

# GUVI'S CLOUD COMPUTING USING MICROSOFT AZURE

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## Project 1: Cloud Computing With Azure

### Problem Statements With the Solutions:

#### 1. Deploy a basic web application using Azure App Service.

What are the benefits of using deployment slots, and how can they be utilized in a real-world scenario?

- Choose a unique app name (e.g., "mywebapp").
- Select a runtime stack (e.g., Node.js, .NET).
- Configure other settings (region, operating system, etc.).
- Deploy a simple HTML or sample application.
- Access the web app's URL.

### Solution:

The screenshot shows the Microsoft Azure portal interface for managing a web application named 'websid'. The main content area displays the 'Overview' tab of the 'Web app' configuration. Key details shown include:

- Resource group:** project1
- Status:** Running
- Location:** East US
- Subscription:** Free Trial
- Subscription ID:** 5d71f592-a01f-48fc-bd4e-9b9c4019dc2
- Tags:** Add tags
- Default domain:** websid.azurewebsites.net
- App Service Plan:** ASP-project1-a912
- Operating System:** Windows
- Health Check:** Not Configured

The left sidebar navigation includes sections for Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Deployment (Deployment slots, Deployment Center), Settings (Configuration, Authentication, Application Insights, Identity, Backups, Custom domains), and Monitoring.

**Created a Web Application**



Microsoft Azure

### Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.



Supporting Node.js, Java, .NET and more

Haven't deployed yet?  
Use the deployment center to publish code or set up continuous deployment.

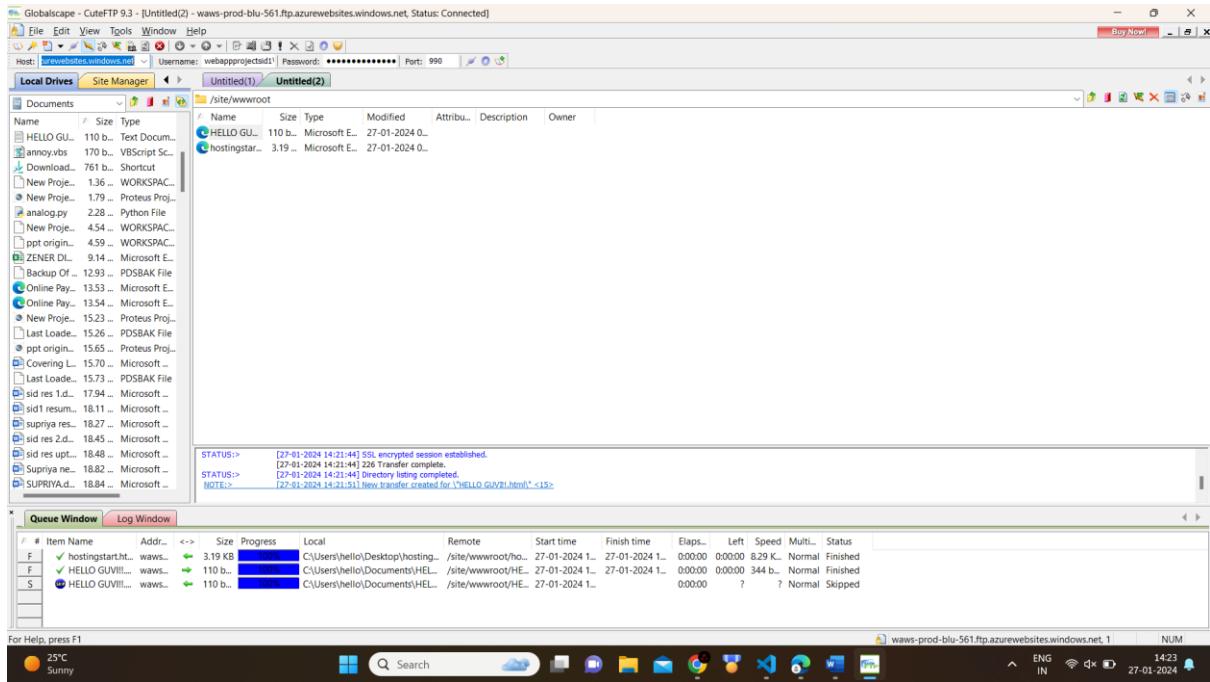
Starting a new web site?  
Follow our Quickstart guide to get a web app ready quickly.

[Quickstart](#)

[Deployment center](#)



## Opened With the Created web Application's URL



**Using cuteFTP software and FTP user credentials Successfully added my HTML file in WWWROOT**



HELLO GUVI !!...Welcome to my first project



**Successfully Deployed My Web Application with displaying My HTML file**

## 2. Configure basic monitoring for an Azure virtual machine using Azure Monitor. Create custom alerts based on specific metrics.

- Configure alerts based on CPU usage exceeding a defined threshold.
- Trigger the alert condition and receive notifications.

