

INTRODUCTION TO CLOUD COMPUTING

Lab Task 06 (Implement Monitoring)

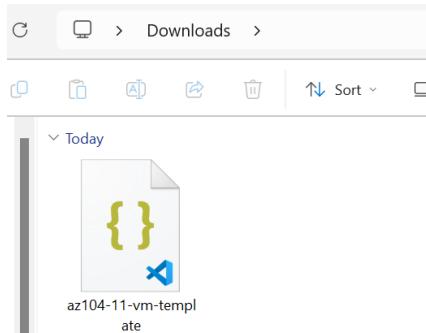
Name: Ariha Zainab

ID: 2280138

Section: SE 7-B

Task 1: Use a template to provision an infrastructure

- Download VM Template File:



- Deploy a Custom Template in Azure Portal:

A screenshot of the Microsoft Azure portal. The top navigation bar shows 'Microsoft Azure' and the user's email 'bsse2280138@szabist.pk'. The main area is titled 'Custom deployment' with a sub-section 'Build your own template in the editor'. It shows a list of common templates like 'Create a Linux virtual machine', 'Create a Windows virtual machine', etc. Below this, there's a section for 'Start with a quickstart template or template spec' with options for 'Template source' (radio buttons for 'Quickstart template' and 'Template spec') and a dropdown for 'Quickstart template (disclaimer)'. The right side of the screen shows a sidebar with the user's profile picture, email, and account links.

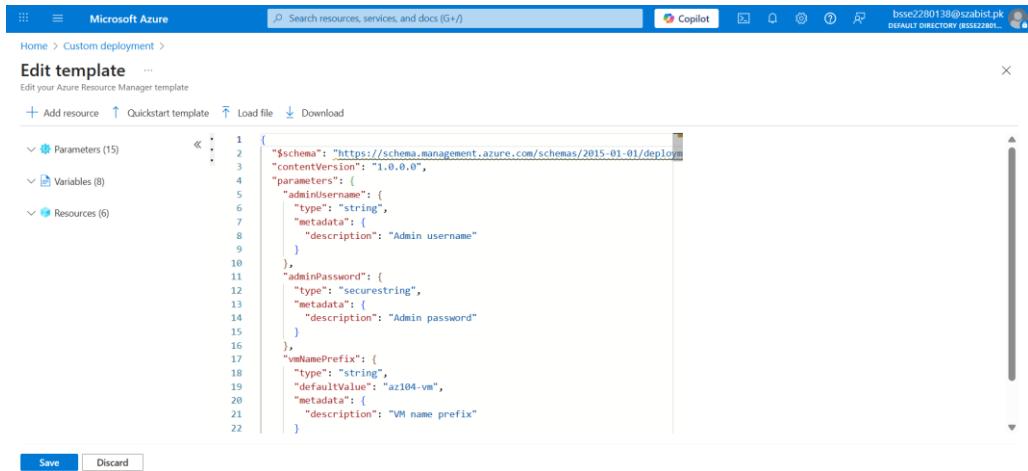
- Load Template File in Editor & Save Template:

A screenshot of the Microsoft Azure portal showing the 'Edit template' blade. The top navigation bar is identical to the previous screenshot. The main area is titled 'Edit template' with a sub-section 'Load file'. On the left, there are three tabs: 'Add resource', 'Quickstart template', and 'Load file' (which is selected). Below these are sections for 'Parameters (0)', 'Variables (0)', and 'Resources (0)'. The right side features a large code editor window displaying a JSON template. The code is as follows:

```
1 {  
2   "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#"  
3   "contentVersion": "1.0.0.0",  
4   "parameters": {},  
5   "resources": []  
6 }
```

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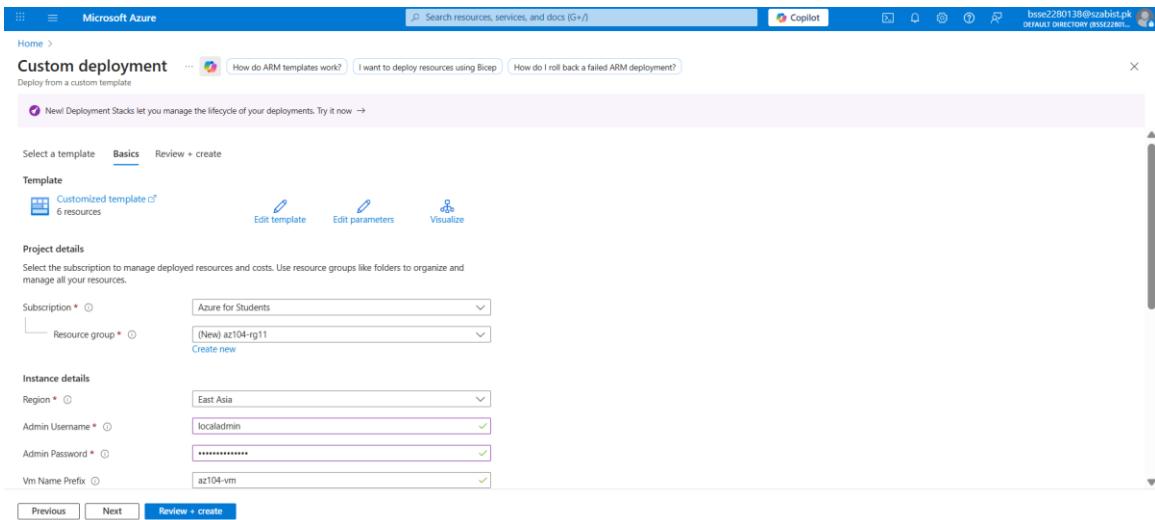
