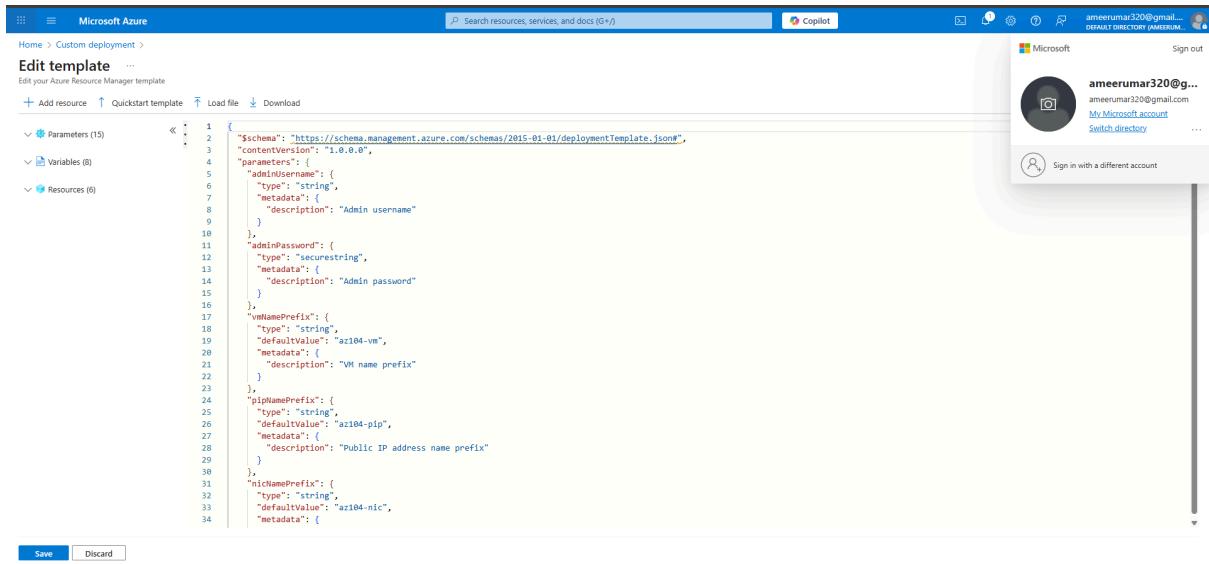


Assignment: 02
Lab: 11
Name: Ameer Umar Khan
ID: 2280137
Section: 7B

Task 1:

Loading the template file



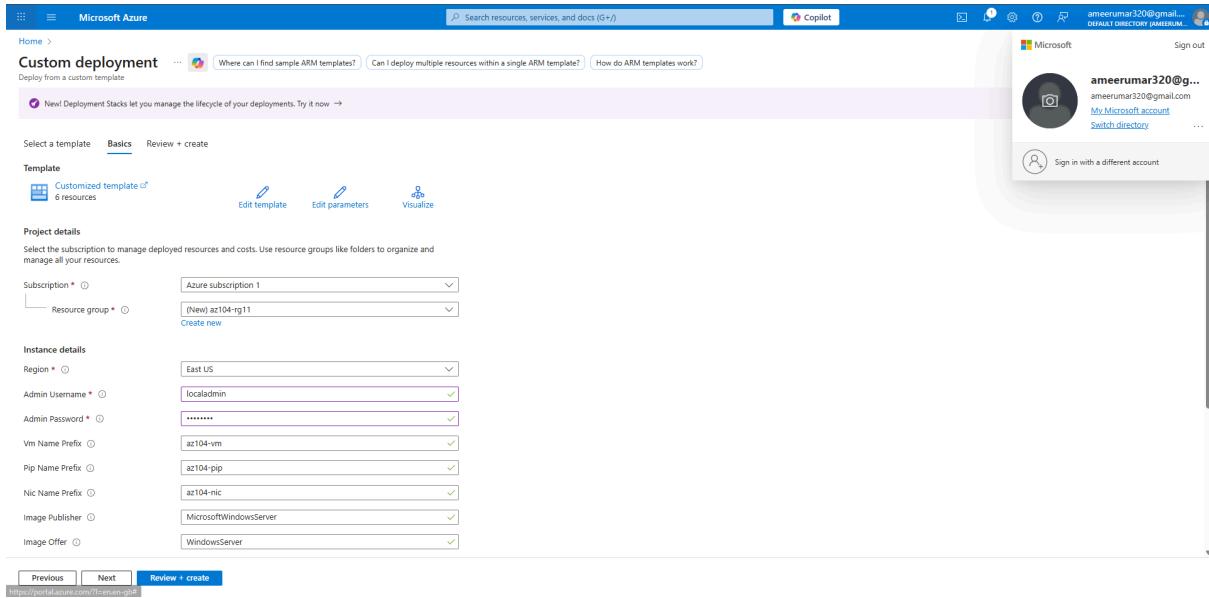
```

1  {
2      "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
3      "contentVersion": "1.0.0.0",
4      "parameters": {
5          "adminUsername": {
6              "type": "string",
7              "metadata": {
8                  "description": "Admin username"
9              }
10         },
11         "adminPassword": {
12             "type": "securestring",
13             "metadata": {
14                 "description": "Admin password"
15             }
16         },
17         "vmNamePrefix": {
18             "type": "string",
19             "defaultValue": "az104-vm",
20             "metadata": {
21                 "description": "VM name prefix"
22             }
23         },
24         "pipNamePrefix": {
25             "type": "string",
26             "defaultValue": "az104-pip",
27             "metadata": {
28                 "description": "Public IP address name prefix"
29             }
30         },
31         "nicNamePrefix": {
32             "type": "string",
33             "defaultValue": "az104-nic",
34             "metadata": {