**Solution:**

projectvm1 - Microsoft Azure

Overview of Azure Monitor alerts

Microsoft Azure

projectvm1

Virtual machine

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Connect

Bastion

Windows Admin Center

Networking

Network settings

Load balancing

Application security groups

Network manager

Settings

Disk

Extensions + applications

Partly cloudy

27°C

Search

Connect

Start

Restart

Stop

Hibernate (preview)

Capture

Delete

Refresh

Open in mobile

Feedback

CLI / PS

Essentials

Resource group (move)	: project	Operating system	: Windows (Windows Server 2022 Datacenter Azure Edition)
Status	: Running	Size	: Standard B1s (1 vcpu, 1 GiB memory)
Location	: East US (Zone 1)	Public IP address	: 20.84.124.238
Subscription (move)	: Free_Trial	Virtual network/subnet	: projectvm1-vnet/default
Subscription ID	: 5d71f592-a01f-48fc-bd4e-9b9c4019dc2	DNS name	: Not configured
Availability zone	: 1	Health state	: -
Tags (edit)	: Add tags		

Properties

Monitoring

Capabilities (8)

Recommendations

Tutorials

Virtual machine

Computer name	: projectvm1
Operating system	: Windows (Windows Server 2022 Datacenter Azure Edition)
Image publisher	: MicrosoftWindowsServer
Image offer	: WindowsServer
Image plan	: 2022-datacenter-azure-edition
VM generation	: V2
VM architecture	: x64

Networking

Public IP address	: 20.84.124.238 ( Network interface projectvm1_21 )
Public IP address (IPv6)	-
Private IP address	: 10.0.0.4
Private IP address (IPv6)	-
Virtual network/subnet	: projectvm1-vnet/default
DNS name	: Configure

Size

ENG IN 27-01-2024 14:23

27°C 23-01-2024 10:29

**Created a New Virtual Machine**

The screenshot shows the Microsoft Azure portal interface. The main title bar says "projectvm1 - Microsoft Azure". Below it, the URL is "portal.azure.com/#@siddarthussaingmail.onmicrosoft.com/resource/subscriptions/5d71f592-a01f-48fc-bd4e-9b9c4019db2/resourceGroups/project1/providers/Microsoft.Compute/virtualM...". The top navigation bar includes "Upgrade", "Search resources, services, and docs (G+)", and a user account section. The main content area is titled "projectvm1" and "Virtual machine". On the left, there's a sidebar with sections like "Overview", "Activity log", "Access control (IAM)", "Tags", "Diagnose and solve problems", "Connect", "Bastion", "Windows Admin Center", "Networking", "Network settings", "Load balancing", "Application security groups", "Network manager", and "Settings". The main panel displays various configuration details for the VM, such as "Proximity placement group", "Location status", "Capacity reservation group", "Disk controller type", "Availability + scaling" (Availability zone: 1), "Auto-shutdown" (Auto-shutdown: Not enabled), "Security type" (Security type: Standard), "Health monitoring" (Health monitoring: Not enabled), and "Extensions + applications". The bottom of the screen shows the Windows taskbar with icons for search, file explorer, mail, browser, and other apps.

## Virtual machine features are Displayed

The screenshot shows a Microsoft Excel spreadsheet titled "Azure-Monitor-Alerts-Rules". The data is organized into columns: Name, Available, Severity, Target, sco, Target, res, Signal, Type, Status. The rows contain the following data:

	Name	Available	Severity	Target	sco	Target	res	Signal	Type	Status
1	rule2	Available	Sev3	projectvm	Virtual	ma	microsoft.	Enabled		
2				projectvm	Virtual	ma	microsoft.	Enabled		
3	cpu usage	Percentage	Sev3	Network	Network	ma	microsoft.	Enabled		
4	Network	Network	Sev3	rule2	CPU	Credit	Sev3	Enabled		
5	Percentage	Percentage	Sev3							
6	rule2	CPU	Credit	Sev3						

## Created Alert rule and Action groups

The screenshot shows the Microsoft Azure portal's Alerts page for the resource group 'projectvm1'. The left sidebar includes sections for Operations (Auto-shutdown, Run command, Updates, Health monitoring, Configuration management, Policies, Inventory, Change tracking), Monitoring (Insights, Alerts, Metrics, Diagnostic settings), and a Breaking news section. The main content area shows a summary of alerts with counts for Critical, Error, Warning, Informational, and Verbose levels. Below this is a detailed table of fired alerts, each with a checkbox, name, severity, affected resource, alert condition, user response, and fire time.

Name	Severity	Affected resource	Alert condition	User response	Fire time
rule2	3 - Informational	projectvm1	Fired	New	24/1/2024, 9:03 am
Available Memory Bytes - proj...	3 - Informational	projectvm1	Fired	New	23/1/2024, 12:00 pm

