

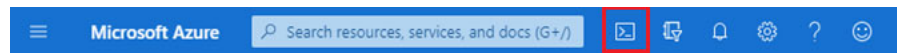
11 - Create a VM with the CLI (10 min)

In this walk-through, we will configure the Cloud Shell, use Azure CLI 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, then use Azure CLI to create a resource group and a virtual machine.

1. Sign in to the [Azure portal](#).
2. From the Azure portal, open the **Azure Cloud Shell** by clicking on the icon in the top right of the Azure Portal.

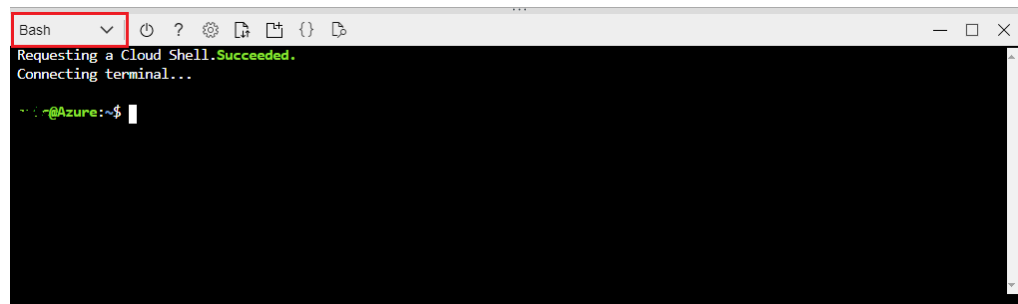


3. In the Welcome to Azure Cloud Shell dialog, when prompted to select either **Bash** or **PowerShell**, select **Bash**.
4. A new window will open stating **You have no storage mounted**. Select **advanced settings**.
5. In the advanced settings screen, fill in the following fields, then click Create Storage:
 - Resource Group: **Create new resource group**
 - Storage Account: Create a new account a use a globally unique name (ex: cloudshellxyzstorage)
 - File Share: Create a new one and name it cloudshellfileshare

Task 2: Use CLI to create a virtual machine

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

1. Ensure **Bash** is selected in the upper-left drop-down menu of the Cloud Shell pane (and if not, select it).



2. Verify the resource group you are using by entering the following command.

Code	Copy
<pre>az group list --output table</pre>	

3. In Cloud Shell enter the command below and make sure that each line, except for the last one, is followed by the backslash (\) character. If you type the whole command on the same line, do not use any backslash characters.

Code	Copy
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```
az vm create \  
  --name myVMCLI \  
  --resource-group myRGCLI \  
  --image UbuntuLTS \  
  --location EastUS2 \  
  --admin-username azureuser \  
  --admin-password Pa$$w0rd1234
```

Note: If you are using the command line on a Windows computer, replace the backslash (\) character with the caret (^) character.

Note: The command will take 2 to 3 minutes to complete. The command will create a virtual machine and various resources associated with it such as storage, networking and security resources. Do not continue to the next step until the virtual machine deployment is complete.

- When the command finishes running, in the browser window, close the Cloud Shell pane.
- In the Azure portal, search for **Virtual machines** and verify that **myVMCLI** is running.

Home > Virtual machines						
Virtual machines Microsoft						
+ Add ⌚ Reservations ≡ Edit columns ↺ Refresh ⚙ Assign tags ▶ Start ↺ Restart ■ Stop 🗑 Delete						
1 items						
<input type="checkbox"/>	Name ↑↓	Type ↑↓	Private IP address	Resource group ↑↓	Location ↑↓	Status
<input type="checkbox"/>	myVMCLI	Virtual machine	10.0.0.4	myRGCLI	East US	Running

Task 3: Execute commands in the Cloud Shell

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

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

Code	Copy
<pre>az vm show --resource-group myRGCLI --name myVMCLI --show-details --output table</pre>	

- Stop the virtual machine. Notice the message that billing continues until the virtual machine is deallocated.

Code	Copy
<pre>az vm stop --resource-group myRGCLI --name myVMCLI</pre>	

- Verify your virtual machine status. The PowerState should now be **stopped**.

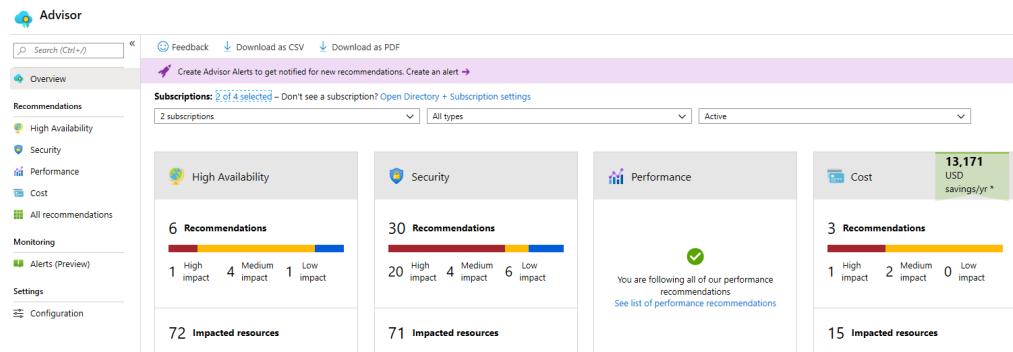
Code	Copy
<pre>az vm show --resource-group myRGCLI --name myVMCLI --show-details --output table</pre>	

Task 4: Review Azure Advisor Recommendations

In this task, we will review Azure Advisor recommendations.

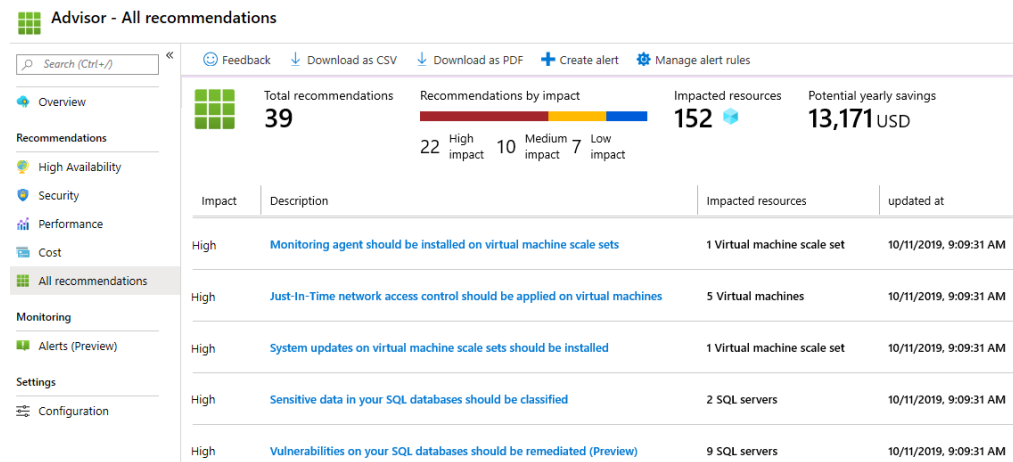
Note: If you have completed the previous lab (Create a VM with PowerShell), then you have already performed this task.

1. From the **All services** blade, search for and select **Advisor**.
2. 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 CLI.

Congratulations! You have configured Cloud Shell, created a virtual machine using Azure CLI, practiced with Azure CLI 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.

