

Name: Zainab Asif

Id: 2280134

Section: A

LAB: 11

Task 1: Use a template to provision an infrastructure.

The screenshot displays the Microsoft Azure portal interface. The top navigation bar includes the 'Microsoft Azure' logo, a search bar, and the user profile 'bsse2280134@szabist.pk'. The main content area is divided into two sections.

Custom deployment

Deploy from a custom template

Basics

Subscription	Azure for Students
Resource group	zainabRG
Region	Central India
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
Image SKU	2019-Datacenter
Vm Size	Standard_D2s_v3
Virtual Network Name	az104-vnet
Address Prefix	10.0.0.0/24
Virtual Network Resource Group	az104-rg11

Previous Next Create

zainabRG

Resource group

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Deployment stacks

Policies

Properties

Locks

Essentials

Resources

Name ↑	Type	Location
az104-nic0	Network Interface	Central India
az104-nsg01	Network security group	Central India
az104-pip0	Public IP address	Central India
az104-vm0	Virtual machine	Central India
az104-vm0_OsDisk_1_92a615172e214f2c9ebd774e29e06ad9	Disk	Central India
az104-vnet	Virtual network	Central India
az10411hh7d7d64zi4si	Storage account	Central India

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

bsse2280134@szabist.pk
DEFAULT DIRECTORY (BSSE22801...

Home > Monitor | Virtual Machines >

Configure monitor | azurevmzainab

CapabilitiesReview + enable

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) defaultazuremonitorworkspace-cid

☒ [Classic] Log-based metrics

Log Analytics workspace: defaultworkspace-2abc1374-49a7-48c3-b0a8-366511eba3ea-cin

NextReview + enable

Give Feedback

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

bsse2280134@szabist.pk
DEFAULT DIRECTORY (BSSE22801...

Home > Monitor

Monitor | Virtual Machines

Microsoft

Search

RefreshProvide Feedback

Get startedOverviewPerformanceMap

Filter by name...Subscription: Azure for StudentsResource group: All resource groupsType: All types

Location: All locationsGroup by: Subscription, Resource group

Onboarding now supports OpenTelemetry metrics. If you enable only OpenTelemetry metrics, your VM will still collect data but will not appear as 'Monitored' in this view. Learn more

Monitored (1)Not monitored (1)Workspace configurationOther onboarding options

Name	Monitor Coverage	Data collection rule
<div><div></div><div>Azure for Students</div></div>	1 of 2	
<div><div></div><div>resourcemonitoring</div></div>	1 of 1	
<div><div></div><div>azurevmzainab</div></div>	Enabled	<div><div></div><div>MSVMI-centralindia-azurevmzainab</div></div>

Add or remove favorites by pressing Ctrl+Shift+F

Task 2: Create an alert.

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

bsse2280134@szabist.pk
DEFAULT DIRECTORY (BSSE22801...

Home > Monitor | Alerts >

Create an alert rule

ScopeConditionActionsDetailsTagsReview + create

Create an alert rule to identify and address issues when important conditions are found in your monitoring data. Learn more

Scope level

Subscription

+ Select scope

ResourceHierarchy

Azure for Students

Review + createPreviousNext: Condition >

Microsoft Azure

Search resources, services, and docs (G+/I)

Copilot

bsse2280134@szabist.pk

Home > Monitor | Alerts >

Create an alert rule

No data available

activityLogHistoryBarSeries

5 AM

View events in Azure Monitor - Activity Log

Alert logic

Event Level

All selected

Status

All selected

Event initiated by

* (All services and users)

Add event initiator

Condition preview

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

Review + create

Previous

Next: Actions >

Task 3: Configure action group notifications.

Microsoft Azure

Search resources, services, and docs (G+/I)

Copilot

bsse2280134@szabist.pk

Home > Monitor | Alerts > Create an alert rule >

Create action group

Basics

Notifications

Actions

Tags

Review + create

This is a summary of your action group. Please review to ensure the information is correct and consider [Azure Monitoring Pricing](#) and the [Azure Privacy Statement](#).

