10 - Create a VM with PowerShell (10 min)

In this walk-through, we will configure the Cloud Shell, use Azure PowerShell module to create a resource group and virtual machine, and review Azure Advisor recommendations.

Task 1: Configure the Cloud Shell

In this task, we will configure Cloud Shell.

- 1. Sign in to the <u>Azure portal</u>.** You can find your login credentials within the resources tab (directly next to this Instructions tab!) **
- 2. From the Azure portal, open the **Azure Cloud Shell** by clicking on the icon in the top right of the Azure Portal.



- 3. When prompted to select either Bash or PowerShell, select PowerShell.
- 4. On the **You have no storage mounted** screen select **Show advanced settings** then fill in the information below



5. Select Create Storage

Task 2: Create a resource group and virtual machine

In this task, we will use PowerShell to create a resource group and a virtual machine.

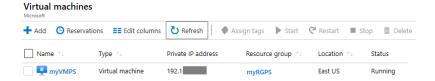
- 1. Ensure **PowerShell** is selected in the upper-left drop-down menu of the Cloud Shell pane.
- 2. Verify your new resource group by running the following command in the Powershell window. Press **Enter** to run the command.



3. Create a virtual machine by pasting the following command into the terminal window.

```
New-AzVm `
-ResourceGroupName "myRGPS" `
-Name "myVMPS" `
-Location "East US" `
-VirtualNetworkName "myVnetPS" `
-SubnetName "mySubnetPS" `
-SecurityGroupName "myNSGPS" `
-PublicIpAddressName "myPublicIpPS"
```

- 4. When prompted provide the username (azureuser) and the password (Pa\$\$w0rd1234) that will be configured as the local Administrator account on that virtual machines.azureadmin
- 5. Once VM is created, close the PowerShell session Cloud Shell pane.
- 6. In the Azure portal, search for **Virtual machines** and verify the **myVMPS** is running. This may take a few minutes.



7. Access the new virtual machine and review the Overview and Networking settings to verify your information was correctly deployed.

Task 3: Execute commands in the Cloud Shell

In this task, we will practice executing PowerShell commands from the Cloud Shell.

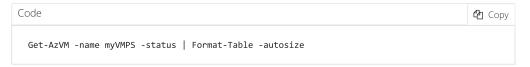
- 1. From the Azure portal, open the **Azure Cloud Shell** by clicking on the icon in the top right of the Azure Portal.
- 2. Ensure PowerShell is selected in the upper-left drop-down menu of the Cloud Shell pane.
- 3. Retrieve information about your virtual machine including name, resource group, location, and status. Notice the PowerState is **running**.



4. Stop the virtual machine using the following command.



- 5. When prompted confirm (Yes) to the action. Wait for **Succeeded** status.
- 6. Verify your virtual machine state. The PowerState should now be **deallocated**. You can also verify the virtual machine status in the portal. Close Cloudshell.

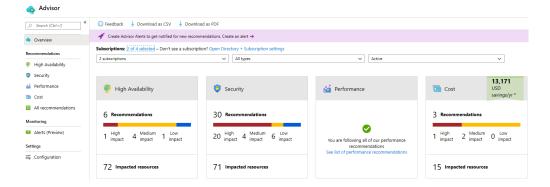


Task 4: Review Azure Advisor Recommendations

Note: This same task is in the Create a VM with Azure CLI lab.

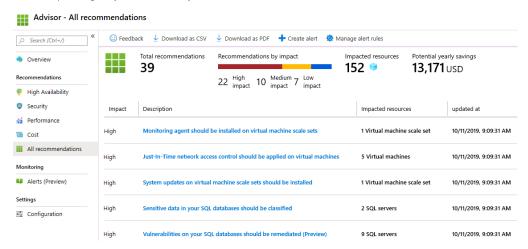
In this task, we will review Azure Advisor recommendations for our virtual machine.

- 1. From the All services blade, search for and select Advisor.
- On the Advisor blade, select Overview. Notice recommendations are grouped by Reliability, Security, Performance, and Cost.



3. Select All recommendations and take time to view each recommendation and suggested actions.

Note: Depending on your resources, your recommendations will be different.



- 4. Notice that you can download the recommendations as a CSV or PDF file.
- 5. Notice that you can create alerts.
- 6. If you have time, continue to experiment with Azure PowerShell.

Congratulations! You have configured Cloud Shell, created a virtual machine using PowerShell, practiced with PowerShell commands, and viewed Advisor recommendations.

Note: To avoid additional costs, you can optionally 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 how the delete is proceeding.