

Shaheed Zulfikar Ali Bhutto Institute of Science and Technology

Department of Software Engineering

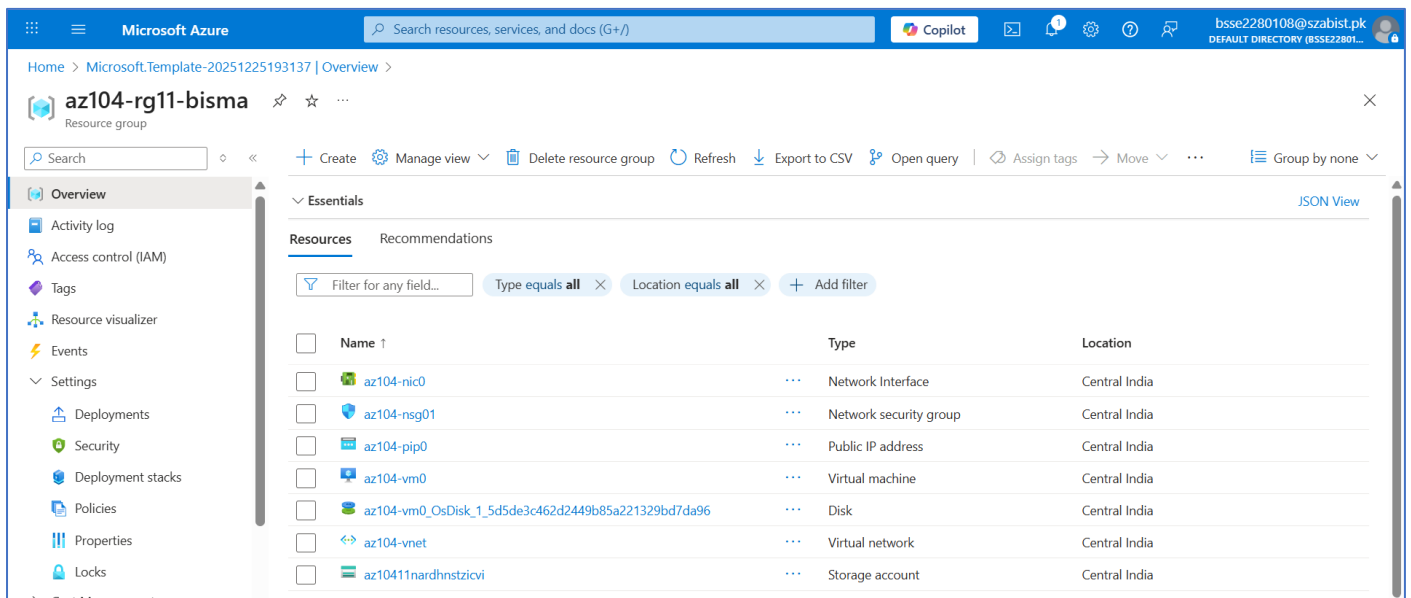
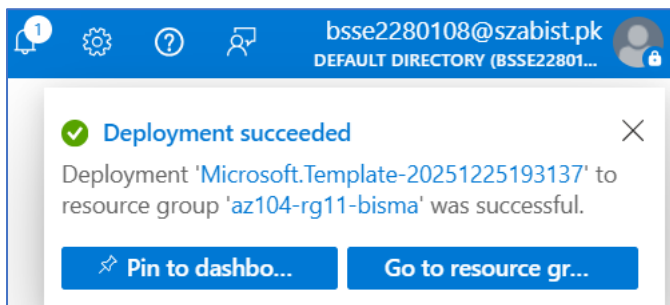
Bisma Saeed – 2280108

BSSE – 7A

Lab: 11

Implement Monitoring






Task 1: Use a template to provision an infrastructure



Microsoft Azure

Search resources, services, and docs (G+)

Copilot



bsse2280108@szabist.pk
DEFAULT DIRECTORY (BSSE22801...

Home > Monitor | Virtual Machines >

Configure monitor | az104-vm0

×

Capabilities

Review + enable

Infrastructure monitoring






Enable detailed metrics	Yes
OpenTelemetry metrics (preview)	Enabled
Azure Monitor workspace	(New) defaultazuremonitorworkspace-cid
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
Log Analytics workspace	(New) defaultworkspace-56e803bd-09a5-4d9d-8f86-770890614786-cid

Previous


Enable

Give Feedback

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Notifications

×

More events in the activity log →

Dismiss all ▾

 Onboarding successful

×

Your environment is now onboarded.

View configuration

a few seconds ago

Task 2: Create an alert

Microsoft Azure

Search resources, services, and docs (G+)

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Home > Monitor | Alerts >

Create an alert rule ...

Scope

Condition

Actions

Details

Tags

Review + create

Scope

Scope level

Resource

Subscription

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

Alert the operations team

Contain actions

1 Email

Details

Create

Previous

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Notifications

Dismiss all

More events in the activity log

Alert rule created

Alert rule VM-Deletion-Alert successfully created. It might take a few minutes for changes to be shown.

8 minutes ago

Microsoft Azure

Search resources, services, and docs (G+)

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Home > Monitor

Monitor | Virtual Machines ...

Overview

Activity log

Alerts

Issues (preview)

Metrics

Logs

Change Analysis

Service health

Workbooks

Dashboards with Grafana

Insights

Applications

Virtual Machines

Get started

Overview

Performance

Map

Filter by name...