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```
1 { "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
2 "contentVersion": "1.0.0.0",
3 "parameters": {
4     "adminUsername": {
5         "type": "string",
6         "metadata": {
7             "description": "Admin username"
8         }
9     },
10    "adminPassword": {
11        "type": "securestring",
12        "metadata": {
13            "description": "Admin password"
14        }
15    },
16    "vmNamePrefix": {
17        "type": "string",
18        "defaultValue": "az104-vm",
19        "metadata": {
20            "description": "VM name prefix"
21        }
22 }
```

Save Discard

- Custom Deployment Configuration (Subscription, Resource Group, VM Credentials):



Select a template **Basics** Review + create

Template

Customized template 6 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 * (New) az104-rg11 Create new

Resource group *

Instance details

Region *

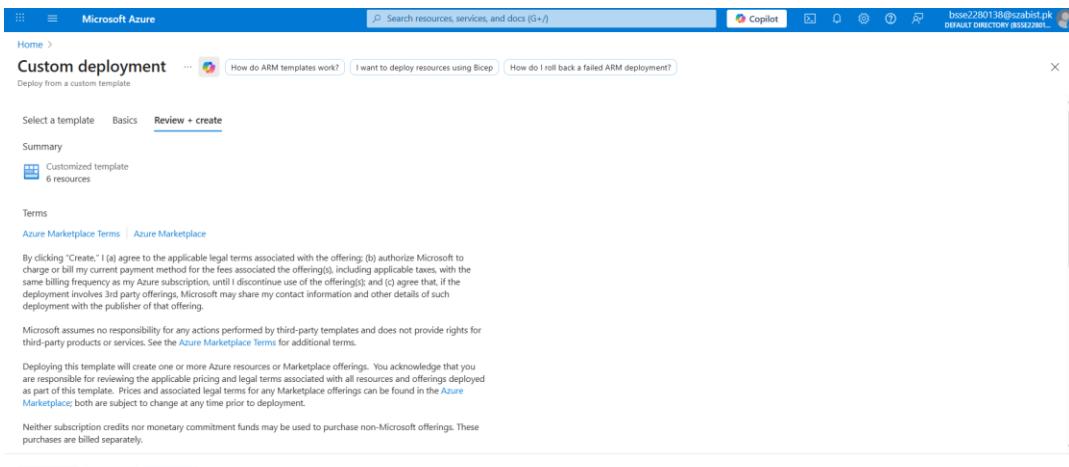
Admin Username *

Admin Password *

Vm Name Prefix

Previous Next Review + create

- Review + Create Validation:



Home > **Custom deployment** ... How do ARM templates work? I want to deploy resources using Bicep How do I roll back a failed ARM deployment?

Deploy from a custom template

Select a template **Basics** Review + create

Summary

Customized template 6 resources

Terms

Azure Marketplace Terms | Azure Marketplace

By clicking "Create," I (a) agree to the applicable legal terms associated with the offering; (b) authorize Microsoft to charge or bill my current payment method for the fees associated with the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that, if the deployment involves 3rd party offerings, Microsoft may share my contact information and other details of such deployment with the publisher of that offering.

