Before Hands-on Lab

During this time, we will set up the environment that is required for the Hands-on Lab.

Content:

Exercise 1: Azure Passes

Previous to this workshop, after registration, you will receive an Azure Pass to configure with your personal email account, this step will be coordinated with your instructors.

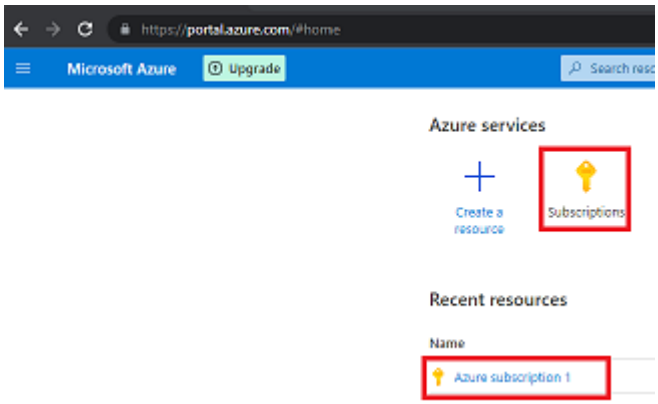
Go to this link: https://www.microsoftazurepass.com/

Click on **START**, make sure you set up this pass with a personal email or just create an outlook email account for this training. After you login and validate the account. You will ask to **Enter the Promo Code**, here you will copy the Azure Pass Code you receive by email and then click on **Claim Promo Code**.

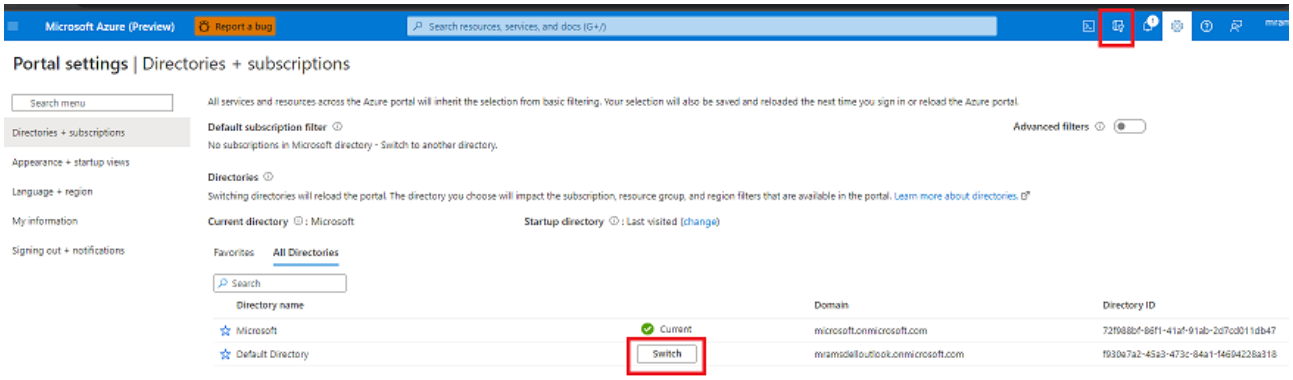
Next, fill the form with your name, after a few minutes you should have a Subscription available to start setting up your servicces in the next exercises.

To validate your subscription is active, go to Azure Portal: https://portal.azure.com/

Right in the home portal you should see the icon for **Subscriptions** click on it you sould see a new Subscription available, also the same subscription could be available in the **Recent Resources** list.



If you don't see your subscription, validate you are accessing the right directory. Go to the top right corner menu, select **Directories+Subscriptions** icon and **Switch** button to change and validate again.



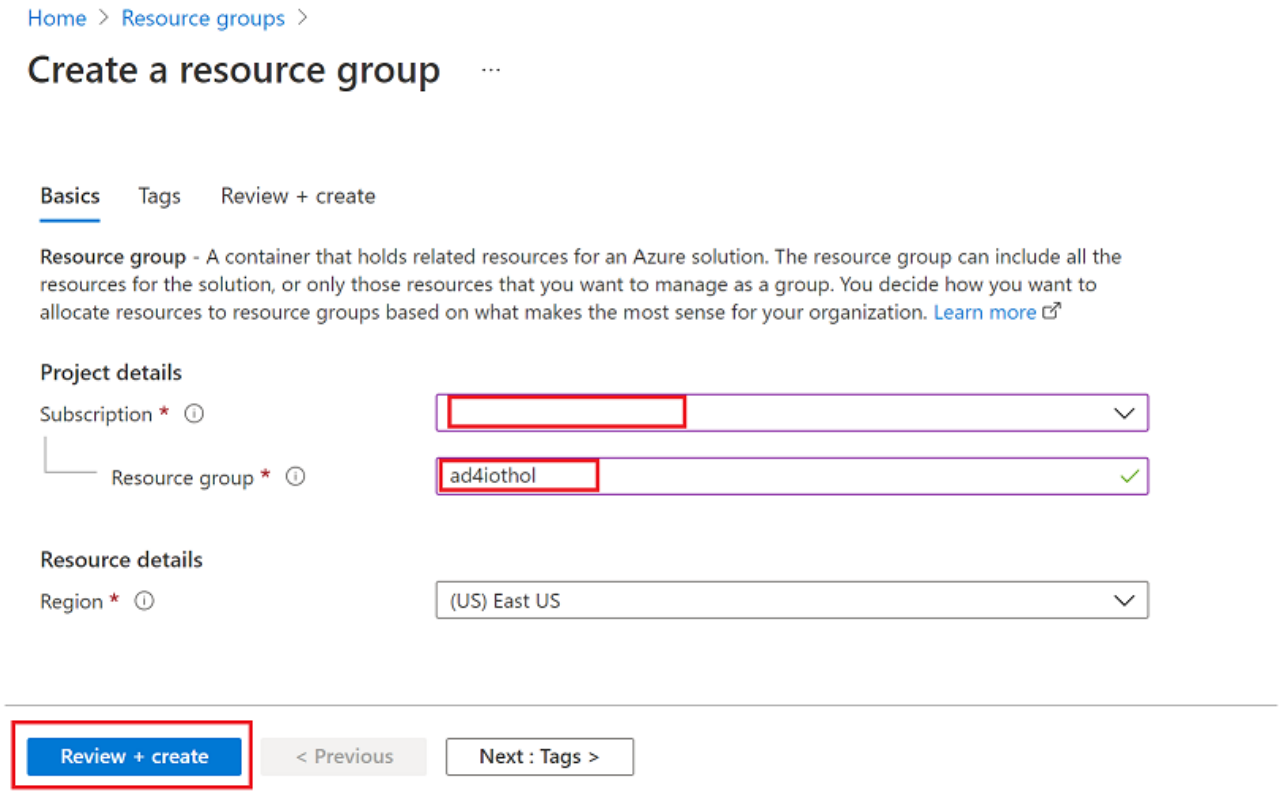
Exercise 2: Set up Environment

Once your Azure Pass is activated and you have a new subscription to work with we will move to this exercise to create a resource group for all the services we will use to build our architecture.

Task 1: Resources

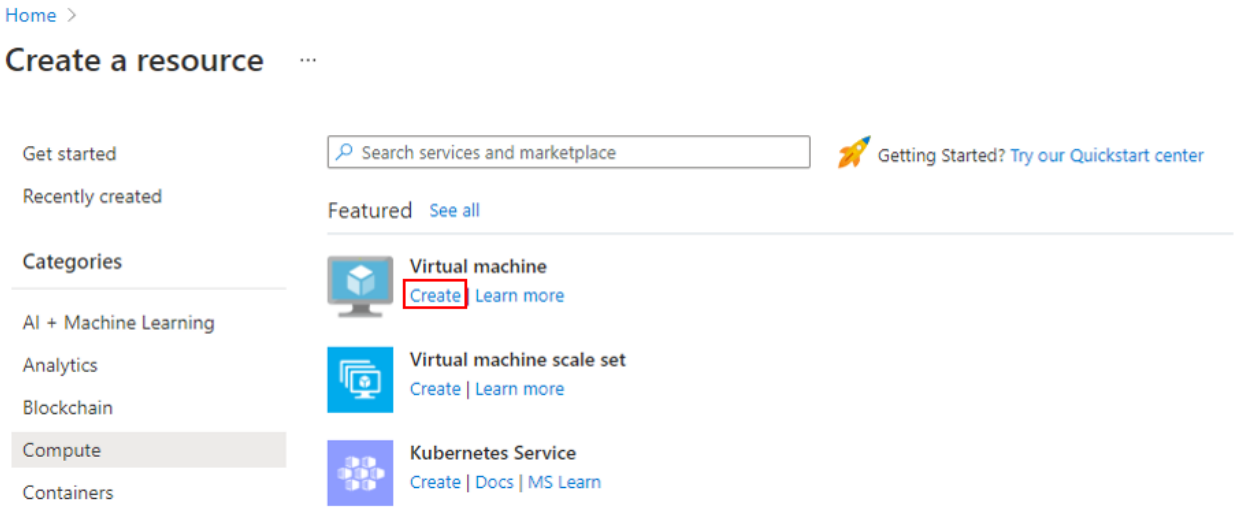
1. In Azure Portal, create a new Resource Group, from the home Page, select **+ Create a Resource** in the search box type **Resource Group**, then select **Create**.