## Alert has been fired Successfully

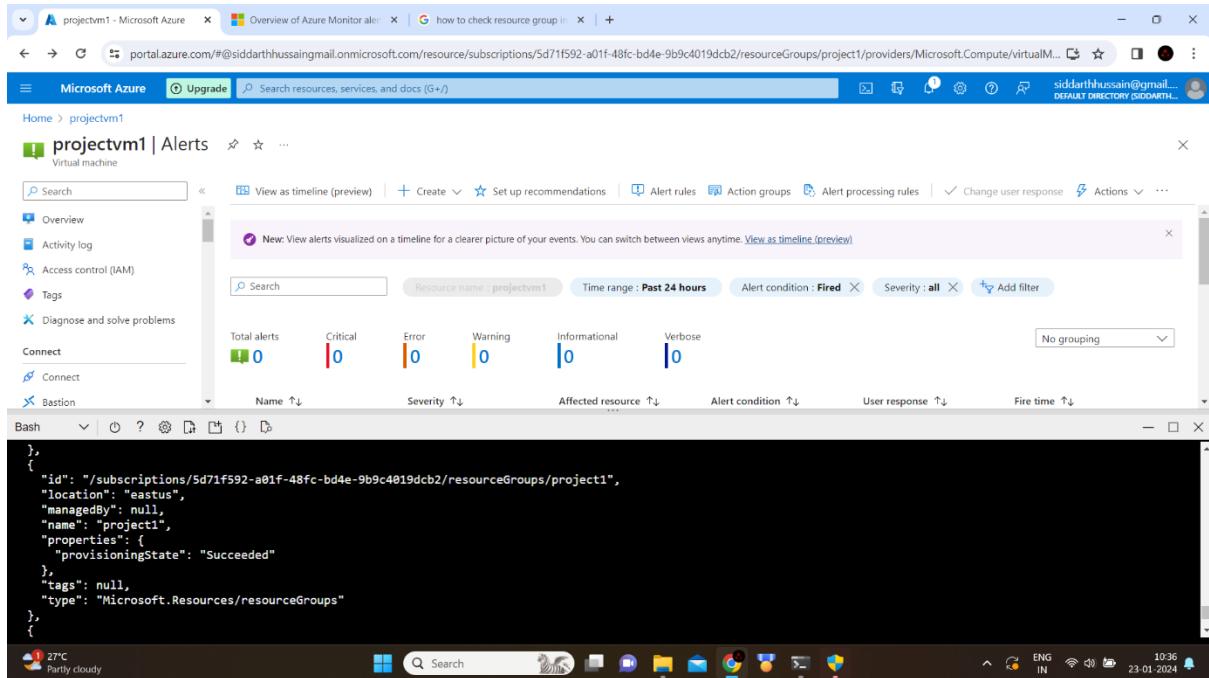
The screenshot shows an email inbox with a new message from 'Microsoft Az...'. The subject of the email is 'Fired:Sev3 Azure Monitor Alert Available Memory Bytes - projectvm1 on projectvm1 ( microsoft.compute/virtualmachines ) at 1/23/2024 6:30:21 AM'. The email body contains the same information as the alert summary in the Azure portal. Below the email is a detailed summary table of the alert's properties.

Alert name	Available Memory Bytes - projectvm1
Severity	Sev3
Monitor condition	Fired
Affected resource	projectvm1
Resource type	microsoft.compute/virtualmachines
Resource group	project1
Monitoring service	Platform
Signal type	Metric
Fire time	January 23, 2024 6:30 UTC
Alert ID	de25156f-8efc-4df8-8829-c185683cf000
Alert rule ID	<a href="https://portal.azure.com/#resource/subscriptions/5d71f592-a01f-48fc-bd4e-9b9c4019dc02/resourceGroups/project1/providers/Microsoft.C...">https://portal.azure.com/#resource/subscriptions/5d71f592-a01f-48fc-bd4e-9b9c4019dc02/resourceGroups/project1/provider</a>

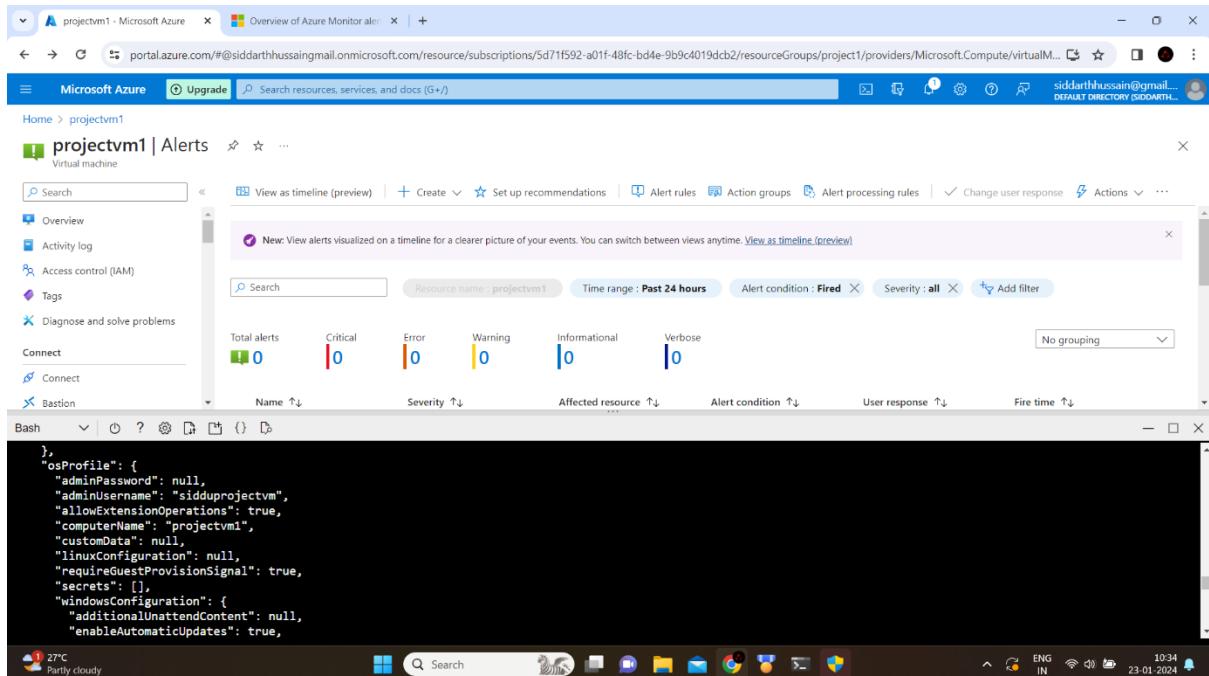
## **Notification alert for the registered Email-ID**

