Module 15 - Lab 2: Implementing Azure Monitor

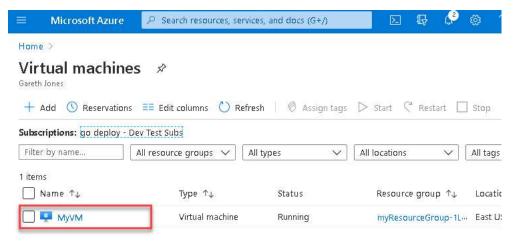
Lab Overview
 In this lab, you will be deploying a test Virtual Machine and configuring Azure Monitor on that Virtual Machine by applying some condition and action items. If the Virtual Machine reaches the defined condition thresholds, Azure Monitor will generate alerts.

 Learning Objectives

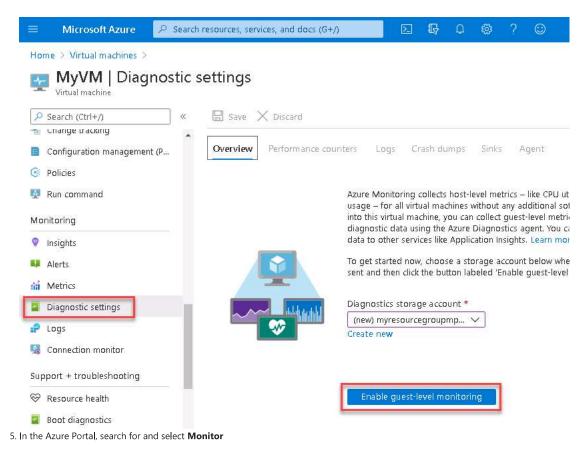
 Deploy a test Virtual Machine
 Configure Azure Monitor
 Test the Alerts triggered by Azure Monitor

Exercise 1: Configure Azure Monitor

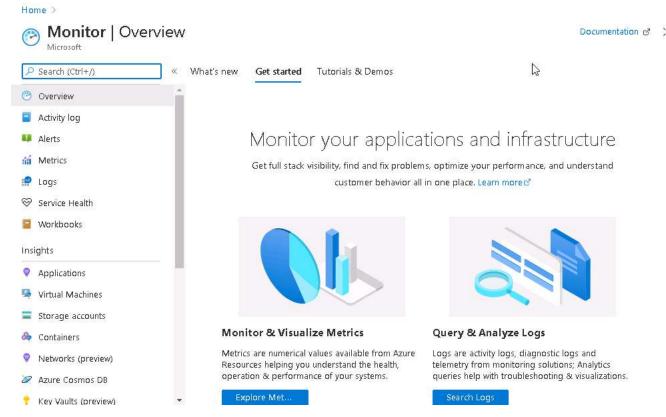
- 1. Login to the **Azure Portal https://portal.azure.com** using the username sheikhnasirPS6HG@gdcs4.com and password she assword she as well as
 - 2. In the Azure Portal navigate to Virtual Machines and select MyVM.