Subscription : Azure for Students

Resource group : All resource groups

Type : All types

Location : All locations

Group 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 (0)

Workspace configuration

Other onboarding options

Name	Monitor Coverage	Data collection rule
Azure for Students	1 of 1	
az104-rg11-bisma	1 of 1	
az104-vm0	Enabled	MSVM-centralindia-az104-vm0

Task 3: Configure action group notifications

Microsoft Azure

Search resources, services, and docs (G+)

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Home >

Edit alert rule

Scope Condition Actions Details Tags Review + save

An action group is a set of actions that can be applied to an alert rule. [Learn more](#)

+ Select action groups

+ Create action group

Action group name

Alert the operations team

Contains actions

1 Email

Review + save

Previous

Next: Details >

Select action groups

Select up to five action groups to attach to this rule.

Subscription Azure for Students

Search

Action group name	Resource group	Contains actions	Location
<input checked="" type="checkbox"/> Alert the operations team	az104-rg11	1 Email	Global

Select

Task 4: Trigger an alert and confirm it is working

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Notifications

More events in the activity log →

Dismiss all

Executed delete command on 1 selected items

Succeeded: 1, Failed: 0, Canceled: 0.

a few seconds ago

You're now in the AlertOpsTeam action group

Microsoft Azure

19:03

to me

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: 56e803bd-09a5-4d9d-8f86-770890614786

Resource group name: az104-rg11

Action group name: Alert the operations team

[To unsubscribe from this action group, click here.](#)

Reply

Forward

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

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DEFAULT DIRECTORY (BSSE22801...

Home > Monitor

Monitor | Alerts

Help me setup a new alert rule Which alerts require my immediate attention Catch me up on alerts fired this week

Search

View as timeline (preview) Create Alert rules Action groups Alert processing rules Prometheus rule groups Change user response

Subscription: Azure for Students Time range: Past 24 hours Alert condition: Fired Add filter More (1)

Total alerts 6

Critical 0

Error 0

Warning 0

Informational 0

Verbose 6

Name	Severity	Affected resource	Alert condition	User response	Fire time
<input type="checkbox"/> VM was deleted	4 - Verbose	az104-vm0	Fired	New	12/25/2025, 8:25 PM
<input type="checkbox"/> VM was deleted	4 - Verbose	az104-vm0	Fired	New	12/25/2025, 8:25 PM
<input type="checkbox"/> VM was deleted	4 - Verbose	az104-vm0	Fired	New	12/25/2025, 8:25 PM
<input type="checkbox"/> VM-Deletion-Alert	4 - Verbose	az104-vm0	Fired	New	12/25/2025, 8:25 PM
<input type="checkbox"/> VM-Deletion-Alert	4 - Verbose	az104-vm0	Fired	New	12/25/2025, 8:25 PM
<input type="checkbox"/> VM-Deletion-Alert	4 - Verbose	az104-vm0	Fired	New	12/25/2025, 8:25 PM

21:09

Microsoft Azure

Azure Monitor alert 'VM-Deletion-Alert' was activated for 'az104-vm0' at December 25, 2025 15:20 UTC

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

Activity log alert VM Deletion-Alert

Time December 25, 2025 15:20 UTC

Category Administrative

Operation name microsoft.computer/virtualMachines/delete

Correlation ID 9a5c1197-77f0-4954-b258-9be85af6603b

Level Informational

Resource ID /subscriptions/56e803bd-09a5-4d9d-8f86-770890614786/resourceGroups/az104-rg11/providers/microsoft.computer/virtualMachines/az104-vm0

Caller bsse2280108@szabist.pk

Properties

["eventCategory": "Administrative", "entity": "/subscriptions/56e803bd-09a5-4d9d-8f86-770890614786/resourceGroups/az104-rg11/bisama/providers/microsoft.computer/virtualMachines/az104-vm0", "message": "microsoft.computer/virtualMachines/delete", "severity": "82d76da3-7af5-49fc-b0a4-47d75d338be4/56e803bd-09a5-4d9d-8f86-770890614786"}]

View in Azure portal

Investigate

Account information

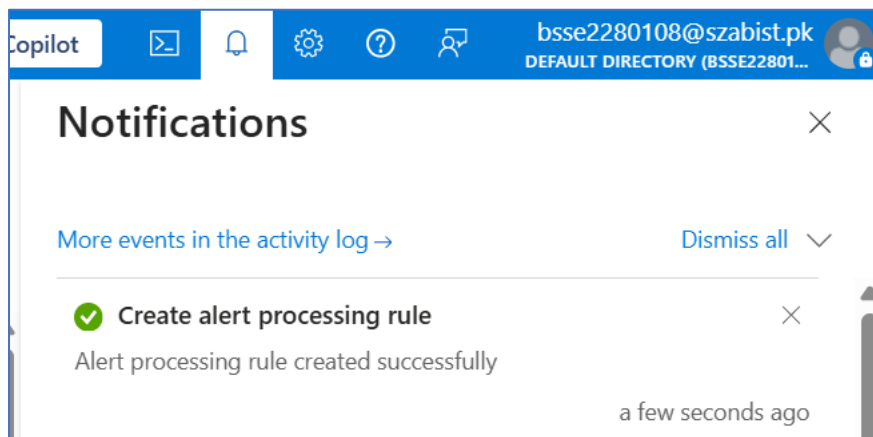
Subscription ID: 56e803bd-09a5-4d9d-8f86-770890614786

Subscription name: Azure for Students

Reply

Forward

Task 5: Configure an alert processing rule



Task 6: Use Azure Monitor log queries

