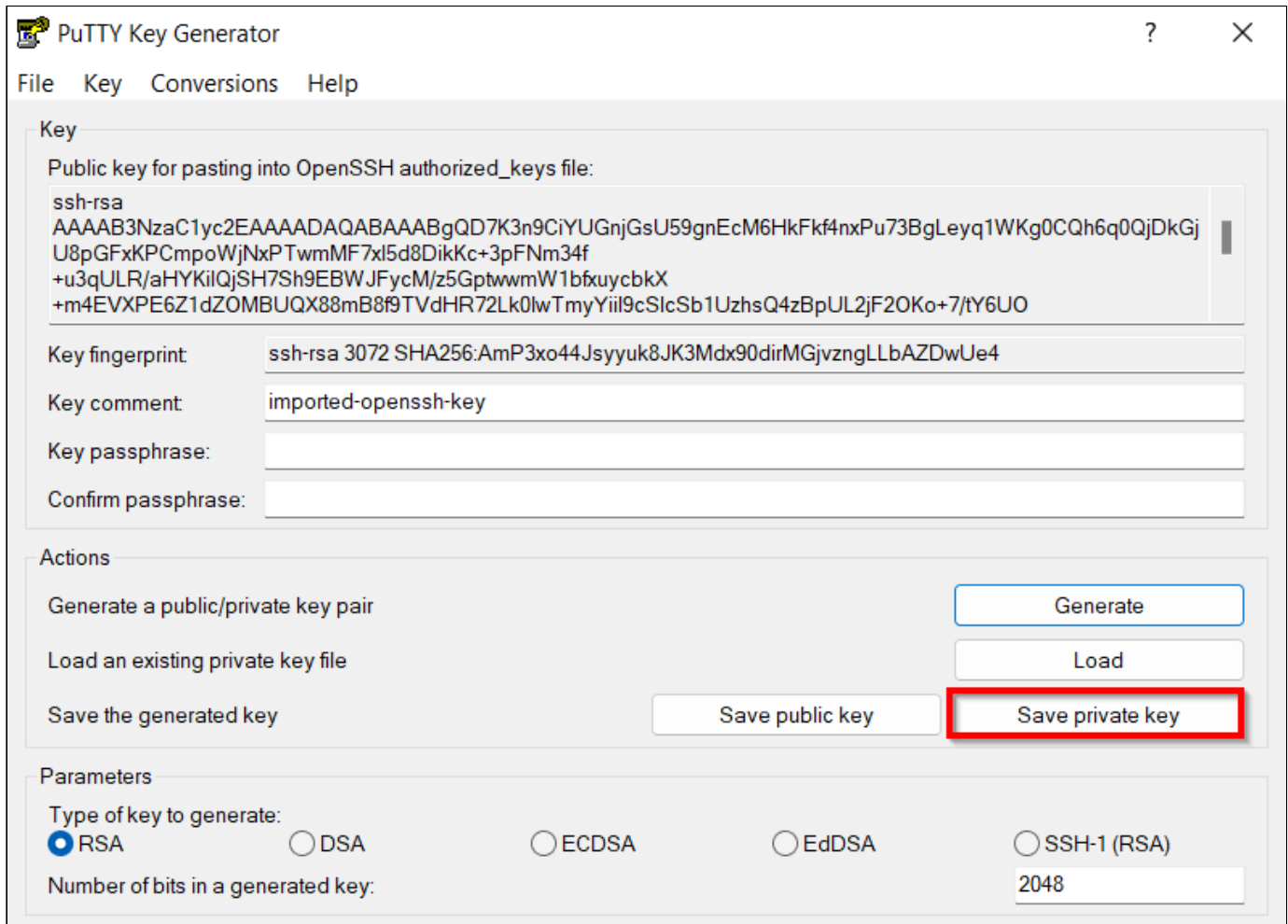
In this task, we will connect **Linux Virtual Machine** using **SSH**.