In the next window, select your subscription, assign a name to the resource group **adt4iot+SUFFIX**, select a location and click on **Review + Create**, once you passed the validation, click **create** again



Task 2: Virtual Machine

1. On the upper-left side of the portal, select: **Create a resource** > **Compute** > **Virtual machine** >> **Create**

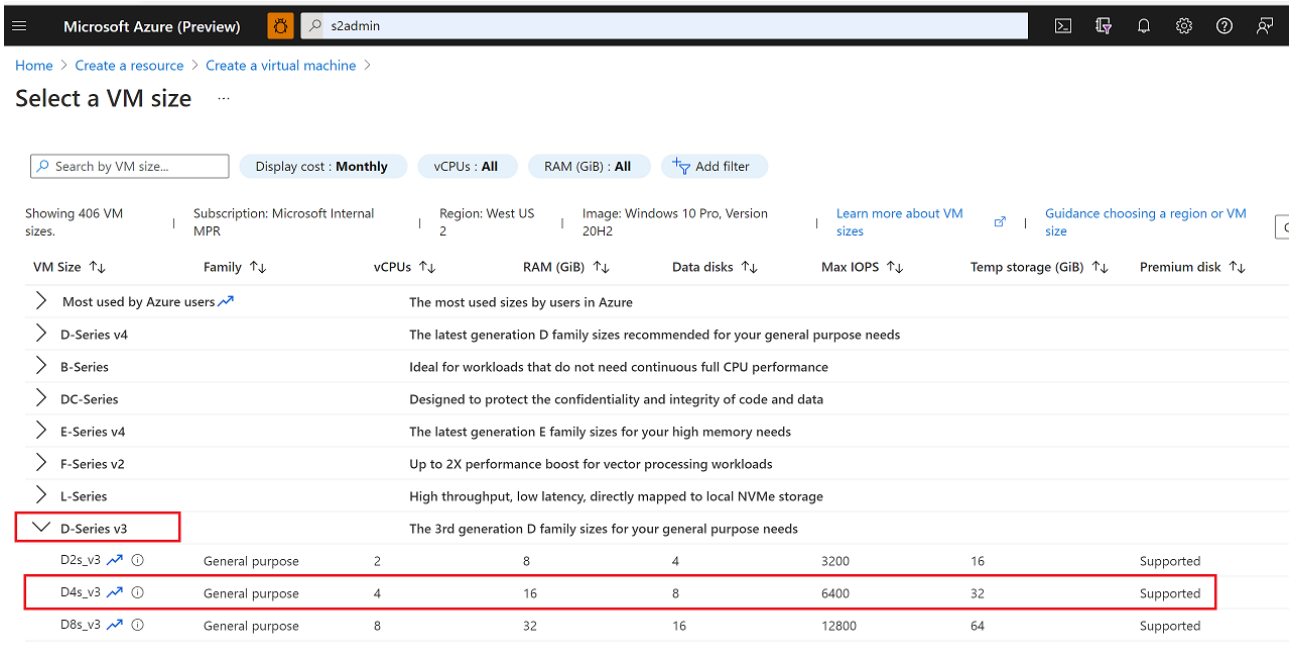


2. In **Create a virtual machine**, type or select the values in the **Basics** tab:

Setting	Value
Project Details	
Subscription	Select your Azure subscription
Resource Group	Select Your Resource Group
Instance details	
Virtual machine name	Enter **myofflinesensor**
Region	Select **(US) East US**
Availability Options	Select **No infrastructure redundancy required**
Image	Select **Windows 10 Pro, Version 20H2 - Gen2**
Azure Spot instance	Select **No**
Size	**D4s_v3 - 4 vcpus, 16 GiB memory**, see image below
Administrator Account	**Use the following Credentials**
Username	**ADefenderlab**
Password	**Learningmode123!**

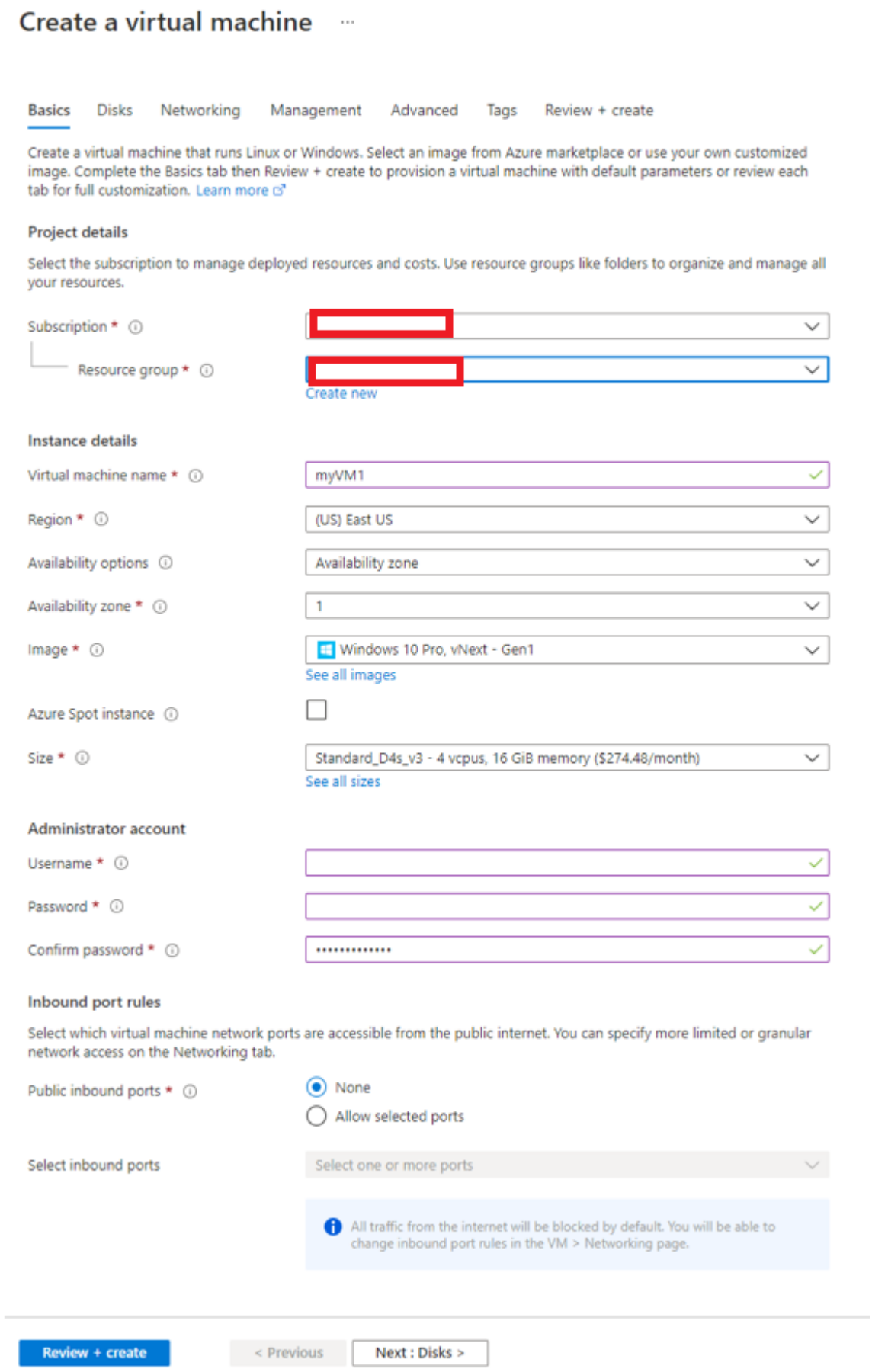
Setting	Value
Confirm password	**Learningmode123!**
Inbound port rules	
Public inbound ports	Select **3389**.
Licensing	
I confirm I have an eligible Windows 10 license with multi-tenant hosting rights.	**Check the box**.

3. In the Size section, select **See all Images**, look for the **D-Series v3** open that section, then you will find the right VM.

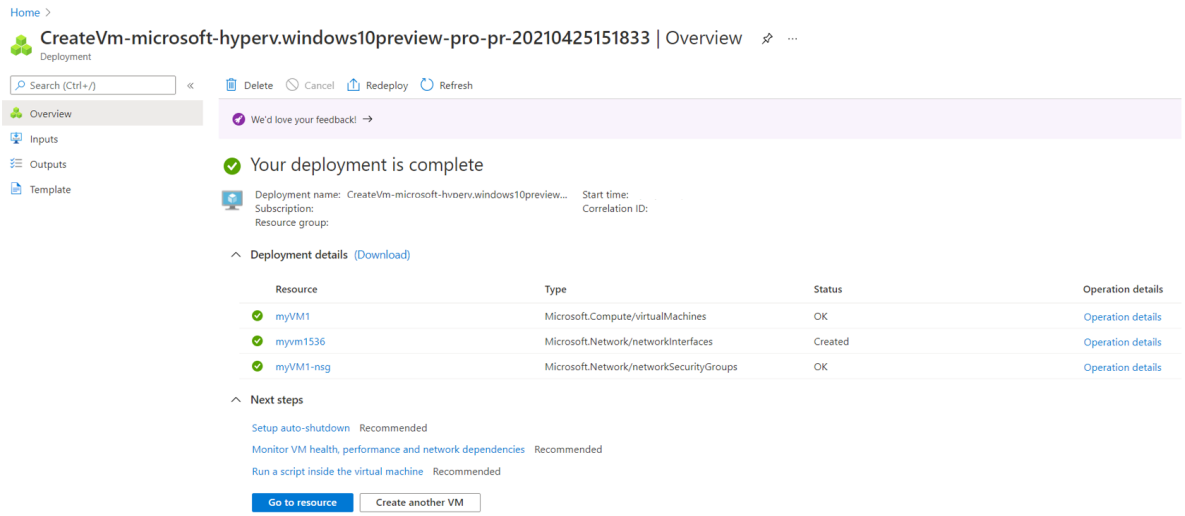


4. Go to the **Management**, in the **Monitoring** section, select **Disable** for **Boot Diagnostics**

5. At the bottom click on **Review + Create**. Once the validation is complete, select **Create**


Create a virtual machine
Basics
Disks
Networking
Management
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 *
Resource group *
Create new
Instance details
Virtual machine name *
myVM1
Region *
(US) East US
Availability options
Availability zone
Availability zone *
1
Image *
Windows 10 Pro, vNext - Gen1
See all images
Azure Spot instance
Size *
Standard_D4s_v3 - 4 vcpus, 16 GiB memory ($274.48/month)
See all sizes
Administrator account
Username *
Password *
Confirm password *
Inbound port rules
Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.
Public inbound ports *
None
Allow selected ports
Select inbound ports
Select one or more ports
All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.
Review + create
< Previous
Next : Disks >

