Azure Activities 1

Activities

1-8: Creating a Free Microsoft Azure Account

Time Required: 15 minutes

Objective: Create a free Microsoft Azure account to use with the labs in this book.

Required Tools and Equipment: Any computer with Internet access

Description: Create a free Microsoft Azure account. If you are not creating a free student account, you will need to submit credit card information to verify your identity. Note that your credit card will not be charged unless you exceed your free credits and choose to continue using Azure with a pay-as-you-go account.

1. Open a web browser and go to https://azure.microsoft.com/en-in/pricing/offers/ms-azr-0170p
2. Click **Start free**; you will be prompted to sign into Microsoft. If you don't already have a Microsoft account, you need to create one. Sign in with your student email address. You may be prompted to enter your student credentials or verify your student status.
3. Once signed in, you will be in the Azure portal. Access the available tasks by clicking the menu icon near the upper-left corner of the browser window,

NOTE: It's easy to get lost in the Azure portal. You may want to bookmark the education page so you can return to it easily if desired. You can also follow this link: https://portal.azure.com/#blade/Microsoft_Azure_Education/

1. Click Dashboard to see a summary of resources in use. If you are using a new account, you will see a list of tutorials for working with virtual machines, services, and databases.

2. Click the back button on your browser to return to the portal home page.
3. Explore the Azure portal; you will be using it in the next activity. When you are finished, continue to the next activity, where you create an Azure VM.

1-9: Creating an Azure Windows Server 2022 VM

Time Required: 30 minutes

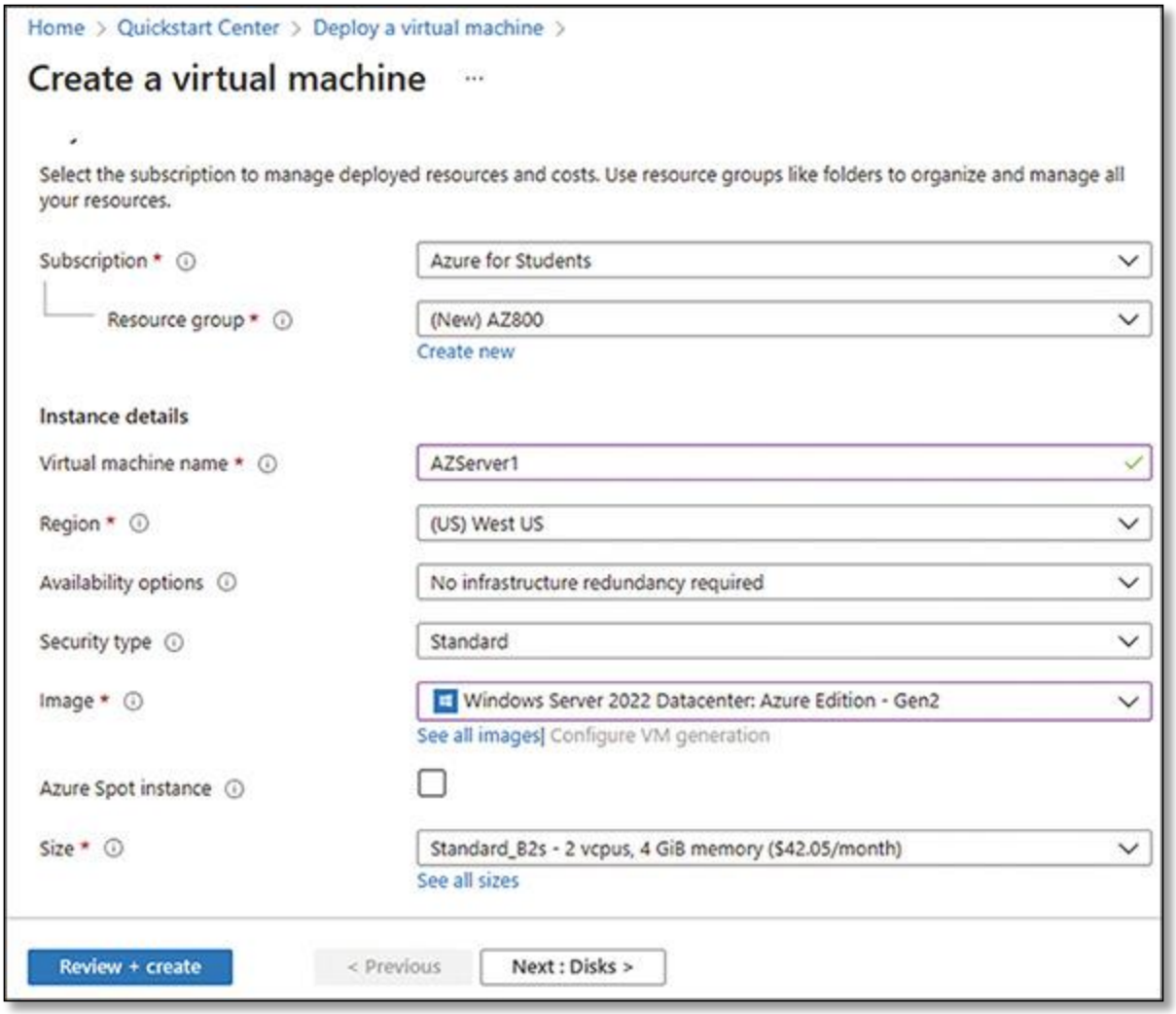
Objective: Create an Azure Windows Server 2022 virtual machine.