**3. Install Azure CLI on your machine to list resources, get information about virtual machines.**

### Solution:



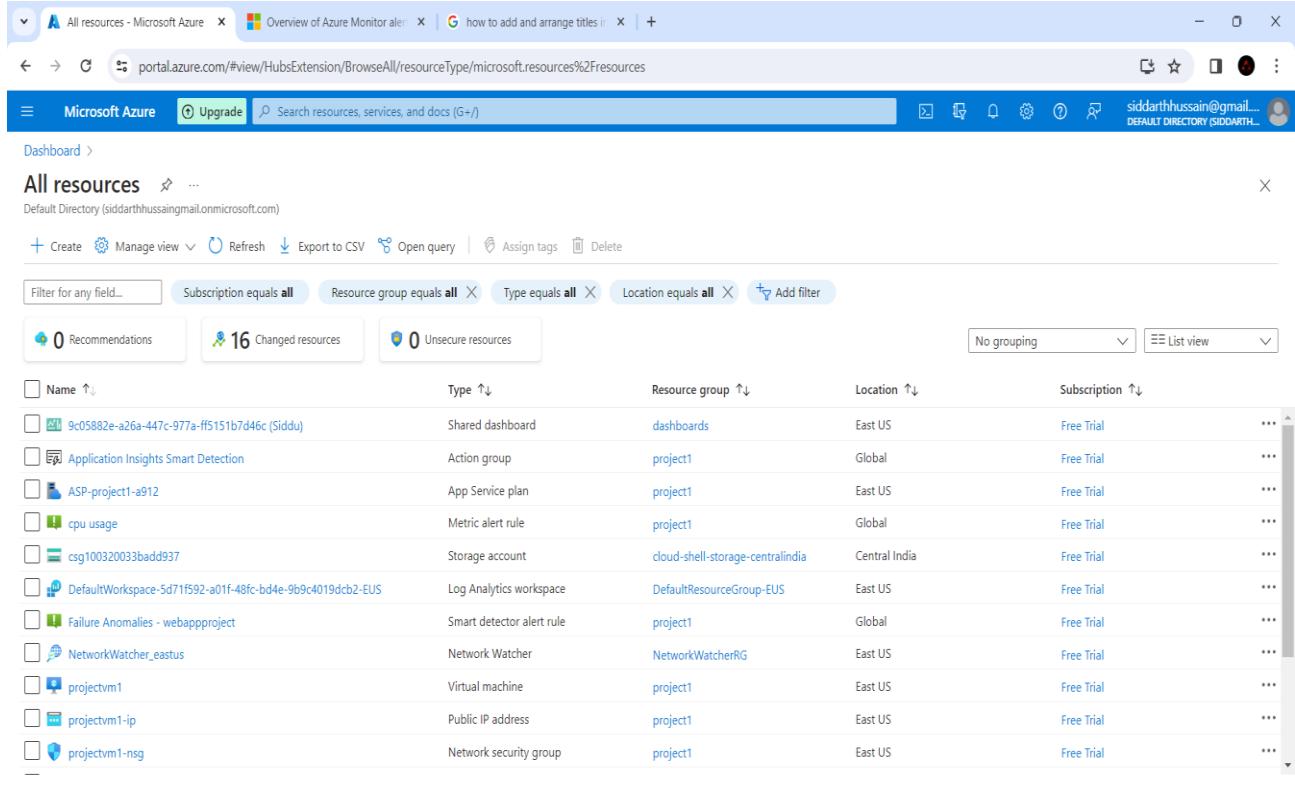
## In Azure CLI Details of the Resource Group