```

[Save](#) [Discard](#)

Creating template



Custom deployment

Select a template [Basics](#) [Review + create](#)

Template

- Customized template (2 resources)
 - [Edit template](#)
 - [Edit parameters](#)
 - [Visualize](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * [Azure subscription 1](#)

Resource group * [\(New\) az104-rg11](#) [Create new](#)

Instance details

Region *	East US
Admin Username *	localadmin
Admin Password *	*****
Vm Name Prefix	az104-vm
Pip Name Prefix	az104-pip
Nic Name Prefix	az104-nic
Image Publisher	MicrosoftWindowsServer
Image Offer	WindowsServer

[Previous](#) [Next](#) [Review + create](#)

Verifying resources

The screenshot shows the Microsoft Azure Resource Group Overview page for the 'az104-rg11' resource group. The left sidebar includes links for Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Cost Management, Monitoring, Automation, Help, and a 'Give feedback' link. The main content area displays a table of resources with columns for Name, Type, and Location. The resources listed are:

Name	Type	Location
az104-nic0	Network Interface	East US
az104-msg01	Network security group	East US
az104-pip0	Public IP address	East US
az104-vm0	Virtual machine	East US
az104-vm0_disk1_79c3b96025f2	Disk	East US
az104-vnet	Virtual network	East US
az10411dqtmqm5xdhvey	Storage account	East US

Enabling VM insights

The screenshot shows the Microsoft Azure 'Configure monitor' page for the 'az104-vm0' virtual machine. The top navigation bar includes links for Home, Monitor, Virtual Machines, and a 'Give feedback' link. The main content area has tabs for Capabilities (selected) and Review + enable. Under the Capabilities tab, there are sections for Infrastructure monitoring and Enable detailed metrics.

Infrastructure monitoring
Collect health and performance data from the operating system running on your virtual machine for improved troubleshooting, alerts, and visualizations.
 [Customize infrastructure monitoring](#)

Enable detailed metrics
 [Preview] OpenTelemetry metrics [See metrics](#) At no additional cost
Azure Monitor workspace: (New) defaultazurermmonitorworkspace-eus
 [Classic] Log-based metrics [Log Analytics workspace](#) workspaceaz104g9a831

At the bottom are 'Next' and 'Review + enable' buttons, and a 'Give Feedback' link.

Task 2:

Creating alert rule

The screenshot shows the Microsoft Azure portal interface for creating an alert rule. The top navigation bar includes 'Microsoft Azure', 'Search resources, services, and docs (G+)', 'Copilot', and a user profile for 'ameerumar320@gmail.com'. The main content area is titled 'Create an alert rule' with a sub-section 'Scope'. The 'Scope' tab is active, showing the 'Subscription' scope selected. Below this, there's a 'Resource Hierarchy' section with 'Azure subscription 1' listed. At the bottom of the page, there are navigation buttons: 'Review + create' (highlighted in blue), 'Previous', and 'Next: Condition >'. A sidebar on the right shows the user's profile and sign-in options.