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Deploying this template will create one or more Azure resources or Marketplace offerings. You acknowledge that you are responsible for reviewing the applicable pricing and legal terms associated with all resources and offerings deployed as part of this template. Prices and associated legal terms for any Marketplace offerings can be found in the Azure Marketplace; both are subject to change at any time prior to deployment.

Neither subscription credits nor monetary commitment funds may be used to purchase non-Microsoft offerings. These purchases are billed separately.

Previous Next Create

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- Deployment Successful – Go to Resource Group:

The screenshot shows the Microsoft Azure Deployment Overview page for a deployment named "Microsoft.Template-20260111211145". The status is "Your deployment is complete". Deployment details include a name of "Microsoft.Template-20260111211145", a subscription of "Azure for Students", and a resource group of "az104-rg11". The start time was 1/11/2026, 9:12:01 PM. A Correlation ID is also provided. On the right, there are sections for "Cost management" (with a link to "Set up cost alerts") and "Microsoft Defender for Cloud". Below the main content is a "Go to resource group" button.

- Review Deployed Resources (VM and Virtual Network):

The screenshot shows the Microsoft Azure Resource Group Overview for "az104-rg11". The left sidebar lists navigation options like Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Cost Management, Monitoring, Automation, and Help. The main area displays a table of resources under the "Essentials" section. The table includes columns for Name, Type, and Location. Resources listed include "az104-nic0" (Network Interface, East Asia), "az104-nsg01" (Network security group, East Asia), "az104-pip0" (Public IP address, East Asia), "az104-vm0" (Virtual machine, East Asia), "az104-vm0_disk1_3bcd6a55f45946e88ed7cf8733045da" (Disk, East Asia), "az104-vnet" (Virtual network, East Asia), and "az10411cighqiu7vriak" (Storage account, East Asia). There is also a "JSON View" link at the top right.

- Configure VM Insights in Azure Monitor:

The screenshot shows the Microsoft Azure Monitor Virtual Machines page. The left sidebar includes links for Overview, Activity log, Alerts, Issues (preview), Metrics, Logs, Change Analysis, Service health, Workbooks, Dashboards with Grafana, Insights, Applications, and Virtual Machines (which is currently selected). The main content area features a section titled "Monitor the health and performance of virtual machines". It explains that VM insights monitors performance and health of virtual machines and scale sets. Three buttons are available: "Enable VM Insights" (with a gear icon), "Analyze data" (with a chart icon), and "Create alerts" (with an exclamation mark icon).

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- Enable Monitoring for the Virtual Machine:

The screenshot shows the Microsoft Azure Monitor interface for Virtual Machines. The left sidebar includes links for Overview, Activity log, Alerts, Issues (preview), Metrics, Logs, Change Analysis, Service health, Workbooks, Dashboards with Grafana, Insights, Applications, and Virtual Machines. The main content area has tabs for Get started, Overview, Performance, and Map. It displays monitoring status for a subscription and resource group, with a note about Onboarding now supporting OpenTelemetry metrics. The 'Not monitored' tab is selected, showing a list of VMs. One VM, 'az104-vm0', is listed under the 'az104-rg11' resource group, marked as 'Not enabled' with a blue 'Enable' button.

The screenshot shows the 'Configure monitor' dialog for the VM 'az104-vm0'. The 'Review + enable' tab is selected. Under 'Infrastructure monitoring', it lists 'Enable detailed metrics' (Yes), 'OpenTelemetry metrics (preview)' (Enabled), 'Azure Monitor workspace' (defaultazuremonitorworkspace-ea), 'Performance counters' (Metrics collected: filesystem usage, disk usage, disk operation time, disk operations, memory usage, network io, cpu time, network dropped, network errors, system uptime), 'Log-based metrics (classic)' (Enabled), and 'Log Analytics workspace' ((New) defaultworkspace-57a8b5a5-89cd-44d7-aaaf-c65ebdf15a43-ea). At the bottom, there are 'Previous' and 'Enable' buttons, and a 'Give Feedback' link.

Onboarding successful

Your environment is now onboarded.