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

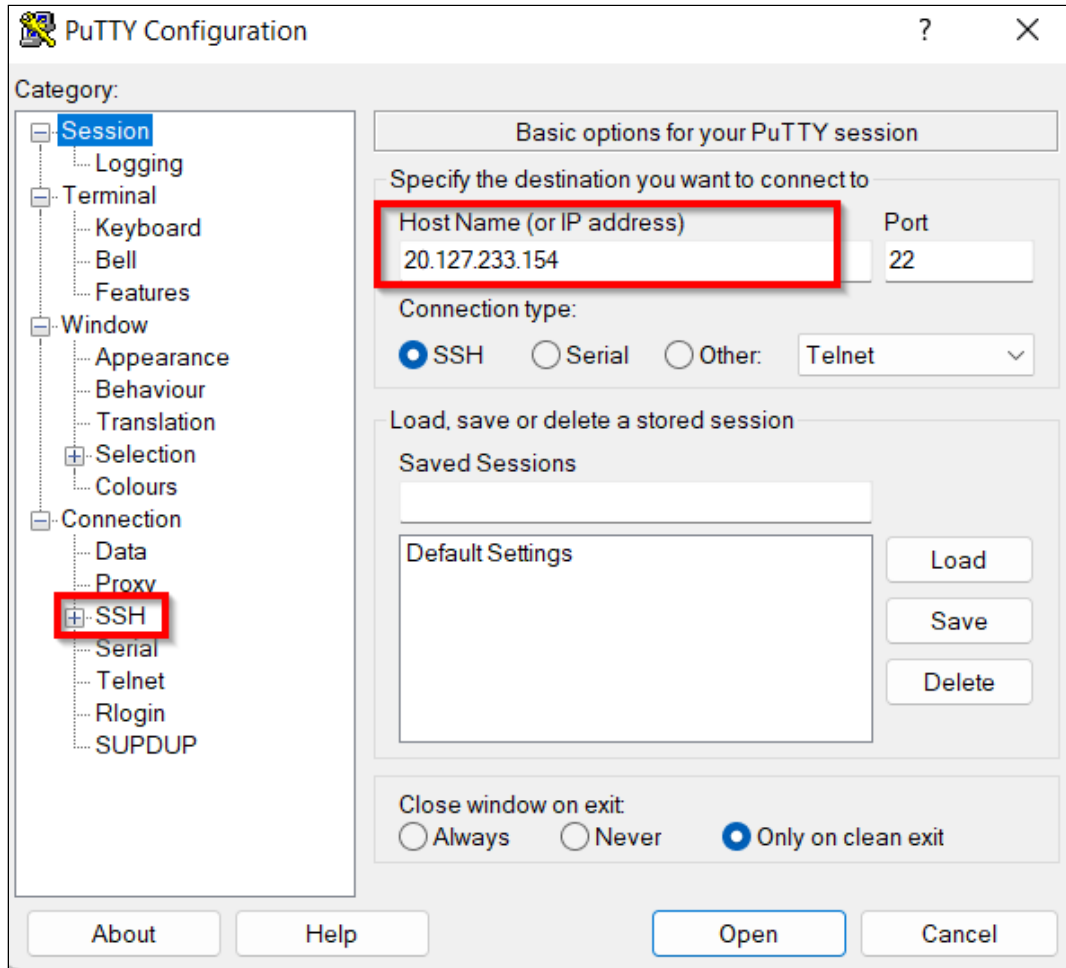
- Click on **the Conversions** tab -> **Import key**, upload the file that you have downloaded while creating the virtual machine
- Click on the **Save Private Key** button
- Save the file with same name as of Public key downloaded from Azure.
- Close the PUTTYgen application