Condition tab

The screenshot shows the 'Condition' tab of the alert rule creation wizard. The top navigation bar is identical to the previous screenshot. The main content area is titled 'Create an alert rule' with a sub-section 'Condition'. The 'Condition' tab is active, showing a dropdown menu for 'Signal name *' with 'Delete Virtual Machine (Virtual Machines)' selected. Below this, a 'Chart period' dropdown is set to 'Over the last 6 hours'. A large empty box below these fields is labeled 'No data available'. Further down, there's a section for 'Alert logic' with three dropdown menus: 'Event Level' (All selected), 'Status' (All selected), and 'Event initiated by' (* (All services and users)). There's also a link 'View events in Azure Monitor - Activity Log'. At the bottom of the page, there are navigation buttons: 'Review + create' (highlighted in blue), 'Previous', and 'Next: Actions >'. A sidebar on the right shows the user's profile and sign-in options.

Task 3:

Create action group

Microsoft Azure Search resources, services, and docs (G+) Copilot amruthumar123@gmail.com DEFAULT DIRECTORY JAMERIKUM... X

Home > Monitor | Alerts > Create an alert rule >

Create action group

Basics Notifications Actions Tags Review + create

An action group invokes a defined set of notifications and actions when an alert is triggered. [Learn more](#)

Project details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription: Azure subscription 1
Resource group: az104-rg11
Region: Global

Instance details

Action group name: Alert the operations team
Display name: AlertOpsTeam

The display name is limited to 12 characters

Review + create Previous Next: Notifications >

Notifications tab

Microsoft Azure Search resources, services, and docs (G+) Copilot amruthumar123@gmail.com DEFAULT DIRECTORY JAMERIKUM... X

Home > Monitor | Alerts > Create an alert rule >

Create action group

Basics Notifications Actions Tags Review + create

Choose how to get notified when the action group is triggered. This step is optional.

Notification type: Email/SMS message... Name: Selected
VM was deleted Email

Review + create Previous Next: Actions >

Review + create

This screenshot shows the 'Create action group' review step in the Azure portal. The top navigation bar includes 'Microsoft Azure', 'Search resources, services, and docs (G+)', 'Copilot', and user account information for 'ameerumar320@gmail.com'. The main content area is titled 'Create action group' and shows the following configuration:

- Basics**:
 - Subscription: Azure subscription 1
 - Resource group: az104-rg11
 - Region: global
 - Action group name: Alert the operations team
 - Display name: AlertOpsTeam
- Notifications**:
 - Notification type: Email/SMS message/Push/Voice
 - Name: VM was deleted
 - Type: Selected (Email)
- Actions**: None
- Tags**: None

At the bottom, there are 'Create' and 'Previous' buttons.

Details tab on alert rule

This screenshot shows the 'Create an alert rule' details tab in the Azure portal. The top navigation bar includes 'Microsoft Azure', 'Search resources, services, and docs (G+)', 'Copilot', and user account information for 'ameerumar320@gmail.com'. The main content area is titled 'Create an alert rule' and shows the following configuration:

- Scope**:
 - Subscription: Azure subscription 1
 - Resource group: NetworkWatcherRG
 - Create new
- Region**: Global
- Alert rule details**:
 - Alert rule name: VM was deleted
 - Alert rule description: A VM in your resource group was deleted
- Advanced options**: (button)

At the bottom, there are 'Review + create', 'Previous', and 'Next: Tags >' buttons.

Review + create

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > Monitor | Alerts >

Create an alert rule

Scope Condition Actions Details Tags Review + create

Scope

Scope level Subscription

Resource Azure subscription 1

Condition

Condition preview Whenever the Activity Log has an event with Category=Administrative, Signal name=Delete Virtual Machine (Virtual Machines)

Actions

Action group name Contain actions

Alert the operations team 1 Email

Details

Project details

Subscription Azure subscription 1

Resource group NetworkWatcherRG

Region global

Alert rule details

Alert rule name VM was deleted

Alert rule description A VM in your resource group was deleted

Enable upon creation

[Create](#) [Previous](#)



ameerumar320@gmail.com
My Microsoft account
Switch directory

Sign in with a different account

Task 4:

Deleting the virtual machine

This action will permanently delete the virtual machine and is irreversible even if delete operation fails.