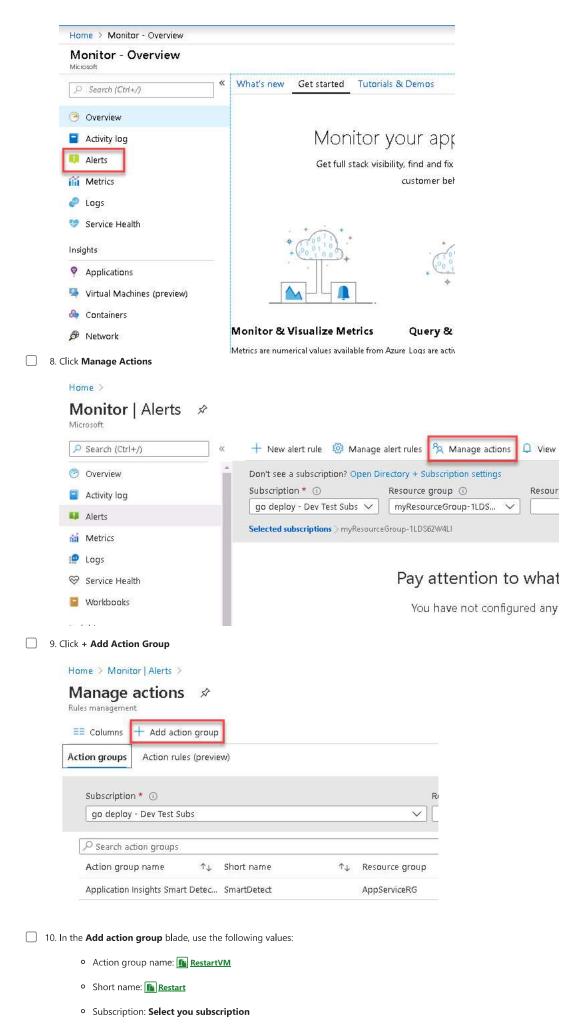
- 3. Select **Diagnostic settings** under the Monitoring section.
- 4. Click Enable guest level monitoring.



6. This page brings together all your monitoring settings and data into one consolidated view. It first opens to the **Overview** section. The Overview shows you a rollup of all monitoring alerts, errors, and service health advisories that relate to resources in your subscription.



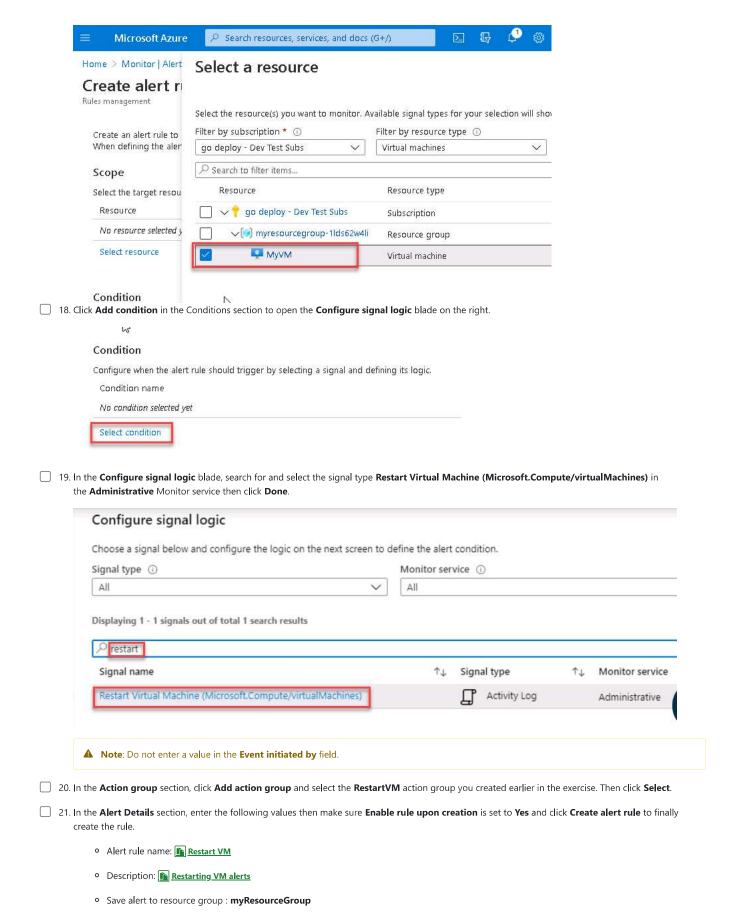
7. Click **Alerts** on the left.