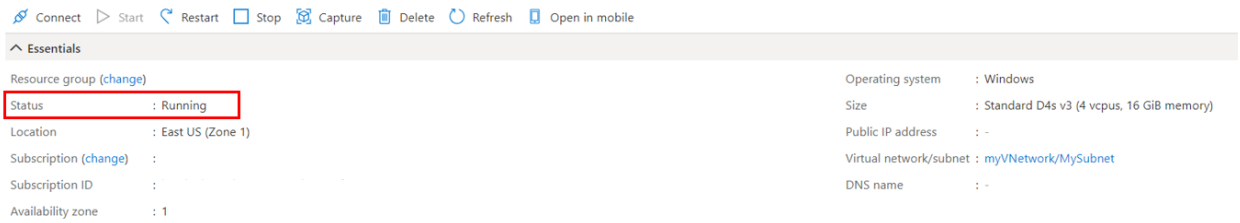
6. It will take a few minutes to deploy. At the end you should see your resources deployed.



Task 3: Connect to Virtual Machine

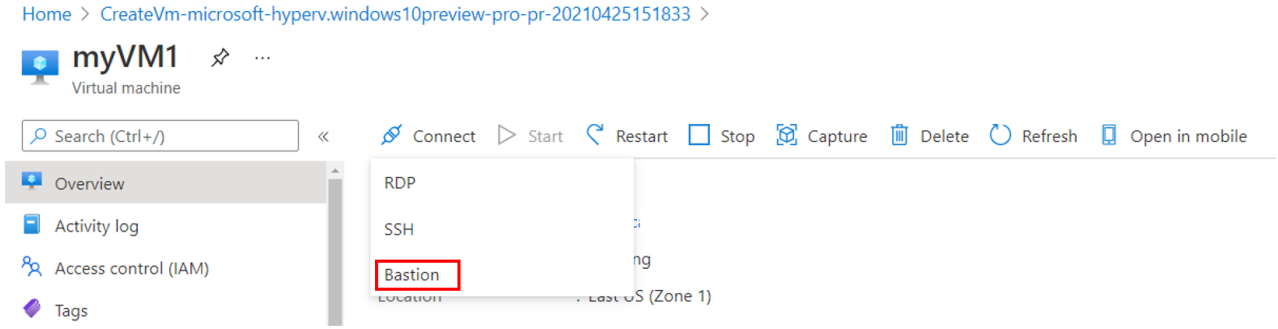
1. Navigate to the Azure Portal Home and select your newly created virtual machine.

2. Make sure that the Virtual Machine status is **Running**.

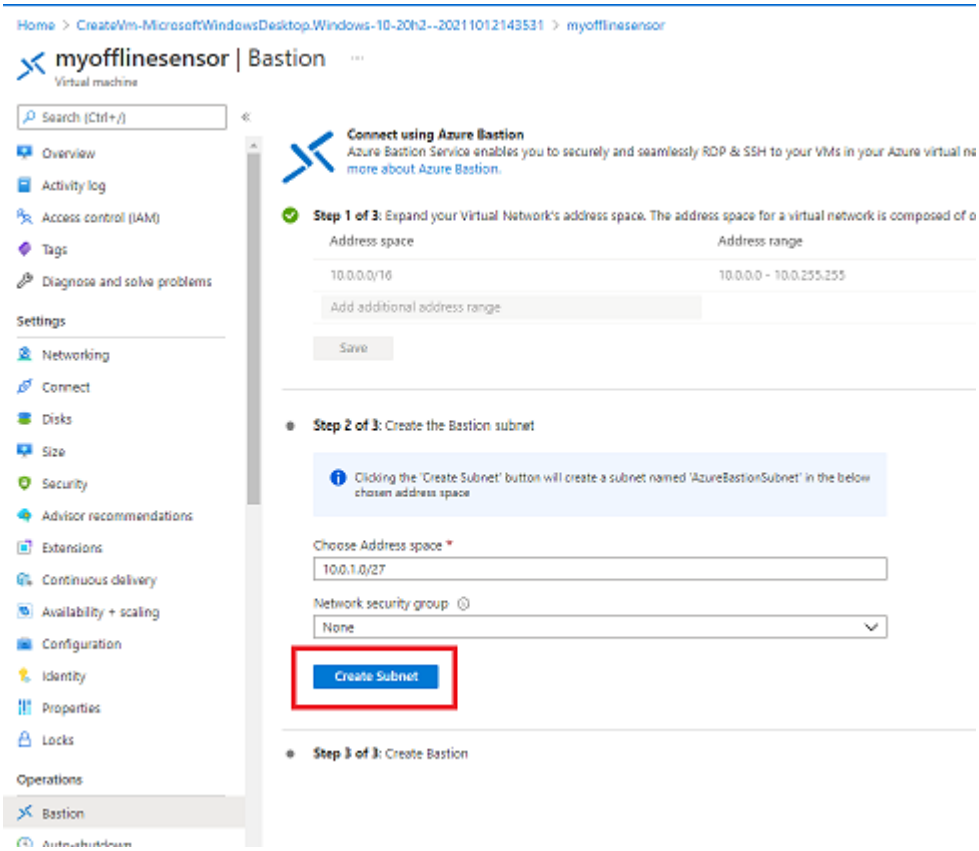


> [!TIP] You will not be able to connect if your Virtual Machines is not in **Running** status. So give it a minute or two to finish updating.

3. In the VM menu, select **Connect**, then select **Bastion** or **RDP**.



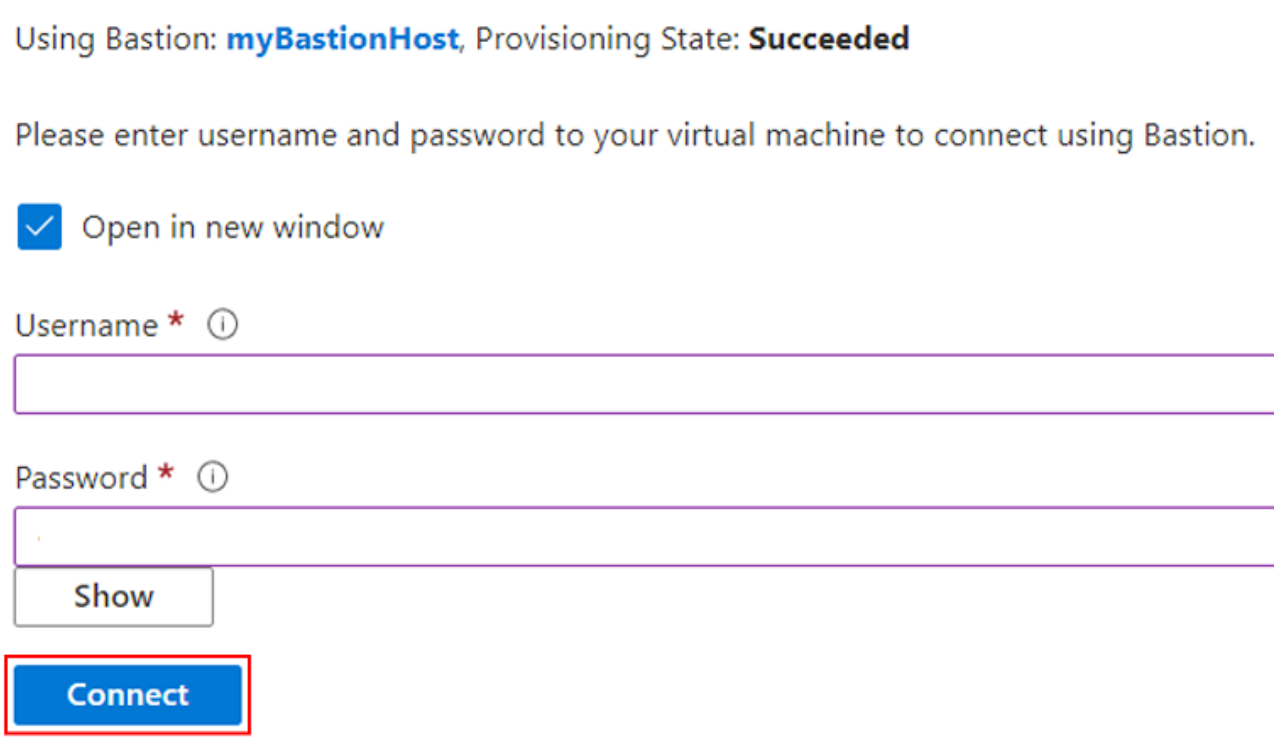
4. If you select **Bastion** you will be ask to set it up in 3 steps, **Step 1** it is completed, for **Step 2**, click on **Create Subnet**, after step 2 is completed, **Step 3** will set up a public ip, scroll down and click on **Create Azure Bastion using defaults**



After a few minutes you will be able to login

In the **Bastion** page, click on **Use Bastion** then enter the username and password for the virtual machine.