View configuration

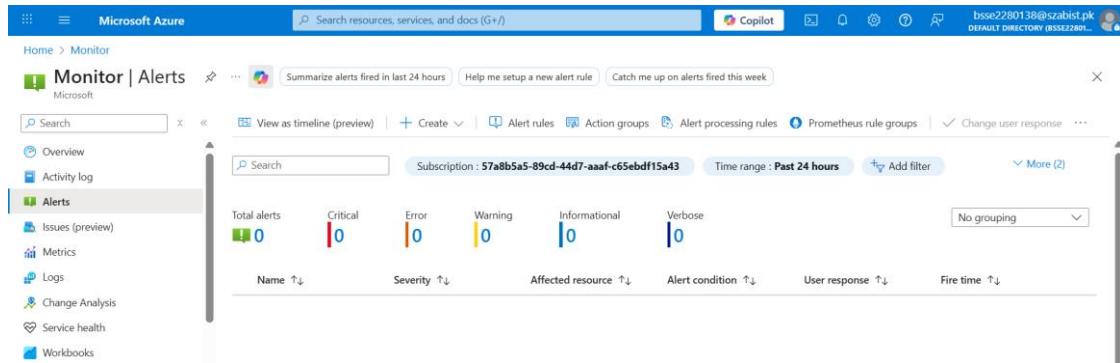
a few seconds ago

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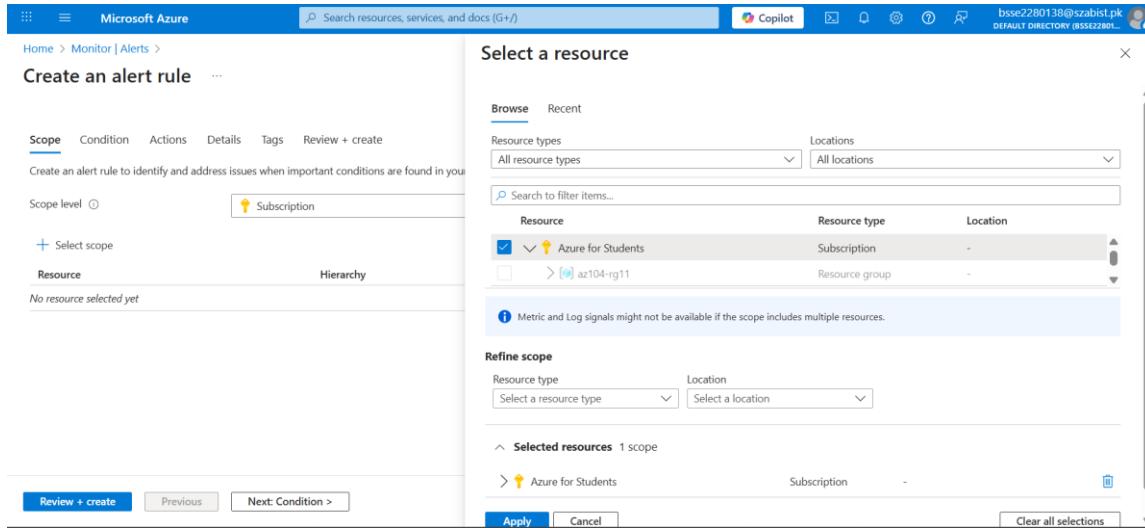
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Task 2: Create an alert

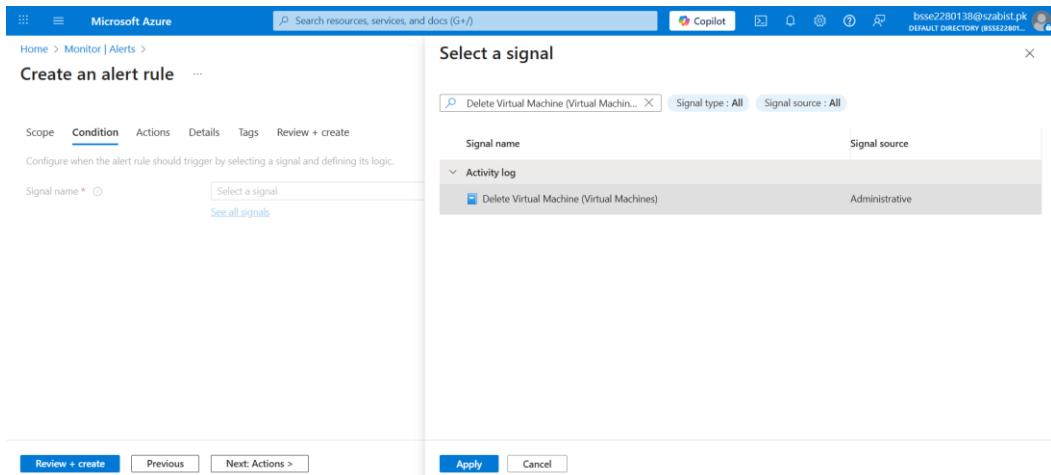
- Azure Monitor – Alerts Page:



- Create Alert Rule & Select Subscription for Alert:



- Condition Tab – See All Signals. Select Delete Virtual Machine Signal:



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Lab Task 06 (Implement Monitoring)

- Alert Logic and Status Verification:

The screenshot shows the 'Create an alert rule' page in the Microsoft Azure portal. The 'Alert logic' section is visible, where users can define the event level, status, and initiator for triggering the alert. The 'Event initiated by' dropdown is set to '(All services and users)'. Below this, there's a chart titled 'activityLogHistoryService' showing 'No data available' over the last 6 hours. At the bottom, there are 'Review + create', 'Previous', and 'Next: Actions >' buttons.