Required Tools and Equipment: Any computer with Internet access

Description: In this activity, you create an Azure VM with Windows Server 2022 Datacenter installed. You will access the server using RDP.

1. Open a web browser, go to portal.azure.com Sign in with your wncc.edu account. You can apply for an "Azure for Students" education subscription.
2. Click Quickstart Center under Azure Services.
3. In the Deploy a virtual machine box, click Start.
4. In the Create a Windows virtual machine window, click Create.

You see the Create a virtual machine page. If you have more than one Azure subscription, be sure the one you want to use is shown in the Subscription box. The subscription should be an "Azure for Students" education subscription as shown below.



5. Under the Resource group box, click **Create new** to create a resource group. Resource groups are collections of resources that share permissions and policies. All the resources you create in these activities will likely go under the same resource group.
6. Name the resource group **AZ800**
7. In the Virtual machine name box, type **AZServer1**. Select the appropriate region for your location. Leave the next two options at their default settings.
8. In the Image box, click **See all images**, then click **Select** in the Windows Server box. Finally, click the down arrow and click [smalldisk] Windows Server 2022 Datacenter: Azure Edition – Gen2. The smalldisk option uses a disk for the OS that is smaller and will save on storage costs.
9. Under the Size box, click **See all sizes**, click **B2s** in the list, and click **Select**.

10. In the username box, type the username you want to use to sign in to your VM, along with a password that you will remember. The password must be at least 12 characters and must contain three uppercase characters, three lowercase characters, three numbers, and three special characters.
    NOTE: Write down your password!
11. Accept the defaults for Inbound port rules. Under licensing, click the check box if you have an existing license you can use. If you have a student account, you are granted free licenses for Windows Server 2022 under the software download section. If you're not sure what to do here, ask your instructor.
12. Accept the defaults for Inbound port rules.
13. Under licensing, click the check box if you have an existing license you can use. If you have a student account, you are granted free licenses for Windows Server 2022 under the software download section.
14. Click **Next : Disks** > to move on to the disk configuration page.
15. In the OS disk type box, click the down arrow and select **Standard HDD**.
16. Review the other options and click **Next : Networking >**
17. On the networking page, accept the defaults and click **Next : Management >**.
18. On the management page, scroll down and click to select **Enable auto-shutdown**. Choose an appropriate time and time zone for your VM to be automatically shut down. It is best to pick a time during which you are unlikely to be working with the VM. Remember, you should always shut down your VM when you are done working with it, so this option is useful in case you forget.
19. Enter an email address for notification when your VM is about to be shut down.
20. At this point, you are finished making changes. However, if you like, you can click through the Advanced and Tags screens to see the available options. When you are finished, click **Review + create**.
21. On the **Review + Create** page, you are shown a summary of the cost of the VM and the options you chose. Click **Create** after reviewing the information.
22. The next page shows the progress of your deployment. When your VM is deployed, you'll see a button labeled Go to resource. Click **Go to resource**.
23. You are now on the AZServer1 Overview page. You'll see the status of the VM, its IP address, and other configuration information. The VM is not yet ready to be

accessed. You'll probably see a message like the one in Figure 1-26 indicating that the virtual machine agent status is not ready. Click Refresh periodically to see the current status. After the message disappears, you're ready to connect to your VM. It may take quite a while before your VM is ready to access. When it is ready to access, go to the next step.