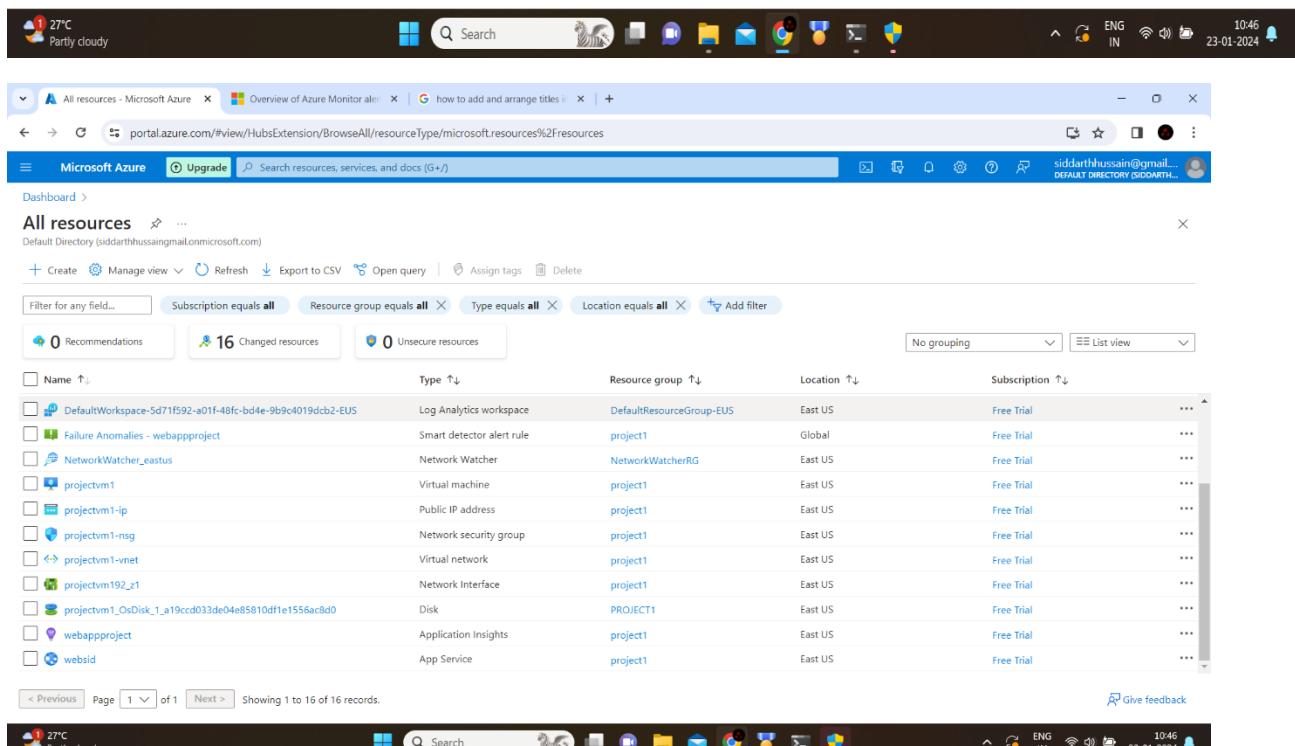
## Azure CLI is Displaying the details of Created Virtual Machine

## 4. Add and arrange tiles on the Azure dashboard to display information about your subscribed services

### Solution:



Name	Type	Resource group	Location	Subscription
9c05882e-a26a-447c-977a-ff5151b7d46c (Siddu)	Shared dashboard	dashboards	East US	Free Trial
Application Insights Smart Detection	Action group	project1	Global	Free Trial
ASP-project1-a912	App Service plan	project1	East US	Free Trial
cpu usage	Metric alert rule	project1	Global	Free Trial
csg100320033badd937	Storage account	cloud-shell-storage-centralindia	Central India	Free Trial
DefaultWorkspace-5d71f592-a01f-48fc-bd4e-9b9c4019dc2-EUS	Log Analytics workspace	DefaultResourceGroup-EUS	East US	Free Trial
Failure Anomalies - webappproject	Smart detector alert rule	project1	Global	Free Trial
NetworkWatcher_eastus	Network Watcher	NetworkWatcherRG	East US	Free Trial
projectvm1	Virtual machine	project1	East US	Free Trial
projectvm1-ip	Public IP address	project1	East US	Free Trial
projectvm1-nsg	Network security group	project1	East US	Free Trial

Name	Type	Resource group	Location	Subscription
DefaultWorkspace-5d71f592-a01f-48fc-bd4e-9b9c4019dc2-EUS	Log Analytics workspace	DefaultResourceGroup-EUS	East US	Free Trial
Failure Anomalies - webappproject	Smart detector alert rule	project1	Global	Free Trial
NetworkWatcher_eastus	Network Watcher	NetworkWatcherRG	East US	Free Trial
projectvm1	Virtual machine	project1	East US	Free Trial
projectvm1-ip	Public IP address	project1	East US	Free Trial
projectvm1-nsg	Network security group	project1	East US	Free Trial
projectvm1-vnet	Virtual network	project1	East US	Free Trial
projectvm192_1	Network Interface	project1	East US	Free Trial
projectvm1_OsDisk_1_a19cc033de04e85810df1e1556ac8d0	Disk	PROJECT1	East US	Free Trial
webappproject	Application Insights	project1	East US	Free Trial
websid	App Service	project1	East US	Free Trial

Listed and Arranged the Details of Resources and Subscription Services on the Azure Dashboard

## 5. Create a new Azure Firewall and configure rules to control inbound and outbound traffic.

### Solution:

The screenshot shows the Microsoft Azure portal interface. The main title bar reads "Microsoft.AzureFirewall-20240124112516 | Overview". On the left, there's a navigation sidebar with "Overview" selected, followed by "Inputs", "Outputs", and "Template". The main content area displays a message "... Deployment is in progress" with a progress bar. Below it, a table lists resources: project1firewall (Firewall, Created), porojectpolicy (Firewall Policy, OK), firewallnet (Virtual network, OK), projectip (Public IP address, OK), and publicip (Public IP address, OK). To the right, there's a sidebar with sections for Microsoft Defender for Cloud, Free Microsoft tutorials, Work with an expert, and Cost management.