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 Resource group: myResourceGroup-7PCQ9EMYV7 11. In the **Notifications** section, add an action with the following configuration: • Action name: Email 123 • Notification Type: Email/SMS/Push/Voice 12. In the details pane for Email/SMS/Push/Voice that appears on the right, check the box for Email and enter a valid email address. Check the box for **SMS** and enter a valid phone number where you would to receive text notifications. If you have the Azure App installed on your phone, check the box for Azure App Notifications and enter the email address associated with the Azure app. Finally, check the box for Voice and enter a phone number where you would like to receive a call notifying you when your alert is triggered. 13. Click **OK** when you are done then click **Review + Create** then **Create**. 14. Return to the **Monitor-Alerts** service page. 15. Click + New Alert rule. Home > Search (Ctrl+/) Manage alert rules A Manage actions New alert rule Overview Don't see a subscription? Open Directory + Subscription settings Subscription * ① Resource group ① Activity log go deploy - Dev Test Subs 🗸 myResourceGroup-1LDS... Alerts Selected subscriptions > myResourceGroup-1LDS62W4LI m Metrics P Logs Pay attention t Service Health 16. In the **Create rule** blade, click **Select resource** under the **Scope** section. Create alert rule Rules management Create an alert rule to identify and address issues when important conditions are found in your monitoring data; Learn more When defining the alert rule, check that your inputs do not contain any sensitive content. Scope Select the target resource you wish to monitor. Hierarchy Resource No resource selected yet Select resource

17. On the **Select a resource page** in the **Filter by resource type** dropdown, choose Virtual machines. Then select **myVM** and click **Done**.



Alert rule details Provide details on your alert rule so that you can identify and manage it later. Alert rule name * ① Restart VM' Description Restarting VM alerts Save alert rule to resource group * ① myResourceGroup-1LDS62W4LI w

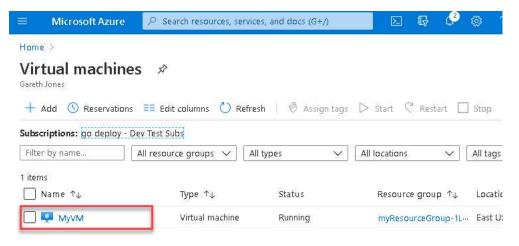
✓ Summary

You have successfully configured Azure Monitor to alert you when the MyVM virtual machine is restarted.

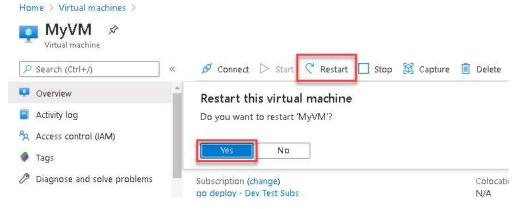
Exercise 2: Test the Alert

1. In the Azure Portal navigate to **Virtual Machines** and select **MyVM**.

Enable alert rule upon creation



2. In the **myVM** blade, click **Restart** and click **Yes** in the confirmation dialog.



3. You should receive an SMS text message, email, phone call, and an Azure app push notification (if configured) regarding the restart of the virtual machine within about 5 minutes. Here is an example of an email alert:



Azure Monitor alert 'Restart VM`' was activated for 'MyVM' at June 28, 2020 16:40 UTC

You're receiving this notification as a member of the restart action group because an Azure Monitor alert was activated.

Activity log alert	Restart VM`
Time	June 28, 2020 16:40 UTC
Category	Administrative
Operation name	Microsoft.Compute/virtualMachines/restart/action
Correlation ID	98383f93-8be6-4665-806a-97ca749265f2
Level	Informational
Resource ID	/subscriptions/
	9/resourceGroups/myResourceGroup-1LDS62W4LI/pro
	viders/Microsoft.Compute/virtualMachines/MyVM
Caller	and the second of the second o
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4. On the portal's left navigation, click **Monitor** then click **Alerts**.

5. You should see that the alert rule you created earlier has fired multiple times, once for each notification method you configured earlier.



✓ Summary

You have successfully tested alerting in Azure Monitor by creating an alert rule with custom targets, conditional logic, and delivery mechanisms for the alert itself