01 - Create a virtual machine in the portal

In this walkthrough, we will create a virtual machine in the Azure portal, connect to the virtual machine, install the web server role and test.

Note: Take time during this walk-through to click and read the Informational icons.

Task 1: Create the virtual machine (10 min)

In this task, we will create a Windows Server 2019 Datacenter - Gen1 virtual machine.

- 1. Sign in to the Azure portal (https://portal.azure.com).
- 2. From the **All services** blade, search for and select **Virtual machines**, and then click **+ Add** and choose **+Virtual machine**.
- 3. On the **Basics** tab, fill in the following information (leave the defaults for everything else):

Settings	Values
Subscription	Choose your subscription
Resource group	myRGVM (create new)
Virtual machine name	myVm
Location	(US) East US
Image	Windows Server 2019 Datacenter - Gen1
Size	Standard D2s v3
Administrator account username	azureuser
Administrator account password	Pa\$\$w0rd1234
Inbound port rules - Allow select ports	RDP (3389) and HTTP (80)

4. Switch to the Networking tab, and look for the **Select inbound ports**:

Settings	Values
Select inbound ports	HTTP (80), RDP (3389)

Note - Verify that both port 80 and 3389 are selected

5. Switch to the Management tab, and in its **Monitoring** section, select the following setting:

Settings	Values
Boot diagnostics	Disable

- 6. Leave the remaining defaults and then click the **Review + create** button at the bottom of the page.
- 7. Once Validation is passed click the **Create** button. It can take anywhere from five to seven minutes to deploy the virtual machine.
- 8. You will receive updates on the deployment page and via the **Notifications** area (the bell icon in the top menu).

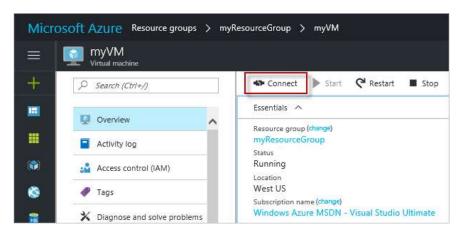
Task 2: Connect to the virtual machine

In this task, we will connect to our new virtual machine using RDP.

1. Search for **myVM** and select your new virtual machine.

Note: You could also use the **Go to resource l**ink on the deployment page or the link to the resource in the **Notification** area.

2. On the virtual machine **Overview** blade, click the **Connect** button and choose **RDP**.

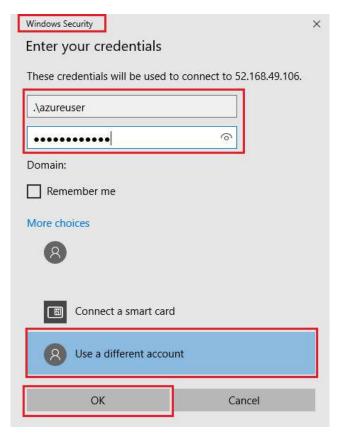


Note: The following directions tell you how to connect to your VM from a Windows computer. On a Mac, you need an RDP client such as this Remote Desktop Client from the Mac App Store and on a Linux computer you can use an open source RDP client.

- 3. In the **Connect to virtual machine** page, keep the default options to connect with the public IP address over port 3389 and click **Download RDP File**.
- 4. Open the downloaded RDP file and click Connect when prompted.



5. In the **Windows Security** window, select **More choices** and then **Use a different account**. Provide the username (.\azureuser) and the password (Pa\$\$w0rd1234). Click **OK** to connect.



6. You may receive a certificate warning during the sign-in process. Click **Yes** or to create the connection and connect to your deployed VM. You should connect successfully.



Congratulations! You have deployed and connected to a Windows Server virtual machine in Azure

Task 3: Install the web server role and test

In this task, install the Web Server role on the server and ensure the default IIS welcome page can be displayed.

 Open up a PowerShell command prompt on the virtual machine, by clicking the **Start** button, typing **PowerShell**, right clicking **Windows PowerShell**, and selecting **Run as administrator** in the right-click menu.



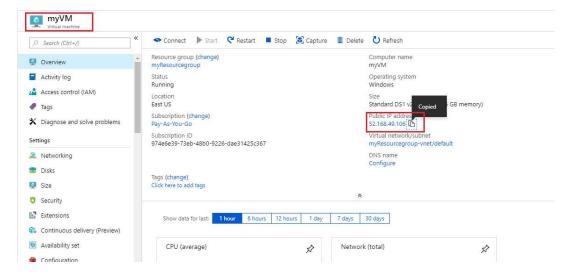
2. Install the **Web-Server** feature in the virtual machine by running the following command in the PowerShell command prompt. You can copy and paste this command.



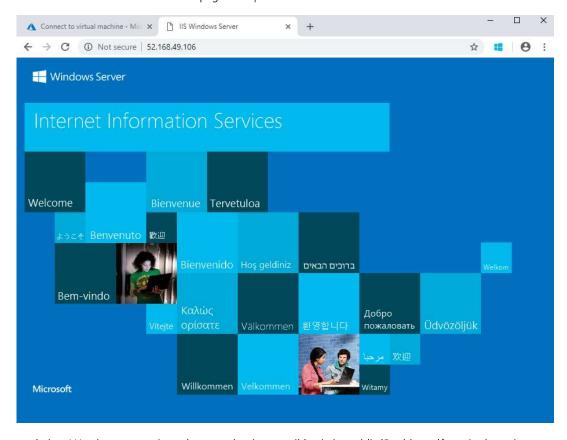
3. When completed there will be a prompt stating **Success** with a value **True**. You do not need to restart the virtual machine to complete the installation. Close the RDP connection to the VM.

4. Back in the portal, navigate back to the **Overview** blade of myVM and, use the **Click to clipboard** button to copy the public IP address of myVM, open a new browser tab, paste the public IP address into the URL text box, and press the **Enter** key to browse to it.

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5. The default IIS Web Server welcome page will open.



Congratulations! You have created a web server that is accessible via its public IP address. If you had a web application to host, you could deploy application files to the virtual machine and host them for public access on the deployed virtual machine.

Note: To avoid additional costs, you can remove this resource group. Search for resource groups, click your resource group, and then click **Delete resource group**. Verify the name of the resource group and then click **Delete**. Monitor the **Notifications** to see verify that the deletion completed successfully.