Deployment name : Microsoft.AzureFirewall-20240124112516

Subscription : Free Trial

Resource group : project1

Start time : 24/1/2024, 11:25:40 am

Correlation ID : d3ff1c62-0559-4e9f-b258-6b817d568972

Resource Type Status Operation details

project1firewall Firewall Created Operation details

porojectpolicy Firewall Policy OK Operation details

firewallnet Virtual network OK Operation details

projectip Public IP address OK Operation details

publicip Public IP address OK Operation details

Give feedback

Tell us about your experience with deployment

Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.

Set up cost alerts >

Microsoft Defender for Cloud

Secure your apps and infrastructure

Go to Microsoft Defender for Cloud >

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Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

Find an Azure expert >

75°F Partly sunny

ENG IN 24-01-2024 11:26

This screenshot is identical to the one above, showing the deployment status of the Azure Firewall resource group. The main title bar is "Microsoft.AzureFirewall-20240124112516 | Overview". The left sidebar shows "Overview" selected. The main content area displays a message "Your deployment is complete" with a checkmark icon. Below it, a table lists the same resources as the previous screenshot. To the right, there's a sidebar with sections for Microsoft Defender for Cloud, Free Microsoft tutorials, Work with an expert, and Cost management.

Deployment name : Microsoft.AzureFirewall-20240124112516

Subscription : Free Trial

Resource group : project1

Start time : 24/1/2024, 11:25:40 am

Correlation ID : d3ff1c62-0559-4e9f-b258-6b817d568972

Resource Type Status Operation details

project1firewall Firewall Created Operation details

porojectpolicy Firewall Policy OK Operation details

firewallnet Virtual network OK Operation details

projectip Public IP address OK Operation details

publicip Public IP address OK Operation details

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ENG IN 24-01-2024 11:29

This screenshot is identical to the ones above, showing the deployment status of the Azure Firewall resource group. The main title bar is "Microsoft.AzureFirewall-20240124112516 | Overview". The left sidebar shows "Overview" selected. The main content area displays a message "Your deployment is complete" with a checkmark icon. Below it, a table lists the same resources as the previous screenshots. To the right, there's a sidebar with sections for Microsoft Defender for Cloud, Free Microsoft tutorials, Work with an expert, and Cost management.

Deployment name : Microsoft.AzureFirewall-20240124112516

Subscription : Free Trial

Resource group : project1

Start time : 24/1/2024, 11:25:40 am

Correlation ID : d3ff1c62-0559-4e9f-b258-6b817d568972

Resource Type Status Operation details

project1firewall Firewall Created Operation details

porojectpolicy Firewall Policy OK Operation details

firewallnet Virtual network OK Operation details

projectip Public IP address OK Operation details

publicip Public IP address OK Operation details

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ENG IN 24-01-2024 11:29

Successfully created a Azure Firewall

**Create an Azure Firewall Policy**

Microsoft Azure | Upgrade | Search resources, services, and docs (G+)

Home > Microsoft.AzureFirewall-20240124112516 | Overview > project1firewall | Firewall Manager | Firewall Manager | Azure Firewall Policies > Create an Azure Firewall Policy

Basics DNS Settings TLS inspection Rules IDPS Threat intelligence Tags Review + create

To create a policy, you'll first create at least one rule collection, and then you'll create rules with their associated conditions. An Azure Firewall Policy is composed of rule collection groups. A rule collection group is a collection of related rules. Rules define the action to be taken when certain conditions are met.

+ Add a rule collection Import rules from an Azure Firewall

4 item(s)

RULE COLLECTION TYPE	RULE COLLECTION	RULES	PRIORITY	ACTION	INHERITED FROM
Network	rule	▼ 1 Rule(s) allow-web	105	Allow	...
Application	rule2	▼ 1 Rule(s) deny-google	106	Deny	...

Review + create Previous Next : IDPS > Download a template for automation Give feedback

75°F Partly sunny ENG IN 11:45 24-01-2024

Microsoft Azure | Upgrade | Search resources, services, and docs (G+)

Home > Microsoft.AzureFirewall-20240124112516 | Overview > project1firewall | Firewall Manager | Firewall Manager | Azure Firewall Policies > Create an Azure Firewall Policy

Validation passed

Basics DNS Settings TLS inspection Rules IDPS Threat intelligence Tags Review + create

Summary

Basics

Subscription	Free Trial
Resource group	project1
Name	policy2
Region	East US
Policy tier	Basic

Rules

Parent policy None

Rule collections

RULE COLLECTION TYPE	RULE COLLECTION	PRIORITY
Network	rule	105
Application	rule2	106

## Created Rules and Policies to control Inbound and Outbound Traffic

**project1firewall**

Resource group (move) : project1

Location : East US

Subscription (move) : Free Trial

Subscription ID : 5d71f592-a01f-48fc-bd4e-9b9c4019db2

Virtual network : firewallvnet

Firewall policy : policy2

Provisioning state : Succeeded

SKU : Basic(change)

Subnet : AzureFirewallSubnet

Public IP : publicip

Private IP : 10.2.0.4

Management subnet : AzureFirewallManagementSubnet

Management public IP : projectip

Private IP Ranges : Managed by Firewall Policy

Route Server (preview) : Add

Tags (edit) : Add tags

**Firewall policy**

Visit Azure Firewall Manager at the link below to edit the Firewall Policy on this firewall

Policy : policy2 (change)

Auto-learn IP Prefixes : Disabled

**Rules**

DNAT rules : 0 rules in 0 collections

Network rules : 1 rule in 1 collection

## Firewall created With Network Rules and Policies

### 6. Set up an Azure Storage account with Blob storage and upload a file to the Azure Blob Container and configure access settings.