Task 3: Configure action group notifications

- Actions Tab - Use Action Groups. Create Action Group - Basics Tab:

The screenshot shows the 'Create action group' page in the Microsoft Azure portal, specifically the 'Basics' tab. It includes sections for 'Project details' (Subscription: Azure for Students, Resource group: az104-rg11), 'Region' (Global), and 'Instance details' (Action group name: Alert the operations team, Display name: AlertOpsTeam). At the bottom, there are 'Review + create', 'Previous', and 'Next: Notifications >' buttons.

- Action Group – Notifications Tab (Email Setup):

The screenshot shows the 'Create action group' page in the Microsoft Azure portal, specifically the 'Notifications' tab. It lists a single notification type: 'Email/SMS message...' with the name 'VM was deleted' selected. The 'Selected' column shows 'Email'. At the bottom, there are 'Review + create', 'Previous', and 'Next: Actions >' buttons.

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- Save Action Group:

The screenshot shows the 'Create action group' wizard in the Microsoft Azure portal. The 'Basics' tab is selected, displaying the following configuration:

Subscription	Azure for Students
Resource group	az104-rg11
Region	global
Action group name	Alert the operations team
Display name	AlertOpsTeam

The 'Notifications' tab shows:

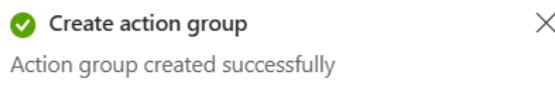
Notification type	Name
Email/SMS message/Push/Voice	VM was deleted
	Selected Email

The 'Actions' tab shows:

None

The 'Tags' tab is empty.

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



An email from Microsoft Azure (nobody+onBehalfOf@msftncdr.com) to me@szabist.pk. The subject is 'You've been added to an Azure Monitor action group'. The body of the email states:

You're now in the AlertOpsTeam action group [Info](#) [Update](#)

You've been added to an Azure Monitor action group

You are now in the AlertOpsTeam action group and will receive notifications sent to the group.

[View details on Azure Monitor action groups >](#)

Account information

Subscription ID: 57A8B5A5-89CD-44D7-AAAF-C65EBDF15A43
Resource group name: az104-rg11
Action group name: Alert the operations team

- Alert Rule Details (Name and Description):

The screenshot shows the 'Create an alert rule' wizard in the Microsoft Azure portal. The 'Condition' tab is selected, showing the condition: 'Whenever the Activity Log has an event with Category='Administrative', Signal name='Delete Virtual Machine (Virtual Machines)''. The 'Actions' tab shows:

Action group name	Contain actions
Alert the operations team	1 Email

The 'Details' tab shows:

Project details	
Subscription	Azure for Students
Resource group	NetworkWatcherRG
Region	global

The 'Alert rule details' tab shows:

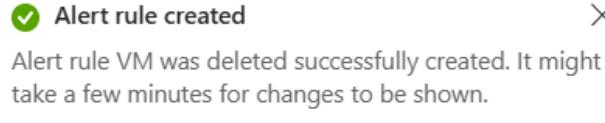
Alert rule name	VM was deleted
Alert rule description	A VM in your resource group was deleted
Enable upon creation	<input checked="" type="checkbox"/>

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

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- Create Alert Rule:



Task 4: Trigger an alert and confirm it is working

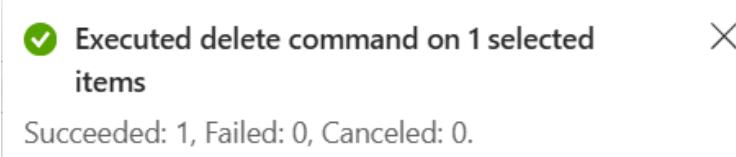
- Select Virtual Machine to Delete:

A screenshot of the Microsoft Azure Compute Infrastructure Virtual machines page. The left sidebar shows navigation options like Overview, All resources, Infrastructure, and Virtual machines. Under Infrastructure, Virtual machines is selected. The main area displays a table of virtual machines. One row is highlighted, showing details: Name (az104-vm0), Subscription (Azure for Students), Resource Group (az104-rg11), Location (East Asia), Status (Running), Operating system (Windows), Size (Standard_D2s_v3), and Public IP address (20.255.187.243). The table has columns for Name, Subscription, Resource Group, Location, Status, Operating syst..., Size, and Public IP address.