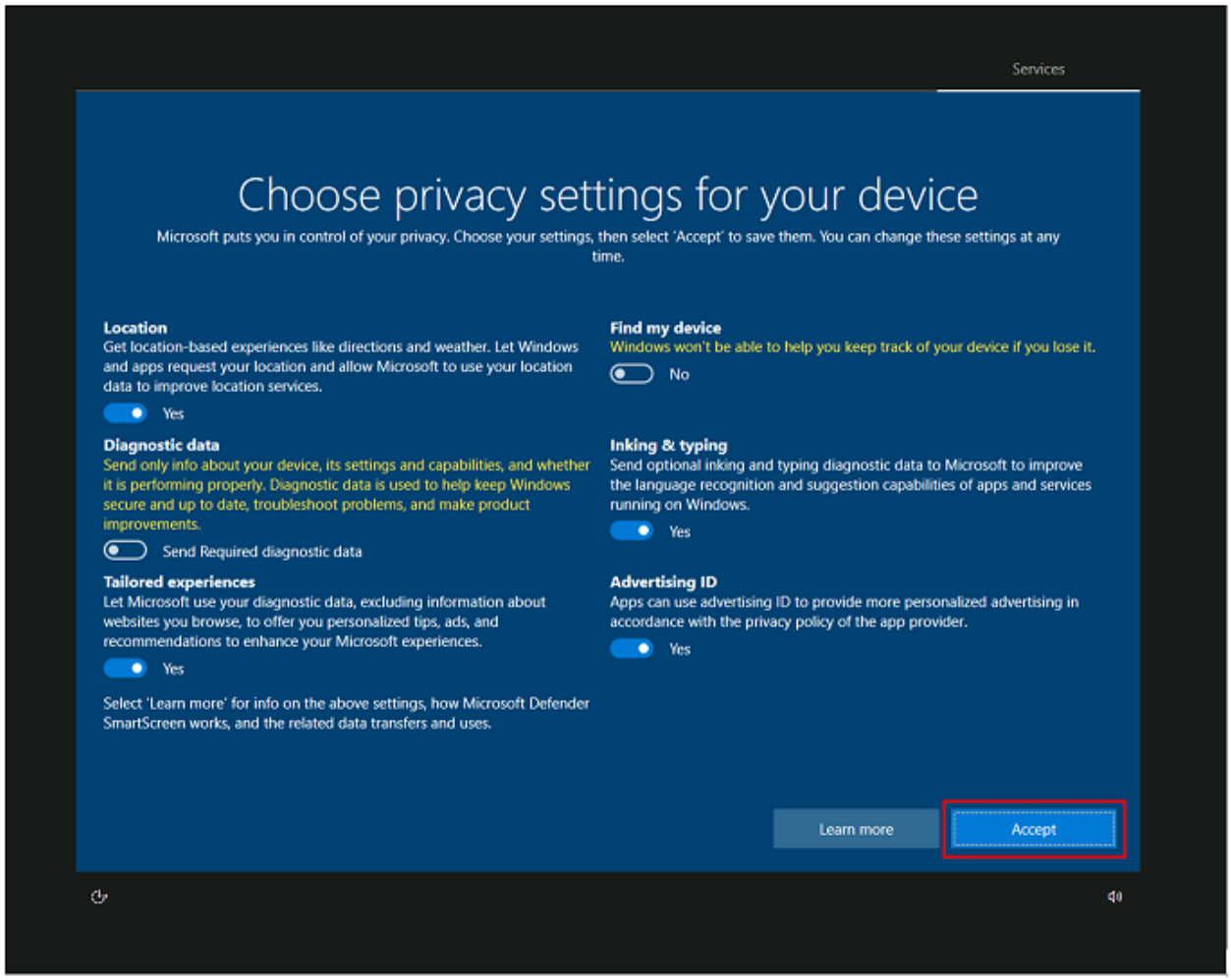
Field	Enter
Username	*ADefenderlab*
Password	*Learningmode123!*



5. Select **Connect**.

6. A new tab should open, and you should be connected to your virtual machine.

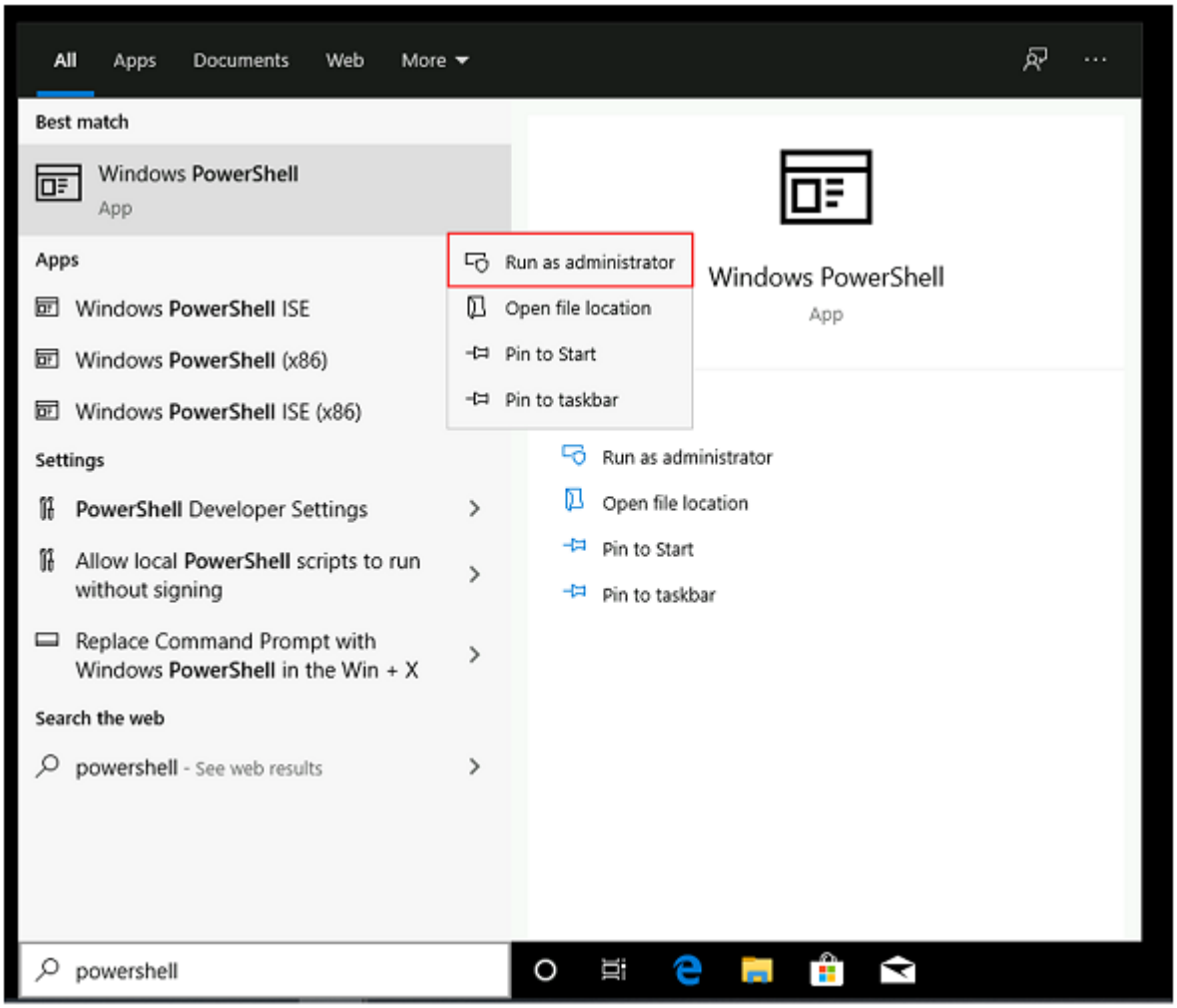
7. **Accept** the default settings.



Task 4: Enable Hyper-V

We are going to enable Hyper-V via PowerShell in the newly created VM.