Resource to be deleted	Resource type
az104-vm0	Virtual machine

Apply force delete ⓘ

You can also choose to delete associated resources at the same time. Resources that aren't deleted will be orphaned. Associated resources that are in use by other resources are not shown here.

Associated resource type	Quantity	Delete with VM
> OS disk	1	<input type="checkbox"/>
> Network interfaces	1	<input type="checkbox"/>
> Public IP addresses	1	<input type="checkbox"/>

I have read and understand that this virtual machine as well as any selected associated resources listed above will be deleted.

Delete **Cancel** **Feedback**

Task 5:

Creating alert processing rule

The screenshot shows the Microsoft Azure portal interface for creating an alert processing rule. The top navigation bar includes 'Microsoft Azure', 'Search resources, services, and docs (G+)', 'Copilot', and user information 'ameerurmar320@gmail... DEFAULT DIRECTORY (AMERURM...)'. The main title is 'Create an alert processing rule'. Below it, the 'Rule settings' tab is selected, while 'Scheduling', 'Details', 'Tags', and 'Review + create' are also visible.

Rule type *

- Suppress notifications
The alert will still fire, but the action groups won't be invoked so you won't receive any notifications when it fires.
- Apply action group
An action group invokes a defined set of notifications and actions when an alert is triggered.

At the bottom of the page are buttons for 'Review + create', 'Previous', and 'Next: Scheduling >'.

Scheduling tab

The screenshot shows the 'Scheduling' tab of the alert processing rule creation page. The 'Scheduling' tab is selected, and other tabs like 'Rule settings', 'Details', 'Tags', and 'Review + create' are visible at the top.

Define when you'd like to apply this rule.

Apply the rule

- Always
- At a specific time
- Recurring

Start 14/01/2026 22:00

End 15/01/2026 07:00

Time zone (UTC+05:00) Islamabad, Karachi

Preview From 01/14/2026 at 10:00 PM to 01/15/2026 at 7:00 AM (UTC+05:00 Islamabad, Karachi)

At the bottom of the page are buttons for 'Review + create', 'Previous', and 'Next: Details >'.

Details tab

The screenshot shows the 'Create an alert processing rule' page in the Microsoft Azure portal. The 'Details' tab is selected. In the 'Project details' section, 'Subscription' is set to 'Azure subscription 1' and 'Resource group' is set to 'az104-rg11'. In the 'Alert processing rule details' section, the 'Rule name' is 'Planned Maintenance' and the 'Description' is 'Suppress notifications during planned maintenance.' A checkbox 'Enable rule upon creation' is checked. At the bottom, there are buttons for 'Review + create', 'Previous', and 'Next: Tags >'. The top navigation bar includes 'Copilot', 'ameerumar320@gmail.com', and 'Sign out'.

Review + create

The screenshot shows the 'Create an alert processing rule' page in the Microsoft Azure portal. The 'Review + create' tab is selected. It displays a summary of the alert processing rule: 'Rule type: Suppress notifications', 'Scope: Azure subscription 1', 'Scheduling: At a specific time (01/14/2026 at 10:00 PM to 01/15/2026 at 7:00 AM)', and 'Details: Rule name: Planned Maintenance, Description: Suppress notifications during planned maintenance, Enable rule upon creation: checked'. At the bottom, there are buttons for 'Create', 'Previous', and 'Next: Tags >'. The top navigation bar includes 'Copilot', 'ameerumar320@gmail.com', and 'Sign out'.

Task 6:

After running count heartbeat query

The screenshot shows the Microsoft Azure Monitor interface. On the left, there's a navigation sidebar with options like Overview, Activity log, Alerts, Issues (preview), Metrics, and Logs, with Logs currently selected. The main area is titled "New Query 1" and shows a single result: "Computer count. > az104-vm0 6". Below the results, there's a chart section with a single data point for "az104-vm0". The bottom of the screen displays a status bar with "2s 997ms" and "Display time (UTC+00:00)".

Ran the new query

This screenshot shows the same Microsoft Azure Monitor interface after running a new query. The query results pane now contains a multi-line query language snippet. The chart below shows a single data series named "az104-vm0" with a value of 3. The x-axis is labeled "TimeGenerated [UTC]" and has two points: 1755 and 1800. The y-axis is labeled "Val" and ranges from 0 to 3. A tooltip for the point at 1800 shows "1s 385ms". The bottom status bar indicates "1s 385ms" and "Display time (UTC+00:00)".