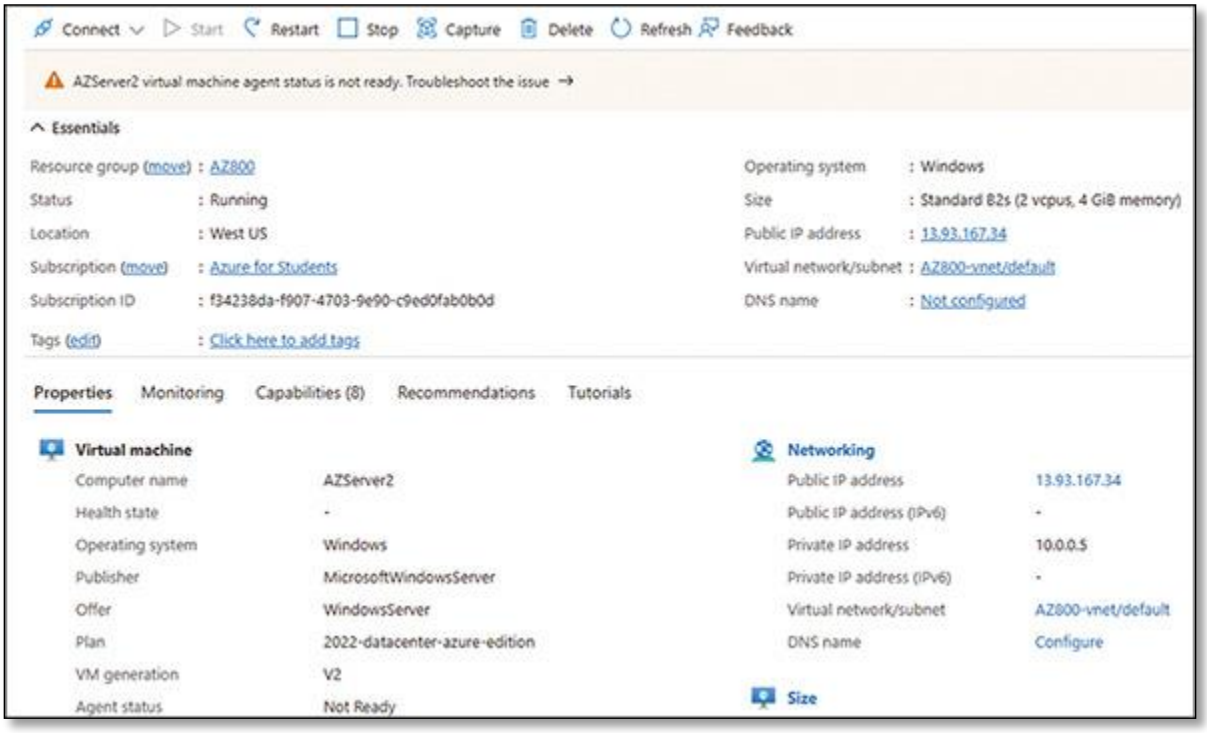
24. From your **AZServer1**'s Overview page, make sure your VM is running. If it isn't, click the Start button at the top of the page.

25. Click Connect and click RDP. Accept the defaults and click Download RDP File.

26. Double-click the downloaded RDP file. When prompted, enter your username and password (click Remember me so you don't need to enter your username in the future) and click OK.

27. Click Yes when you see the certificate warning. You will see your server desktop after a short time. Congratulations, you've successfully created and accessed an Azure VM!

28. Explore your server. When you finish, shut down the server.



29. You might be prompted to save your public IP address. While it is convenient to do so, it is an extra charge.

Assignment Submission

1. Attach a screenshot to the assignment showing your VM Status page.