1. Search for **PowerShell** and right click to select **Run as Administrator**.

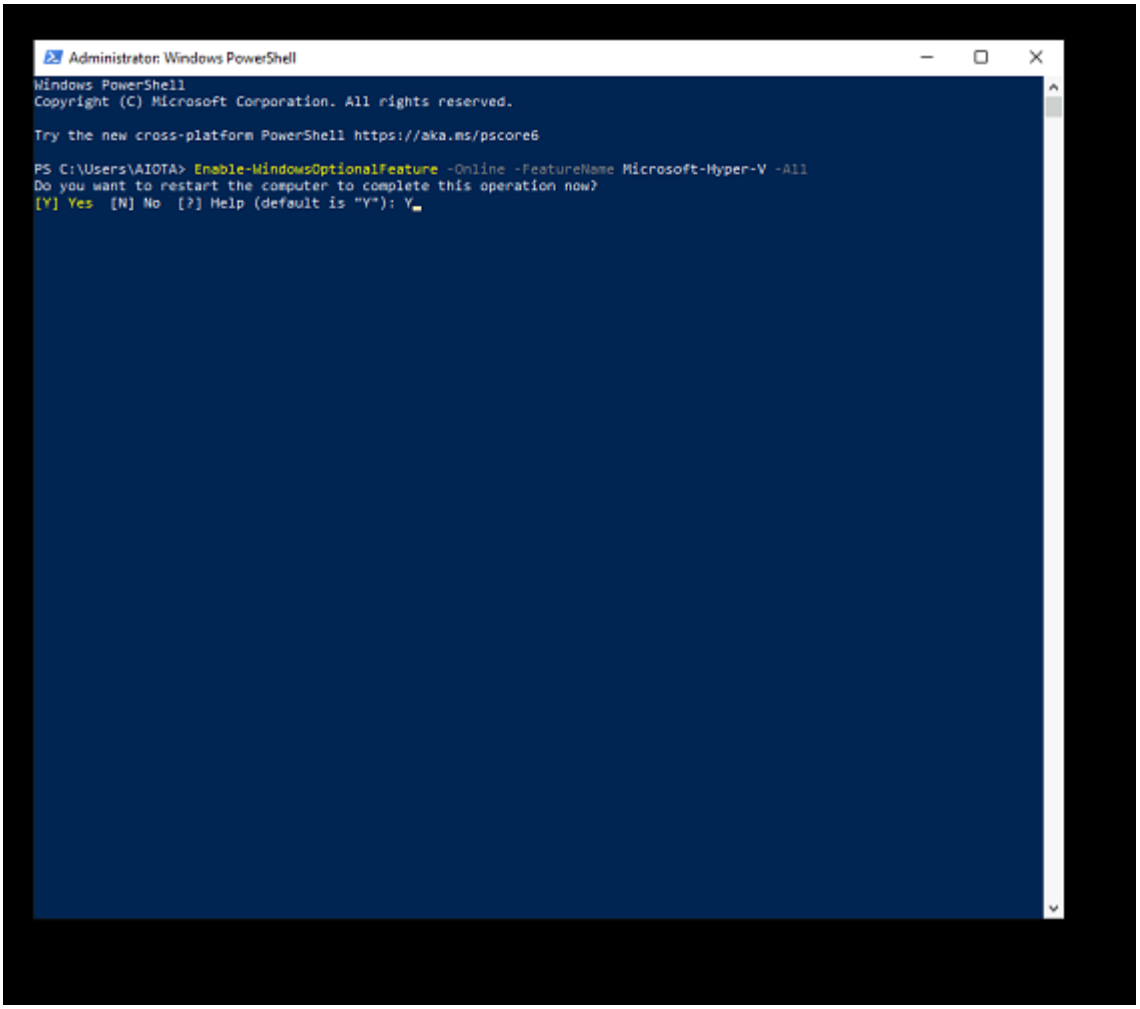


2. Run the following command:

```
Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -All
```

If the command couldn't be found, make sure you're running PowerShell as an **Administrator**.

3. When the installation has completed, reboot the VM by typing in **Y**.



4. Reconnect to the VM.

> [!NOTE] If you are not promoted to restart the VM within PowerShell. Please close the Bastion Host tab, and return to the Azure Portal, and select your VM. At this point you can either "restart your VM" and reconnect via Bastion. OR you can *STOP* the VM and *Start* the VM again.

5. Login back to the Virtual Machine, using RDP or Bastion, open **Microsoft Edge** and download the 'Storage Explorer' click **Download**.

6. Once the download is completed run the installation selecting **Install for me only (recommended)** option. Next, click on **I accept the agreement**, and **Install**, you will ask a few additional questions, select **Next** each time, the installation will run for a few seconds.

Task 5: Create a Storage Account

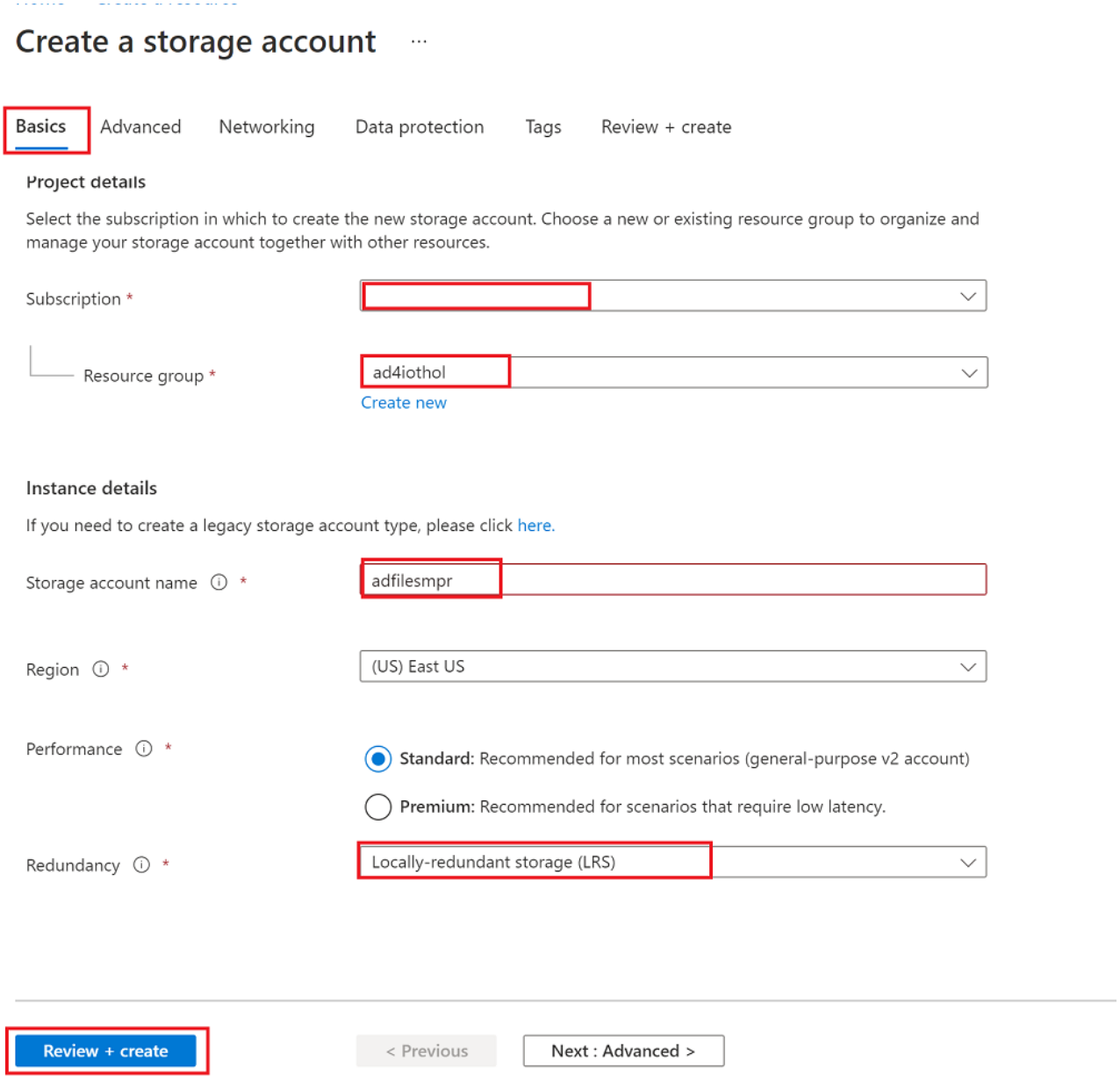
1. In Azure Portal, click on + **Create a Resource**. In the marketplace look for **Storage Account**, then click create.

2. Fill the form:

Basics Tab:

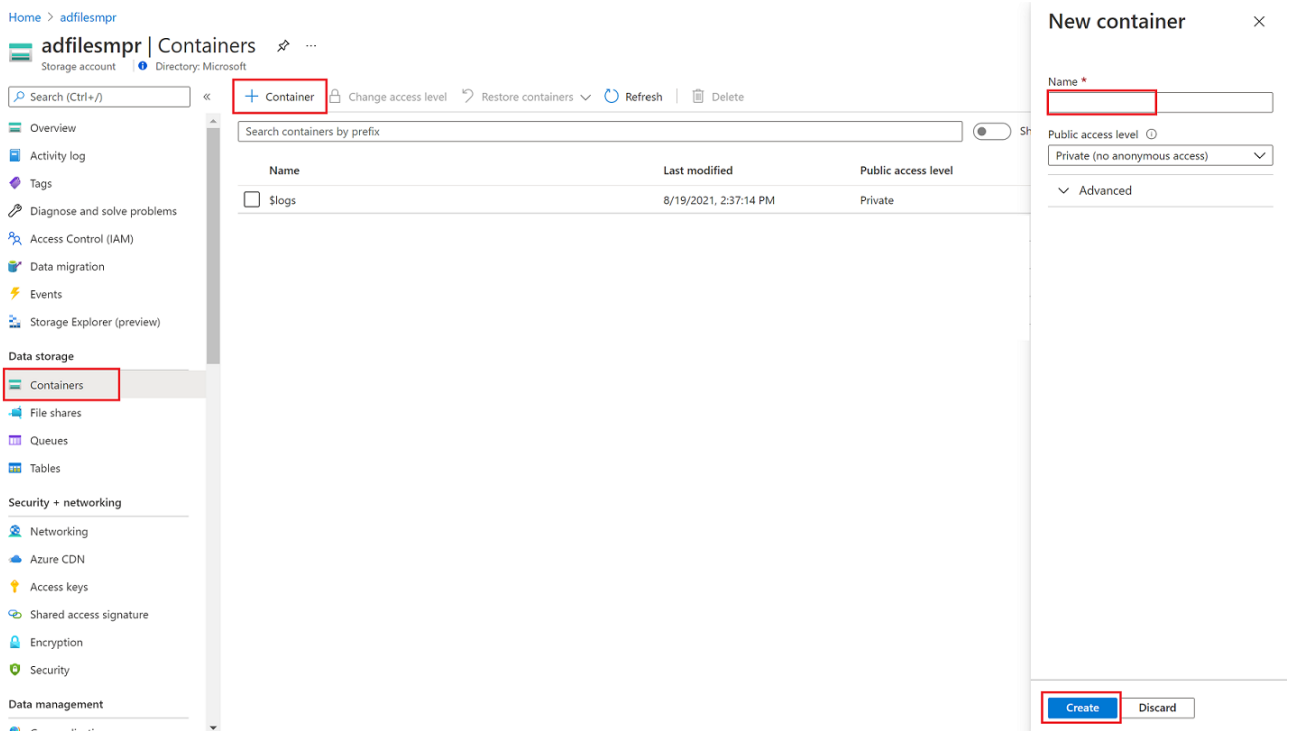
- **Subscriptions**: Select the subscription you are using for this workshop.
- **Resource Group**: Select the resource group created for this workshop in previous step.
- **Storage Account Name**: adfiles+Suffix.
- **Region**: East US
- **Redundancy**: Locally-redundant storage(LRS)

Then **Review + Create** after the validation is complete, click **Create**

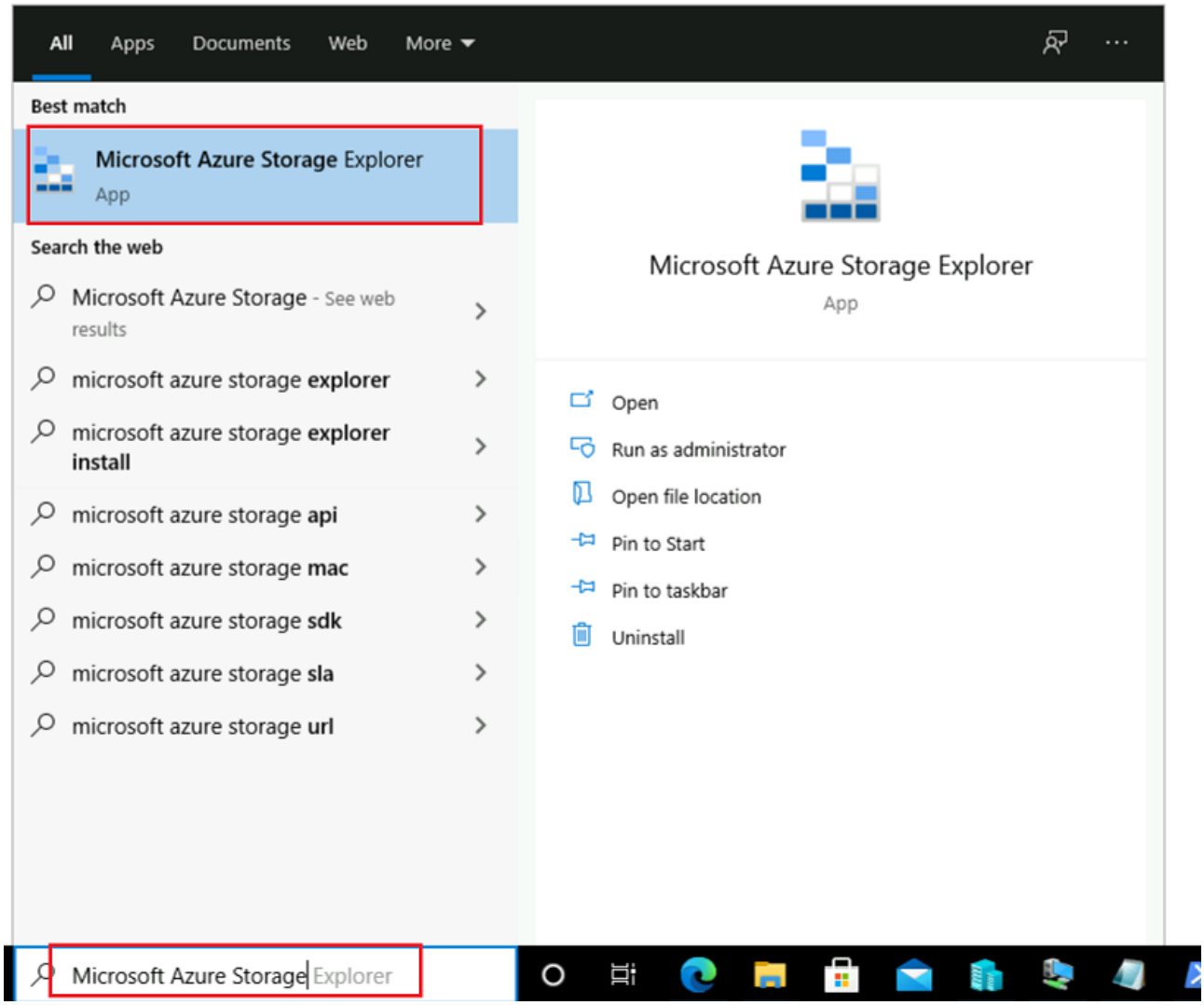


3. Once the Storage account is created, click on it. Under **Data Storage** select **Containers**, then on the right side select **+ Container**.