Basics

Subscription

Azure for Students

Resource group

zainabRG

Region

global

Action group name

Alert the operations team

Display name

AlertOpsTeam

Notifications

Notification type

Name

Selected

Email/SMS message/Push/Voice

VM was deleted

Email

Create

Previous

Microsoft Azure

Search resources, services, and docs (G+/I)

Copilot

bsse2280134@szabist.pk

Home > Monitor | Alerts >

Create an alert rule

Scope

Condition

Actions

Details

Tags

Review + create

Scope

Scope level

Subscription

Resource

Azure for Students

Condition

Condition preview

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

Actions

Action group name

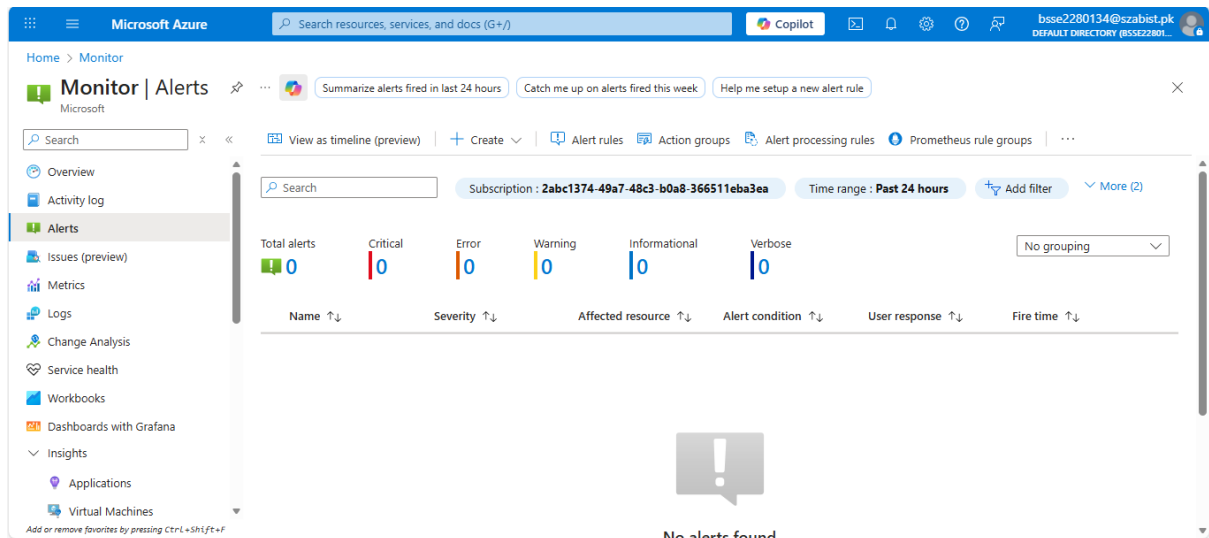
Contain actions

Alert the operations team

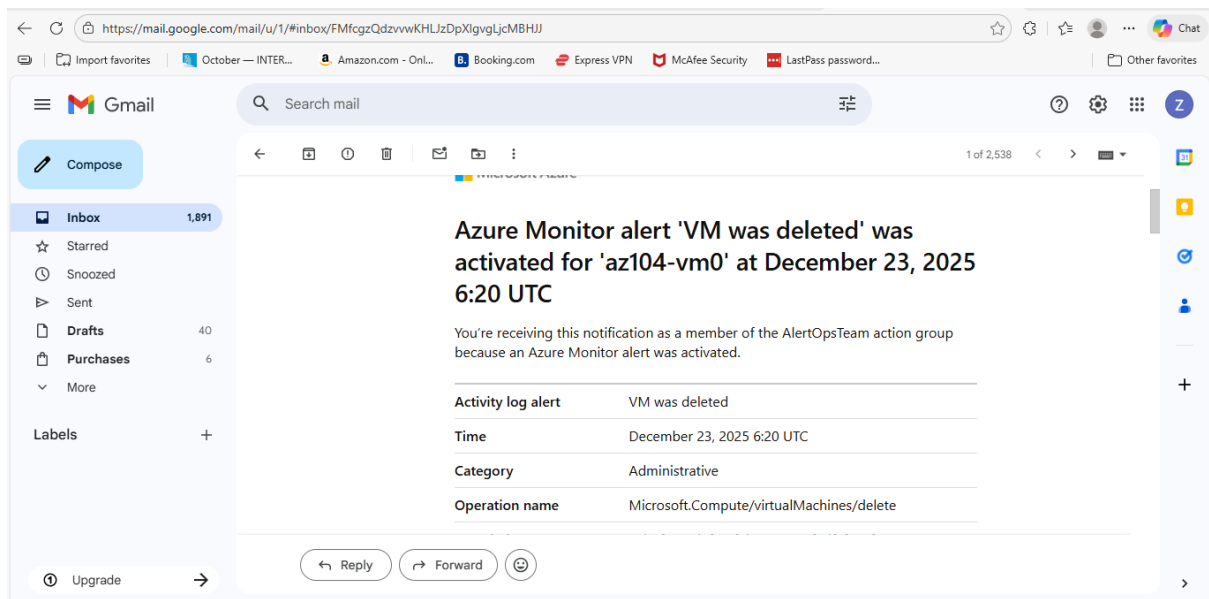
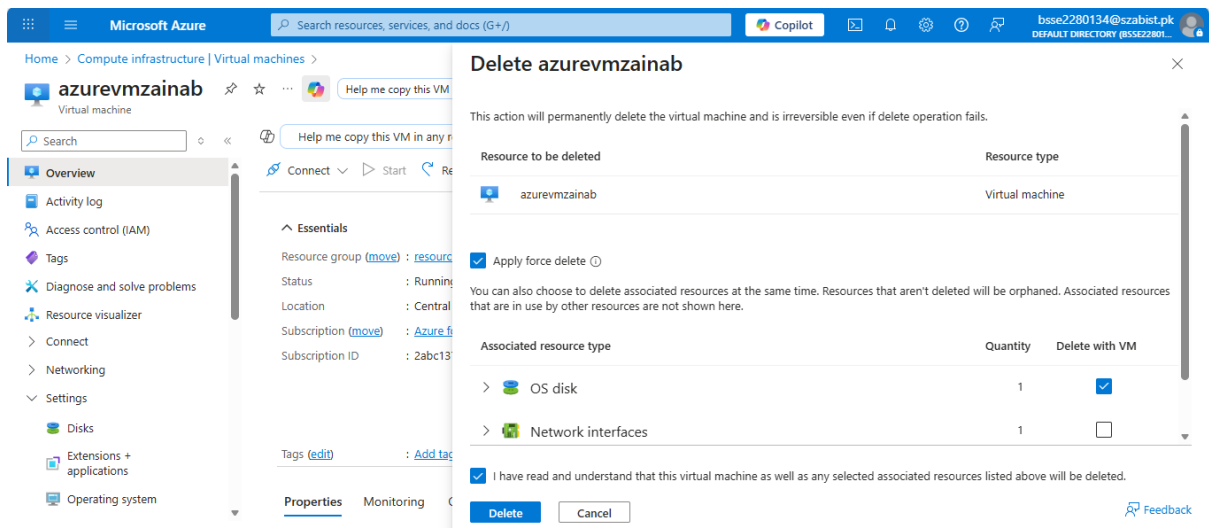
1 Email

Create

Previous



Task 4: Trigger an alert and confirm it is working.



Microsoft Azure | Search resources, services, and docs (G+/I) | Copilot | bsse2280134@szabist.pk

Home > Monitor

Monitor | Alerts

Catch me up on alerts fired this week | Summarize alerts fired in last 24 hours | Help me setup a new alert rule