- Delete Virtual Machine – Apply Force Delete:

A screenshot of the Microsoft Azure Compute Infrastructure Virtual machines page. The left sidebar shows the same navigation options. A modal dialog titled "Delete Resources" is open over the main content. It lists "1 resources being deleted across 1 subscriptions, 1 resource groups". A table shows a single item: Name (az104-vm0), Resource type (Virtual machine), Subscription (Azure for Students), and Resource Group (az104-rg11). A "Remove" link is also visible. A sub-modal dialog titled "Delete confirmation" contains the message "Deleting the selected resources and their internal data is a permanent action and cannot be undone." with "Delete" and "Go back" buttons. At the bottom of the main dialog, there is a checkbox for "Apply force delete for selected Virtual machines and Virtual machine scale sets" and a text input field with placeholder "Enter 'delete' to confirm deletion" containing the word "delete".

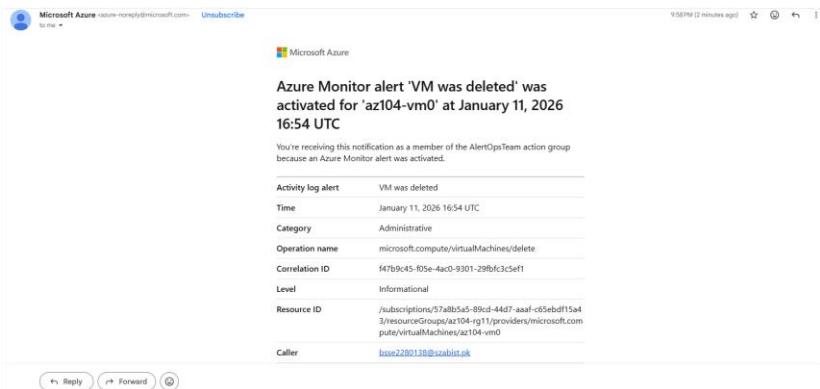
- Notification of VM Deletion:



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- Confirm Alert Email Received:



- Alerts Page in Azure Monitor:

The screenshot shows the Azure Monitor Alerts page. The left sidebar is collapsed. The main area displays a summary of alerts: Total alerts (3), Critical (0), Error (0), Warning (0), Informational (0), and Verbose (3). Below this, a table lists the three alerts, each with a checkbox, name, severity, affected resource, alert condition, user response, and fire time. The alerts are all for "VM was deleted" with a severity of "4 - Verbose" and an affected resource of "az104-vm0". All three alerts are marked as "Fired" and have a "New" user response, occurring at 1/11/2026, 9:58 PM.

- Alert Details Pane:

The screenshot shows the Azure Monitor Alerts page with the details of a specific alert. The alert is titled "VM was deleted" and is described as an "Activity log alert details". The "Summary" tab is selected, showing general details like severity (4 - Verbose), fired time (1/11/2026, 9:58 PM), affected resource (az104-vm0), monitor service (ActivityLog), and alert condition (Fired). A note states: "The target resource az104-vm0 has been moved or deleted." Below this, the "Why did this alert fire?" section lists the event: "The following event occurred: microsoft.compute/virtualMachines/delete". The event level is Informational, category is Administrative, and it was initiated by "bsse2280138@szabist.pk". There is also an "Additional details" section.