4. A new window will open on the right, assign a name **acitvationfiles** and then click **Create**.

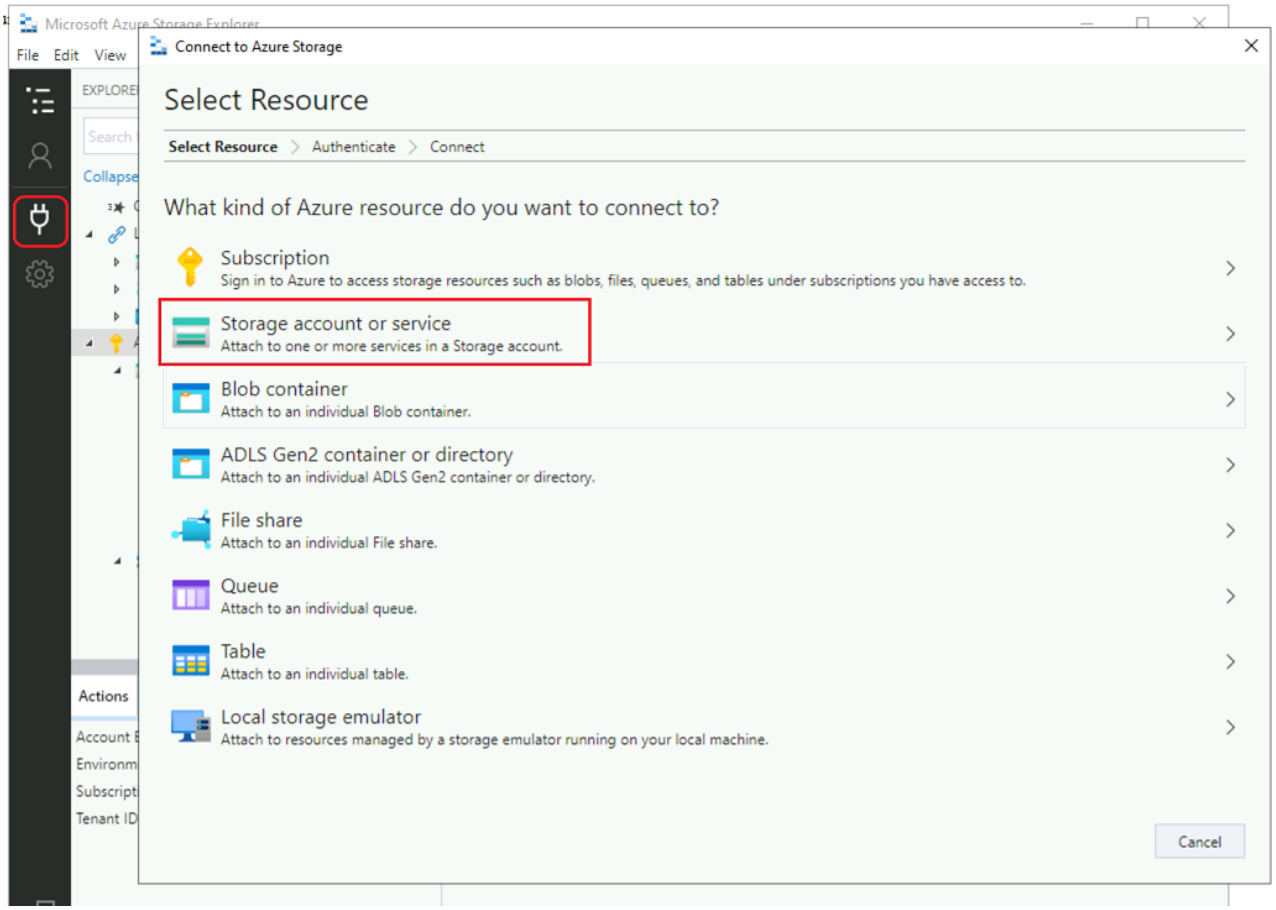


5. Login to the Windows virtual machine, in the search box enter Microsoft Storage Explorer

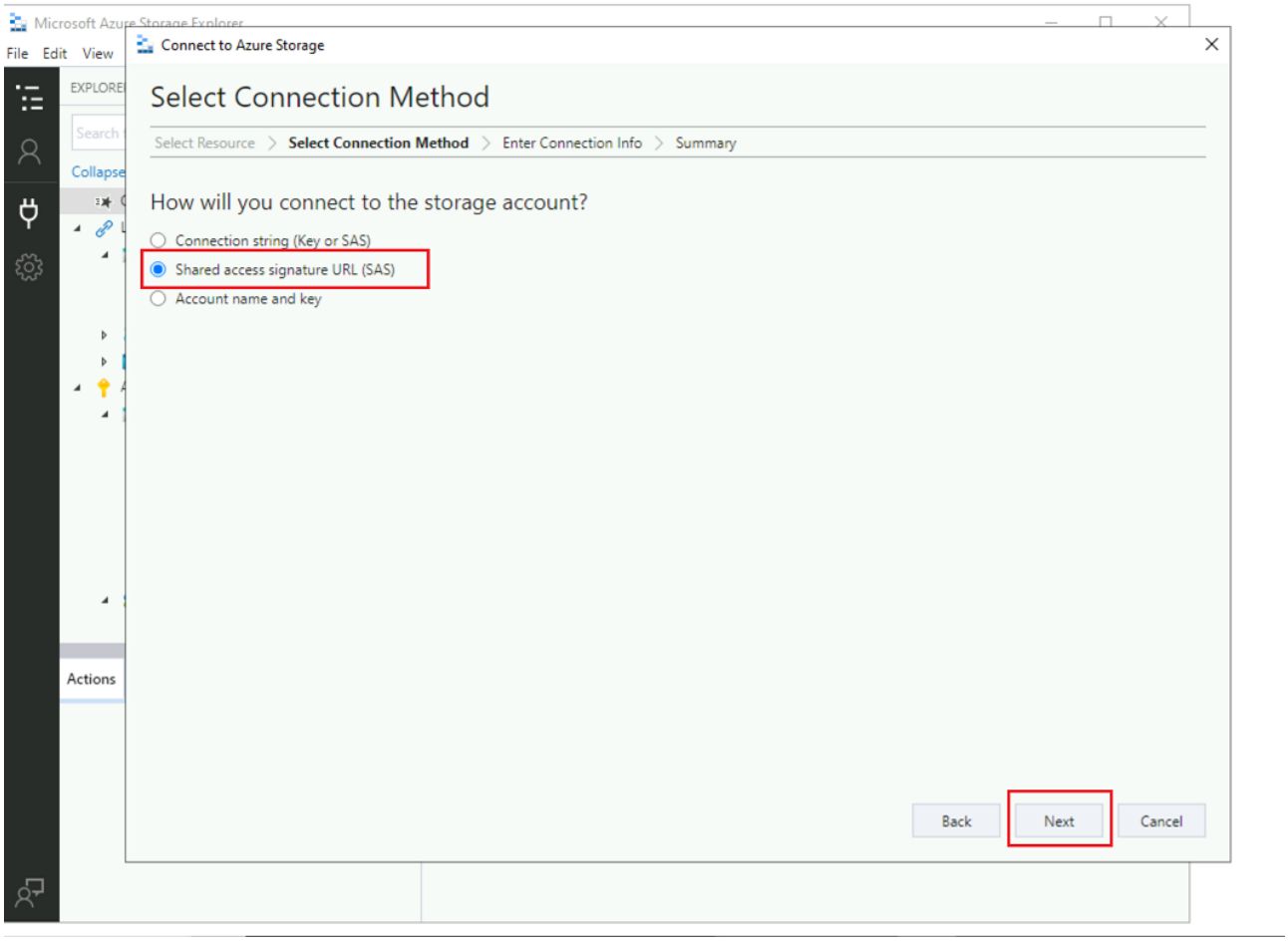


6. You will be prompt to login, use the personal email you are using to set up your Azure Pass for this training.

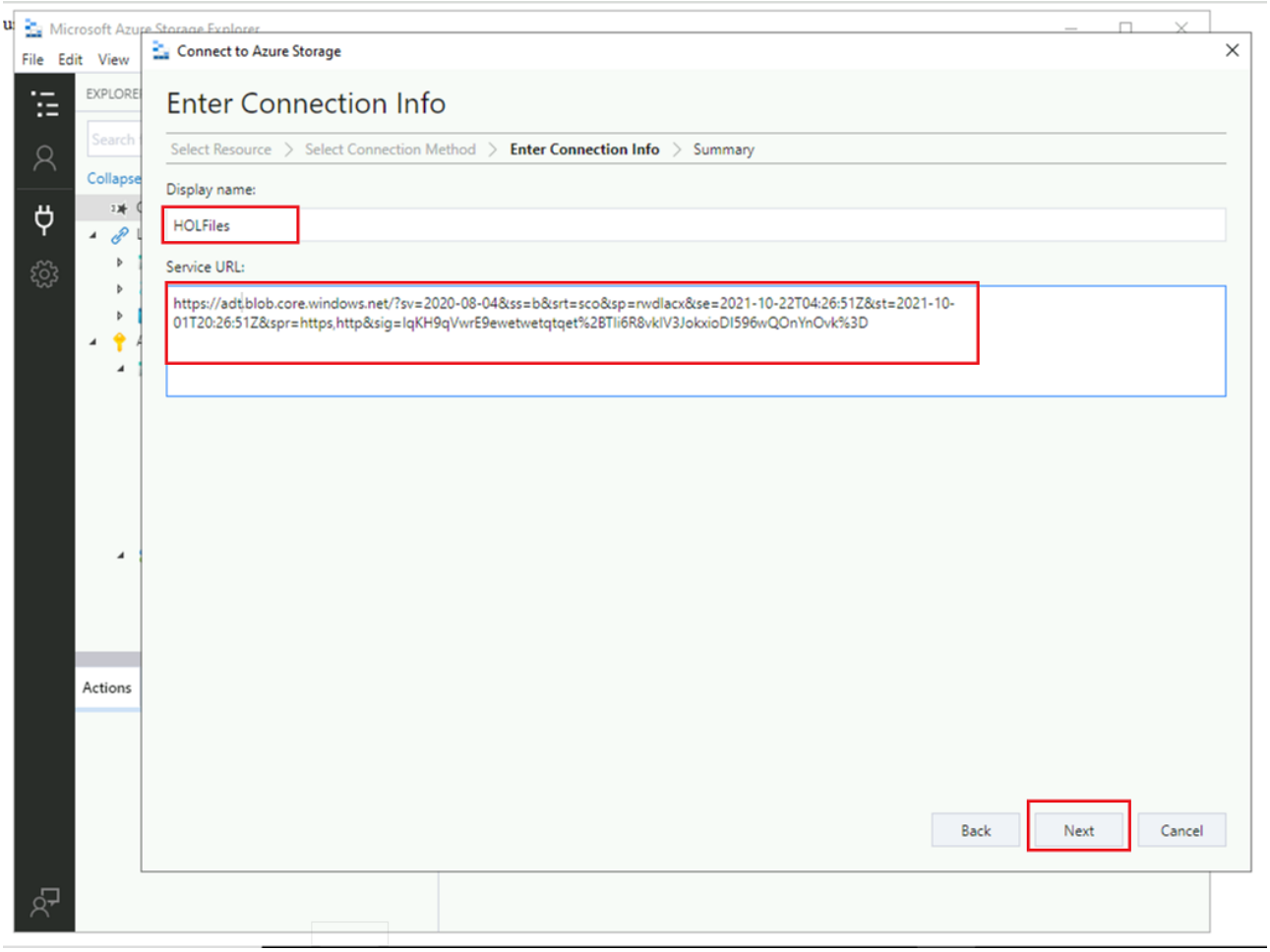
7. Once you are login, go to the connect icon on the left bar, then select **Storage account or service**.