Search | View as timeline (preview) | Create | Alert rules | Action groups | Alert processing rules | Prometheus rule groups | More (2)

Subscription: 2abc1374-49a7-48c3-b0a8-366511eba3ea | Time range: Past 24 hours | Add filter | More (2)

Total alerts: 3 | Critical: 0 | Error: 0 | Warning: 0 | Informational: 0 | Verbose: 3 | No grouping

Name ↑↓	Severity ↑↓	Affected resource ↑↓	Alert condition ↑↓	User response ↑↓	Fire time ↑↓
<input type="checkbox"/> VM was deleted	4 - Verbose	az104-vm0	Fired	New	12/23/2025, 11:26 AM
<input type="checkbox"/> VM was deleted	4 - Verbose	az104-vm0	Fired	New	12/23/2025, 11:26 AM
<input type="checkbox"/> VM was deleted	4 - Verbose	az104-vm0	Fired	New	12/23/2025, 11:26 AM

Showing 1 - 3 of 3 results. | Give feedback

Microsoft Azure | Search resources, services, and docs (G+/I) | Copilot | bsse2280134@szabist.pk

Home > Monitor

Monitor | Alerts

Catch me up on alerts fired this week | Summarize alerts fired in last 24 hours | Help me setup a new alert rule

Search | View as timeline (preview) | Create | Alert rules | Action groups | Alert processing rules | Prometheus rule groups | More (2)

Subscription: 2abc1374-49a7-48c3-b0a8-366511eba3ea | Time range: Past 24 hours | Add filter | More (2)