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Task 5: Configure an alert processing rule

- Alert Processing Rules Page:

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes 'Microsoft Azure', a search bar, and various icons. Below it, the breadcrumb navigation shows 'Home > Monitor | Alerts > Alert processing rules'. The main content area has a header 'Alert processing rules' with filter options: 'Subscription: Azure for Students', 'Resource group: all', 'Target scope: all', 'Status: Enabled', 'Rule type: all', and 'Add tag filter'. A search bar is also present. The table below has columns: Name (sorted by ascending), Scope, Filter, Rule type (sorted by ascending), Scheduling, and Status (sorted by ascending). A large central message box displays a grey speech bubble with an exclamation mark and the text 'No alert processing rules found'. It suggests changing the search or scope if needed, and includes a 'Clear filters' button.

- Create Alert Processing Rule – Subscription Selection:

The screenshot shows the 'Create an alert processing rule' wizard. The first step, 'Scope', is selected. The left sidebar lists tabs: Scope, Rule settings, Scheduling, Details, Tags, and Review + create. The main area shows a note about using alert processing rules to decide what happens when an alert is triggered, like suppressing notifications. The 'Scope' section allows selecting resources, with a note that this rule will apply to alerts triggered on selected resources. The 'Resource' section shows a table with rows for 'az104-rg11', 'defaultresourcegroup-ea', 'MA_defaultazuremonitorworkspace-ea_eastasia_ma...', and 'NetworkWatcherRG'. The 'Hierarchy' column indicates they are all Resource groups. The right side shows a 'Select a scope' panel with a 'Browse' tab. It lists 'Resource types: All resource types' and a search bar. A table shows 'Scope' (with a checked checkbox), 'Resource type' (Subscription), and 'Location' (dropdown). One row is selected: 'Azure for Students'. Below this is a 'Selected scopes' section with one item: 'Azure for Students'. At the bottom are 'Apply' and 'Cancel' buttons, and a 'Clear all selections' link.

- Rule Settings – Suppress Notifications:

The screenshot shows the 'Create an alert processing rule' wizard at the 'Rule settings' step. The 'Rule type' section has two options: 'Suppress notifications' (selected) and 'Apply action group'. The 'Suppress notifications' option is described as firing the alert but not invoking action groups, so no notifications are received. The 'Apply action group' option is described as invoking a defined set of notifications and actions when an alert is triggered.

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- **Scheduling Tab – Define Maintenance Window:**

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

bsse2280138@szabist.pk

DEFAULT DIRECTORY (BSSE2280138)

Home > Monitor | Alerts > Alert processing rules

Create an alert processing rule ...

Scheduling

Scope Rule settings Scheduling Details Tags Review + create

Define when you'd like to apply this rule.

Apply the rule

Always At a specific time Recurring

Start 01/11/2026 10:00 PM

End 01/12/2026 7:00 AM

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

Preview From 11/01/2026 at 10:00 pm to 12/01/2026 at 7:00 am (UTC+05:00 Islamabad, Karachi)

Review + create Previous Next: Details >

- **Alert Processing Rule Details (Name, Description, Resource Group):**

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

bsse2280138@szabist.pk

DEFAULT DIRECTORY (BSSE2280138)

Home > Monitor | Alerts > Alert processing rules

Create an alert processing rule ...

Details

Scope Rule settings Scheduling Details Tags Review + create

Select the subscription and resource group in which to save the alert processing rule.

Project details

Subscription Azure for Students

Resource group az104-rg11

Alert processing rule details

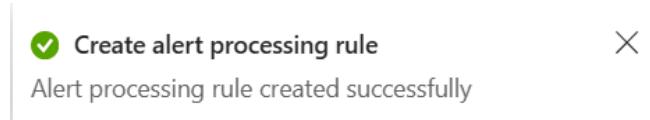
Rule name * Planned Maintenance

Description Suppress notifications during planned maintenance.

Enable rule upon creation

Review + create Previous Next: Tags >

- **Review + Create Alert Processing Rule:**



Microsoft Azure

Search resources, services, and docs (G+)

Copilot

bsse2280138@szabist.pk

DEFAULT DIRECTORY (BSSE2280138)

Home > Monitor | Alerts >

Alert processing rules ...

+ Create Columns Refresh Open query Delete Enable Disable

Search Subscription : Azure for Students Resource group : all Target scope : all Status : Enabled Rule type : all Add tag filter

Name ↑↓	Scope	Filter	Rule type ↑↓	Scheduling	Status ↑↓	...