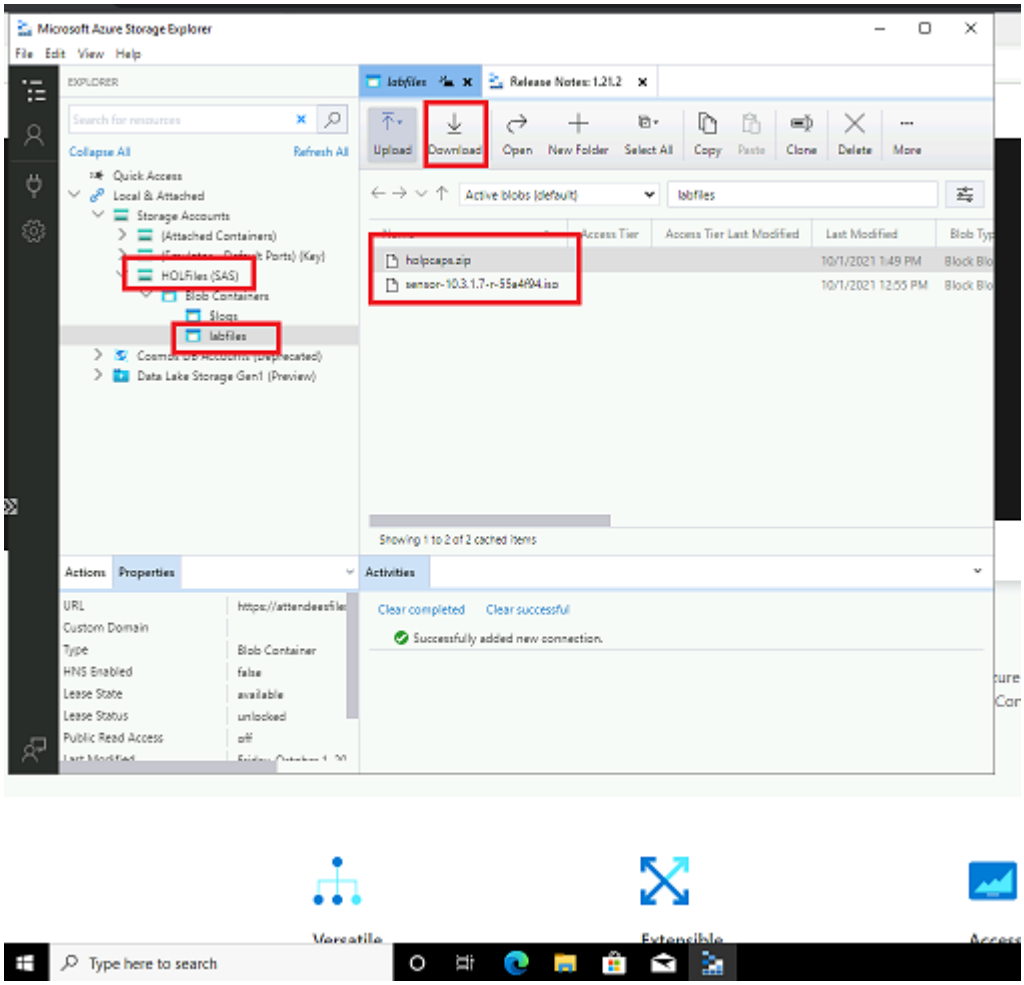
9. In the next step select **Shared Access Signature URL(SAS)** and then **Next**



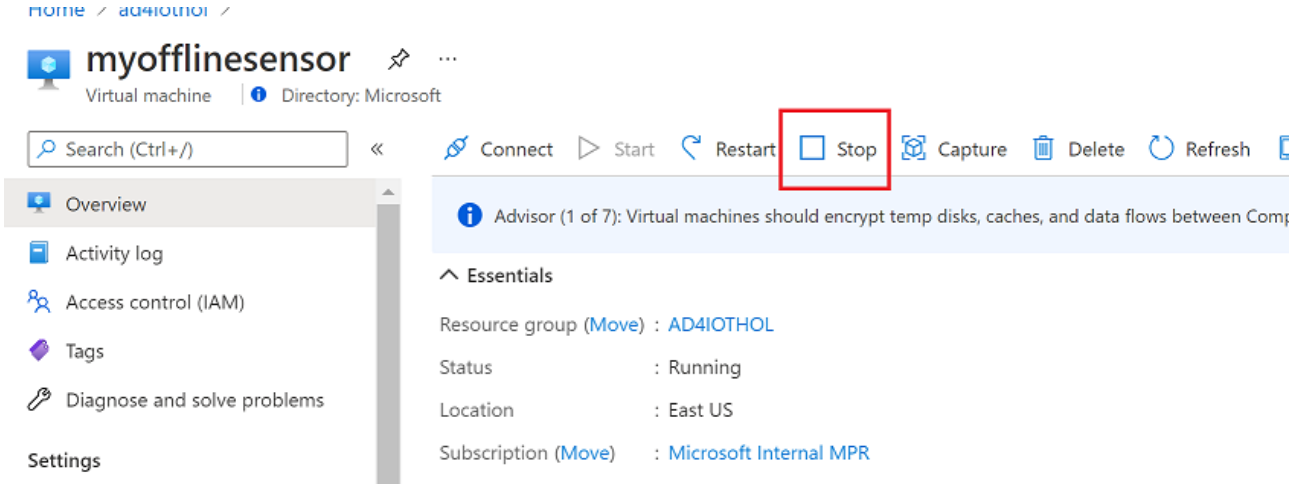
10. In the Enter Connection Info window, you wil assign a name to the connection **HOLFiles** and you will paste below the Blob SAS URL (service URL) you received by email previous to this training.



11. Once the storage account is connected you should select the container on the left side **attendeefiles** then **Labfiles** now in the right side you will see the two files you need to download locally. Select the files and click **Download**

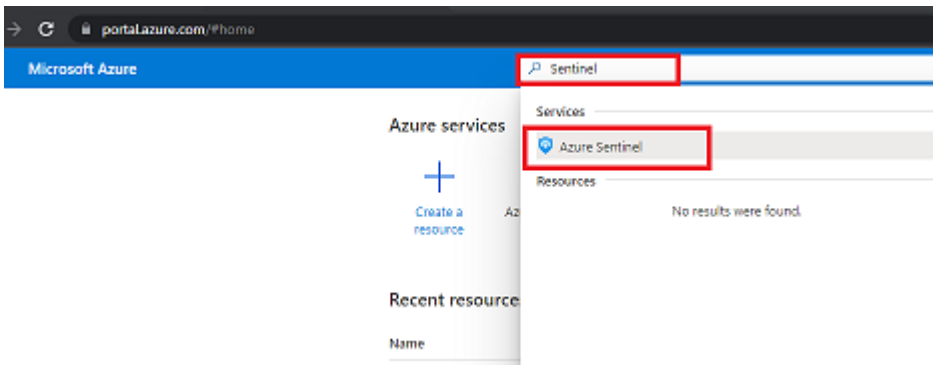


12. Once this download is complete, go to the Azure Portal select your Virtual Machine and click **Stop**. Now you are all set for your training session.

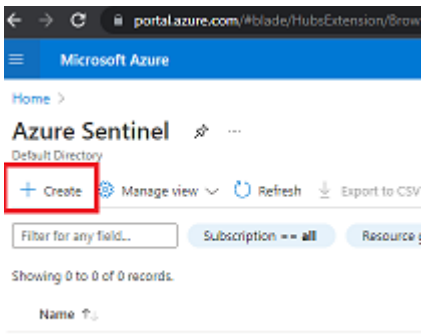


Task 6: Azure Sentinel

1. Go to Azure Portal, in the top search box, type **Azure Sentinel**, then select it from the list.

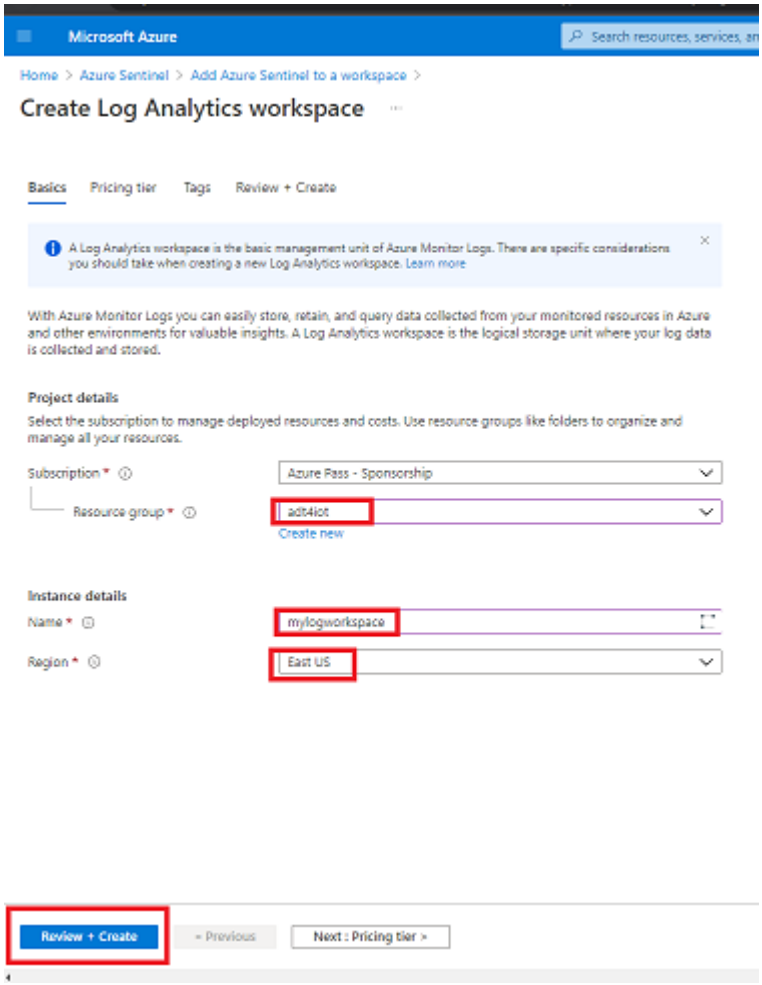


2. Then, click **Create**, a new pop up window appears, select + **Create a new workspace**



3. In the new window, fill the form with the following data:
    - **Subscription**: Select the subscription you are using for this training.

- **Resource Group**: select the resource group you created previously.
- **Name**: Mylogworkspace+SUFFIX
- **Regions**: East US



4. Click **Review and create**, after validation is completed, click **create**

You have completed all your pre-work tasks before attending the Hands-on Lab! Please make sure your Virtual Machine is **STOP** until the training date, otherwise you will consume your Azure Credit before the training.