Total alerts: 3 | Critical: 0 | Error: 0 | Warning: 0 | Informational: 0 | Verbose: 3 | No grouping

Name ↑↓	Severity ↑↓	Affected resource ↑↓	Alert condition ↑↓	User response ↑↓	Fire time ↑↓
<input type="checkbox"/> VM was deleted	4 - Verbose	az104-vm0	Fired	New	12/23/2025, 11:26 AM
<input type="checkbox"/> VM was deleted	4 - Verbose	az104-vm0	Fired	New	12/23/2025, 11:26 AM
<input type="checkbox"/> VM was deleted	4 - Verbose	az104-vm0	Fired	New	12/23/2025, 11:26 AM

Showing 1 - 3 of 3 results. | Give feedback

VM was deleted

Activity log alert details

Copy link | Go to alert rule | Investigate (preview)

Summary | History

General details

Severity	Fired time	Affected resource	Monitor service	Alert condition	User response
4 - Verbose	12/23/2025, 11:26 AM	az104-vm0	ActivityLog Administrative	Fired	New

The target resource az104-vm0 has been moved or deleted.

Why did this alert fire?

The following event occurred: Microsoft.Compute/virtualMachines/delete

Event level	Category	Initiated by
Informational	Administrative	bsse2280134@szabist.pk

Task 5: Configure an alert processing rule.

Microsoft Azure | Search resources, services, and docs (G+/I) | Copilot | bsse2280134@szabist.pk

Home > Monitor | Alerts > Alert processing rules

Create an alert processing rule

Rule settings

Rule type: Suppress notifications

Scheduling

Apply the rule: At a specific time

Schedule: From 23/12/2025 at 10:00 am to 24/12/2025 at 7:00 am (UTC+05:00 Islamabad, Karachi)

Details

Subscription: Azure for Students

Resource group: zainabRG

Name: Planned Maintenance

Description: Suppress notifications during planned maintenance

Enable rule upon creation: ☒

Create | Previous

Task 6: Use Azure Monitor log queries.

This screenshot shows the 'Queries hub' in the Azure Monitor Logs section. The left sidebar contains navigation links: Overview, Activity log, Alerts, Issues (preview), Metrics, and Logs. The 'Logs' section is selected, showing a list of log types: Change Analysis, Service health, Workbooks, Dashboards with Grafana, Insights, Managed Services, and Settings. The main area displays the 'Queries hub' for 'Virtual machines'. It includes a search bar, a 'Resource type' dropdown set to 'Virtual machines', and a 'Run' button. Below the search bar, there are two example queries: 'Count heartbeats' and 'Last heartbeat of each computer'. The 'Count heartbeats' query is selected, and its details are shown: 'Count all computers heartbeats from the last hour.' The 'Run' button is visible next to the query.

This screenshot shows the 'New Query 1*' interface in the Azure Monitor Logs section. The left sidebar is the same as in the previous screenshot. The main area displays the 'New Query 1*' interface. It includes a search bar, a 'Time range' dropdown set to 'Set in query', a 'Show: 1000 results' button, and an 'Add' button. Below the search bar, there are two tabs: 'Results' and 'Chart'. The 'Results' tab is selected, showing a table with two columns: 'Computer' and 'count_'. The table contains one row with the value '12' for the 'count_' column. The 'Run' button is visible next to the query.

This screenshot shows the 'New Query 1*' interface in the Azure Monitor Logs section. The left sidebar is the same as in the previous screenshots. The main area displays the 'New Query 1*' interface. It includes a search bar, a 'Time range' dropdown set to 'Set in query', a 'Show: 1000 results' button, and a 'Run' button. Below the search bar, there are two tabs: 'Results' and 'Chart'. The 'Results' tab is selected, showing a table with three columns: 'TimeGenerated [UTC]', 'Computer', and 'avg_Val'. The table contains three rows of data. The 'Run' button is visible next to the query.

```
1 // Count heartbeats
2 // Count all computers heartbeats from the last hour.
3 // Count computers heartbeats in the last hour.
4 // Normally, agents on VMs generate Heartbeat event every minute.
5 InsightsMetrics
```

TimeGenerated [UTC]	Computer	avg_Val
12/23/2025, 6:20:00.000 AM	azurevmzainab	0.19281966666666667
12/23/2025, 6:15:00.000 AM	azurevmzainab	0.1680218
12/23/2025, 6:10:00.000 AM	azurevmzainab	0.650234