Planned Maintenance	Azure for Students		Suppression	At a specific time	Enabled	

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Task 6: Use Azure Monitor log queries

- Azure Monitor – Logs Page

The screenshot shows the Microsoft Azure Log Analytics interface. The left sidebar menu is open, showing various options under the 'Logs' section, such as Overview, Activity log, Alerts, Issues (preview), Metrics, and Log Analytics. The 'Log Analytics' option is selected. The main content area displays a welcome message: 'Welcome to Log Analytics' with a subtext: 'Azure Monitor Log Analytics is a tool used to produce insights from Azure Monitor logs.' Below this is a large graphic featuring a blue play button icon and the text 'Azure Log Analytics'.

- Select Scope / Subscription

The screenshot shows the Microsoft Azure Log Analytics interface with the 'Select a scope' dialog open. The left sidebar menu is open, showing various options under the 'Logs' section. The 'Log Analytics' option is selected. The main content area shows the 'Select a scope' dialog, which includes a warning message: '⚠ You may only choose items from the same resource type.' It has three tabs: 'Browse', 'Recent', and 'Recent'. Under 'Recent', there is a list of scopes: 'All resource groups', 'All resource types', and 'All locations'. A search bar is also present. Below this is a table with columns: 'Scope', 'Resource type', and 'Location'. One item is selected: 'Azure for Students' (Subscription, -). At the bottom of the dialog, there are 'Selected scopes' (1 scope) and 'Apply' and 'Cancel' buttons.

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- **Queries Tab – Virtual Machines. Run Preconfigured Query – Count Heartbeats**

The screenshot shows two views of the Microsoft Azure Monitor Logs interface. The top view displays the 'Heartbeat' query details, including its description as 'Records logged by Log Analytics agents once per minute to report on agent health.' The bottom view shows the results of the 'Heartbeat' query over the last 24 hours, listing numerous entries with columns for TimeGenerated [UTC], SourceComputerId, ComputerIP, Computer, Category, OSType, and OSName.

Top View: Heartbeat Query Details

TimeGenerated [UTC]	SourceComputerId	ComputerIP	Computer	Category	OSType	OSName
> 1/11/2026, 4:53:19.692 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:52:19.677 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:51:19.666 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:50:19.661 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:49:19.648 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:48:19.642 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:47:19.635 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:46:19.628 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:45:19.624 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:44:19.619 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:43:19.603 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:42:19.602 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:41:19.587 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server

Bottom View: Results of the Heartbeat Query

TimeGenerated [UTC]	SourceComputerId	ComputerIP	Computer	Category	OSType	OSName
> 1/11/2026, 4:53:19.692 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:52:19.677 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:51:19.666 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:50:19.661 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:49:19.648 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:48:19.642 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:47:19.635 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:46:19.628 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:45:19.624 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:44:19.619 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:43:19.603 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:42:19.602 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:41:19.587 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server

INTRODUCTION TO CLOUD COMPUTING

Lab Task 06 (Implement Monitoring)

- Change Mode from Simple to KQL Mode then review the query & Replace the query and then click **Run**. Review the resulting

The screenshot shows the Microsoft Azure Monitor Logs interface. On the left, there's a sidebar with various navigation options like Overview, Activity log, Alerts, Issues (preview), Metrics, and Logs (which is selected). The main area has a search bar, a 'New Query 1*' button, and a 'Run' button. The query editor contains the following KQL:

```
1 InsightsMetrics
2 | where TimeGenerated > ago(1h)
3 | where Name == "UtilizationPercentage"
4 | summarize avg(Value) by bin(TimeGenerated, 5m), Computer //split up by computer
5 | render timechart
```

The results section shows a table with columns: TimeGenerated [UTC], SourceComputerId, ComputerIP, Computer, Category, OSType, and OSName. The data is as follows:

TimeGenerated [UTC]	SourceComputerId	ComputerIP	Computer	Category	OSType	OSName
> 1/11/2026, 4:40:19.582 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:39:19.576 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:38:19.562 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:37:19.553 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:36:19.544 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server
> 1/11/2026, 4:35:19.540 PM	50b769be-d947-4a73-9759-1135cc6f9c24	20.255.187.243	az104-vm0	Azure Monitor Agent	Windows	Microsoft Windows Server

Below the table is a chart titled 'Chart' showing 'avg Value' over time. The chart has a single data series named 'az104-vm0'. The Y-axis ranges from 0 to 10, and the X-axis shows dates from 8:00 AM to 8:20 AM. The data points show a sharp drop from approximately 7.5 at 8:00 AM to 0 at 8:05 AM, remaining at 0 until 8:20 AM.