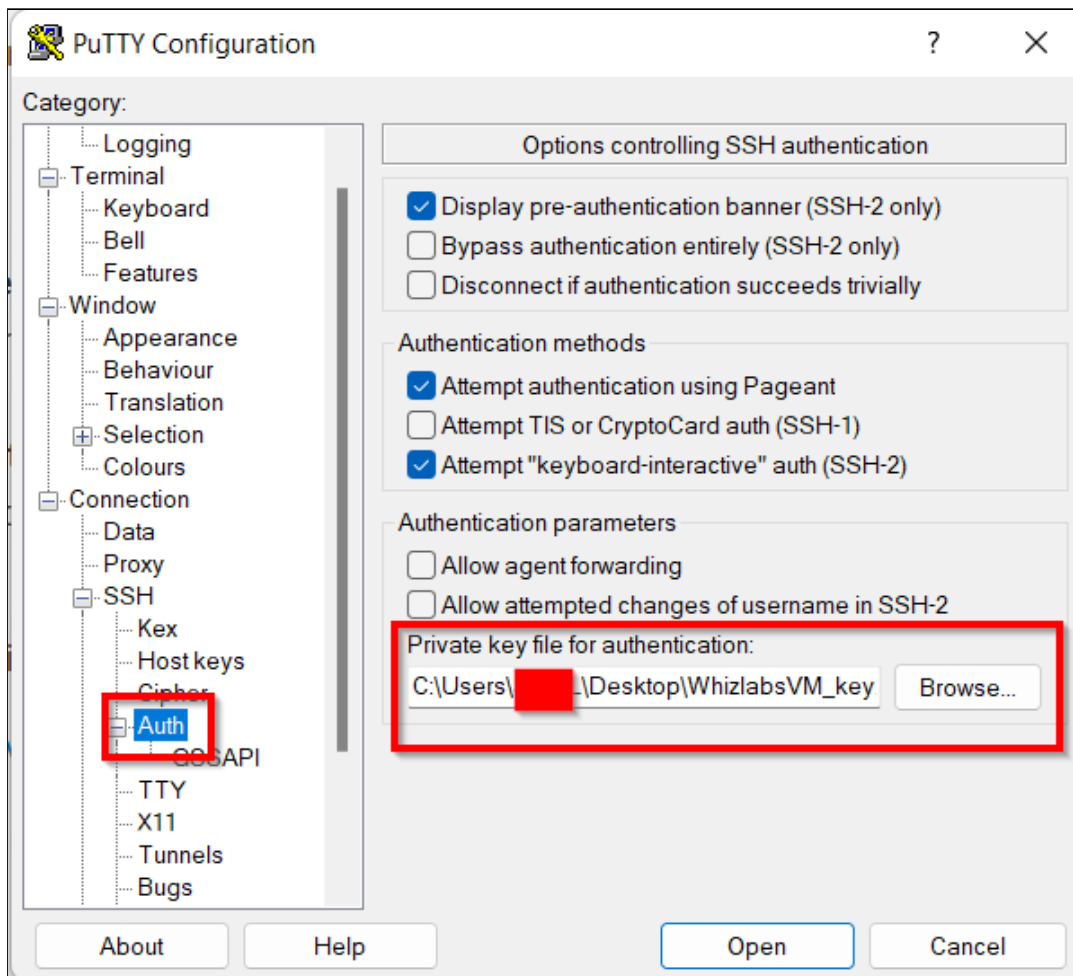


4. In PUTTY Application

- 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






```
azureuser@WhizlabsVM: ~  
login as: azureuser  
Authenticating with public key "imported-openssh-key"  
Welcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.15.0-1022-azure x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Wed Nov  9 12:24:39 UTC 2022  
  
System load:  0.0                Processes:            112  
Usage of /:   4.9% of 28.89GB    Users logged in:     0  
Memory usage: 7%                IPv4 address for eth0: 10.0.0.4  
Swap usage:   0%  
  
0 updates can be applied immediately.  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
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.  
  
azureuser@WhizlabsVM:~$
```

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

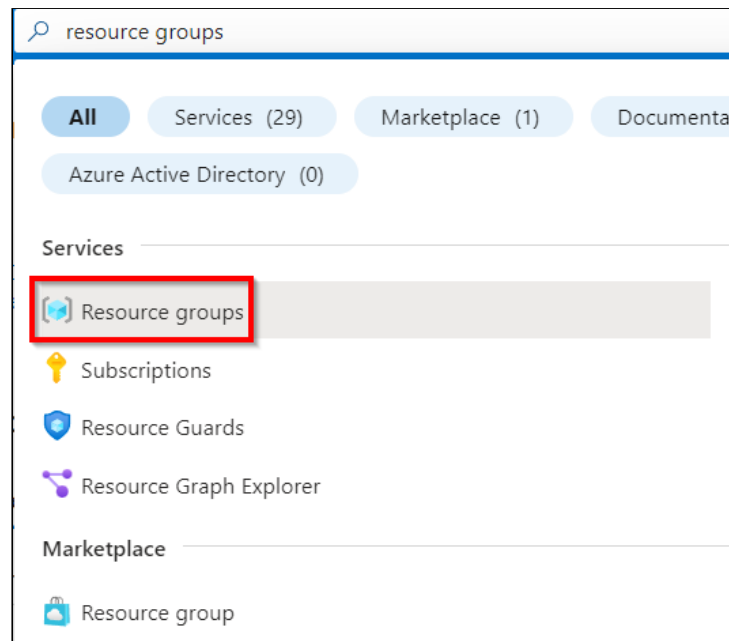
1. Once the lab steps are completed, click on **Validation** button or go to **Lab Validation** section.
2. Click on **Validate My Lab** button. You will get the "**Lab Overall Status**" which will indicate whether or not you have completed the lab successfully.
3. Sample output:

The screenshot shows the Whizlabs interface for a lab titled "Creating a Linux VM". The lab is at a "Fundamental" level and is associated with "Azure Virtual Machine" and "Azure". The interface includes tabs for "Lab Overview", "Lab Steps", and "Lab Validation". The "Lab Steps" tab is active, showing "Task 1: Sign in to Azure Portal". The task instructions are: 1. Go to the Azure portal by clicking on the "Open Console" button or by using URL <https://portal.azure.com>. 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. A "Note" states: "It is recommended to use incognito mode to avoid Azure portal cache related issues." On the right side, there is a sidebar with a timer showing "0h 29m 23s left", buttons for "End Lab", "Open Console", and "Validation", and a "Lab Credentials" section with fields for "User Name" (labuser_53282_40835164@instructorwl), "Password" (p*Pv0S24yKLB01Y), and "Resource Group" (rg_eoastus_53282_1_168810592540).

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**.

Resource groups

Default Directory (instructorwhizlabs.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query | Assign tags

Filter for any field... Subscription equals all Location equals all Add filter

Showing 1 to 1 of 1 records. No grouping List view

<input type="checkbox"/> Name	Subscription	Location
<input type="checkbox"/> rg_eastus_	Pay-As-You-Go	East US

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

Resources Recommendations

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 7 of 7 records. ☐ Show hidden types

No grouping List view

<input checked="" type="checkbox"/> Name	Type	Location
<input checked="" type="checkbox"/> WhizlabsVM	Virtual machine	East US
<input checked="" type="checkbox"/> WhizlabsVM-ip	Public IP address	East US
<input checked="" type="checkbox"/> WhizlabsVM-nsg	Network security group	East US
<input checked="" type="checkbox"/> WhizlabsVM-vnet	Virtual network	East US
<input checked="" type="checkbox"/> whizlabsvm71	Network Interface	East US
<input checked="" type="checkbox"/> WhizlabsVM_key	SSH key	East US
<input checked="" type="checkbox"/> WhizlabsVM_OsDisk_1_2400cd18a792439999410ebbf2966bac	Disk	East US

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

+ Create Manage view Delete resource group Refresh Export to CSV Open query | Assign tags

Essentials

Resources Recommendations

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 2 of 2 records. ☐ Show hidden types

No grouping List view

Move
 Delete
 Export template
 Open in mobile

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

Delete Resources ×

The selected resources along with their related resources and contents will be permanently deleted. If you are unsure of the selected resource dependencies, navigate to the individual resource page to perform the delete operation. More details of the resource dependencies are available in the manage experience.

Resources to be deleted (7)

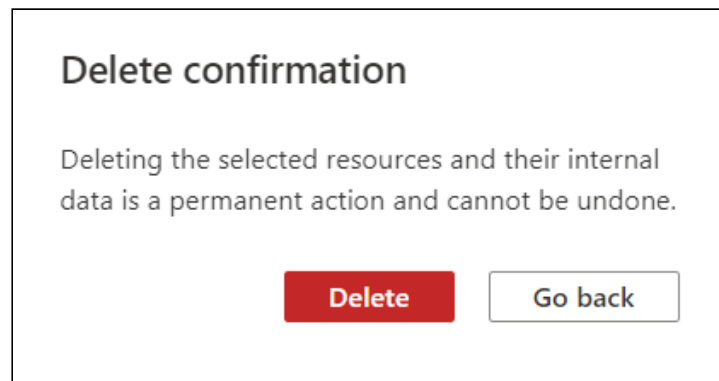
Name	Resource type	
WhizlabsVM	Virtual machine	Remove
WhizlabsVM-ip	Public IP address	Remove
WhizlabsVM-nsg	Network security group	Remove
WhizlabsVM-vnet	Virtual network	Remove
whizlabsvm71	Network Interface	Remove
WhizlabsVM_key	SSH key	Remove
WhizlabsVM_OsDisk_1_2400cd18a792439999410eb	Disk	Remove

☒ Apply force delete for selected Virtual machines and Virtual machine scale sets ⓘ
Enter "delete" to confirm deletion *

Delete

Cancel

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 resources.

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.