#### Solution:

**project1storagesid\_1706078304950**

Resource group (move) : project1

Location : eastus

Subscription (move) : Free Trial

Subscription ID : 5d71f592-a01f-48fc-bd4e-9b9c4019db2

Disk state : Available

Tags (edit) : Add tags

**Properties**

Performance : Standard

Replication : Locally-redundant storage (LRS)

Account kind : StorageV2 (general purpose v2)

Provisioning state : Succeeded

Created : 1/24/2024, 12:08:40 PM

**Blob service**

Hierarchical namespace : Disabled

Default access tier : Cool

Blob anonymous access : Disabled

Blob soft delete : Enabled (7 days)

Container soft delete : Enabled (7 days)

Versioning : Disabled

Change feed : Enabled

NFS v3 : Disabled

All user generated notifications : Disabled

**Security**

Require secure transfer for REST API operations : Enabled

Storage account key access : Enabled

Minimum TLS version : Version 1.2

Infrastructure encryption : Disabled

**Networking**

Allow access from : All networks

Number of private endpoint connections : 0

## Created a new Standard Storage Account to Store Blobs

demo - Microsoft Azure

demo - Microsoft Azure

project1storagesid | Containers > demo

Search

Overview

Authentication method: Access key (Switch to Microsoft Entra user account)

Location: demo

Search blobs by prefix (case-sensitive)

Add filter

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
<input checked="" type="checkbox"/> images (16).jpeg.jpg	24/1/2024, 12:17:35 ...	Cool (Inferred)		Block blob	28.86 KIB	Available
<input type="checkbox"/> Screenshot_2024-01-23-13-20-22-94_e307a3f9df9380eba106e1dc980bb6.jpg	24/1/2024, 12:15:14 ...	Cool (Inferred)		Block blob	445.05 KIB	Available



## Created containers and uploaded the blobs

As Through private access disabled the result will be:

Screenshot\_2024-01-23-13-20-20-22-94\_e307a3f9df9380eba106e1dc980bb6.jpg

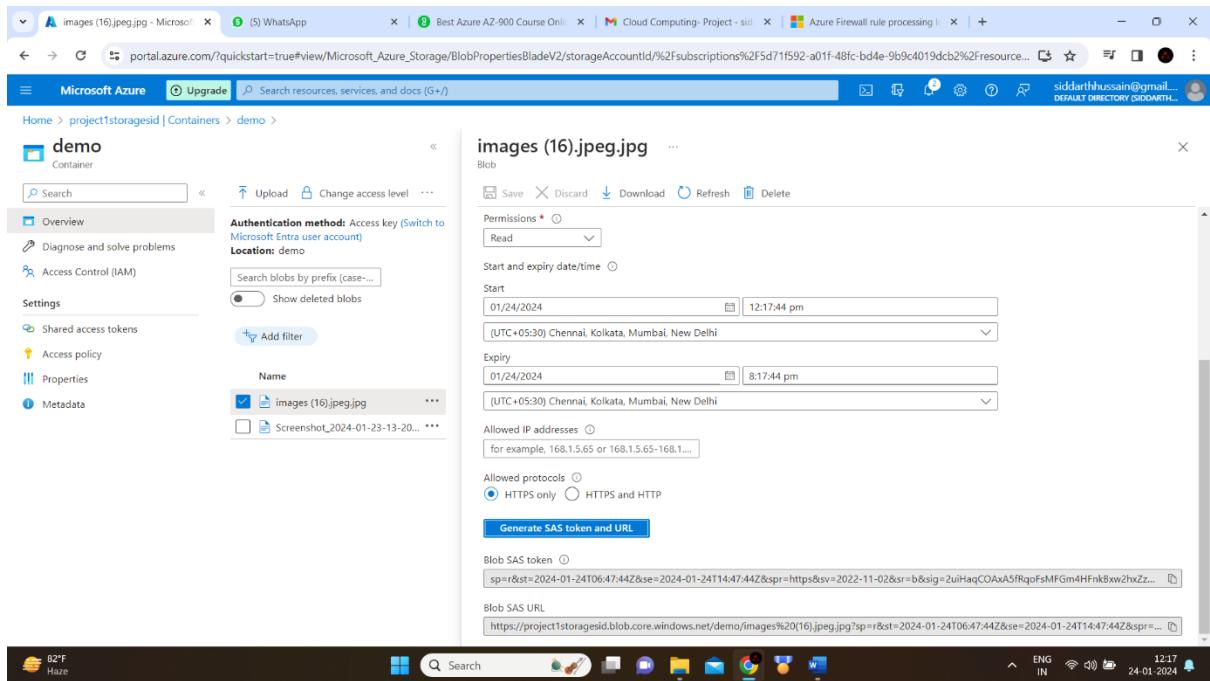
This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<Error>
  <Code>PublicAccessNotPermitted</Code>
  <Message>Public access is not permitted on this storage account. RequestId:ee8826dd-601e-002a-6391-4e4876000000 Time:2024-01-24T06:49:14.4362389Z</Message>
</Error>
```

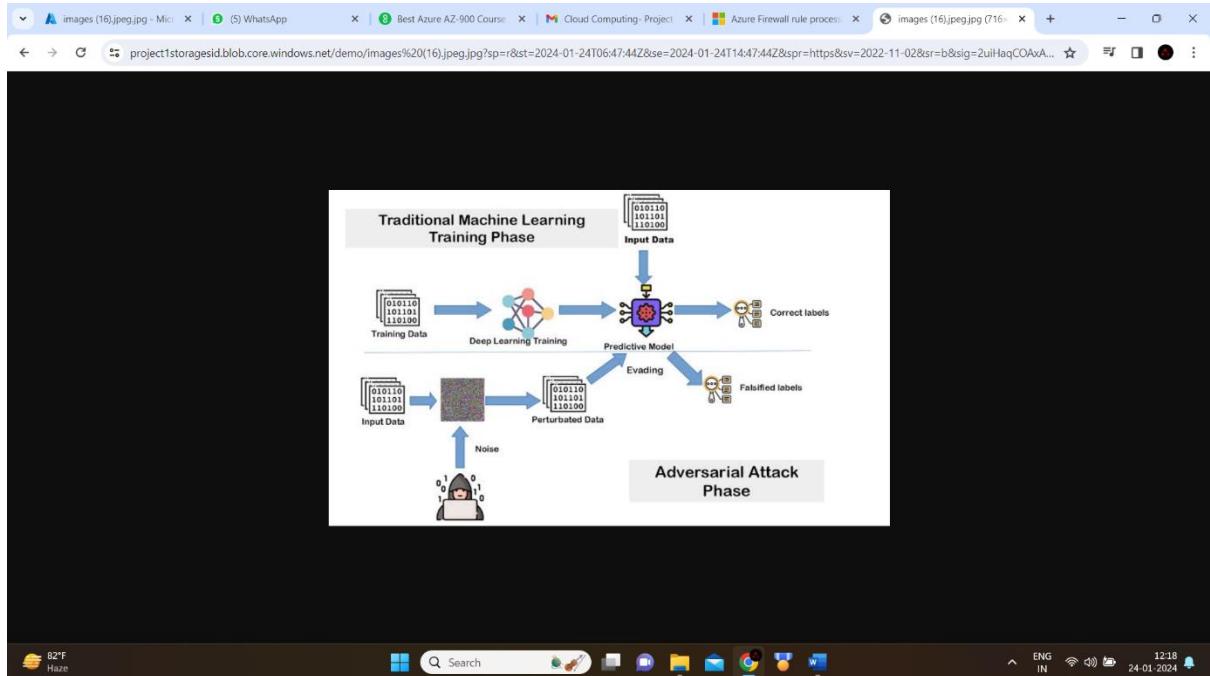


It will be shown as “Resource not found”

## So we have to Generate SAS key and Access the URL:



After Through the Blob SAS URL the result is:



The uploaded Blob will be Downloaded and Displayed

## 7. Create a new Azure Virtual Network with a defined IP address range and associated subnet.

- Name the virtual network (e.g., "MyVNet").
- Specify the IP address range (e.g., 10.0.0.0/16).
- Add a subnet named "MySubnet" with the address range (e.g., 10.0.0.0/24).

### Solution:

Project details

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

Subscription \*: Free Trial

Resource group \*: project1

Create new

Virtual network name \*: vnet1

Region \*: (US) East US

Deploy to an edge zone

Previous Next Review + create Give feedback

Created a new Vnet

Add a subnet

Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. [Learn more](#)

Subnet purpose: Default

Name \*: default2

IPv4

Include an IPv4 address space:

IPv4 address range \*: 10.0.0.0/17

Starting address \*: 10.0.1.0

Size: /24 (256 addresses)

Subnet address range: 10.0.1.0 - 10.0.1.255

IPv6

Include an IPv6 address space:  This virtual network has no IPv6 address ranges.

Private subnet: [PREVIEW](#)

Private subnets enhance security by not providing default outbound access. To enable outbound connectivity for virtual machines to access the internet, it is necessary to explicitly grant outbound access. A NAT gateway is the recommended way to provide outbound connectivity for virtual machines in the subnet. [Learn more](#)

Previous Next Review + create Add Cancel

Created a new Vnet and given the IP address(Ipv4)

The screenshot shows the Azure portal interface for managing a virtual network. On the left, a sidebar lists various settings like Address space, Connected devices, and Subnets. The 'Subnets' option is selected. In the main pane, a table displays existing subnets: 'default' (10.0.0.0/24), 'default2' (10.0.1.0/24), and 'mysubnet' (10.0.2.0/24). A search bar at the top allows filtering by subnet name.

**Added a New Subnet “mysubnet”**

## 8. Implement a solution to automatically scale the virtual machine resources to handle higher workloads and scale back during periods of low demand.

### Solution:

This screenshot shows the Azure Monitor blade for virtual machines. The sidebar includes options like Overview, Activity log, Alerts, Metrics, Logs, Change Analysis, Service health, Workbooks, Insights, Applications, and Virtual Machines, with 'Virtual Machines' currently selected. The main area shows monitoring details for one VM, 'projectvm', which is monitored and has 1 of 1 monitor coverage. The status is 'Enabled'.

**Autoscaling is not available for free subscription “monitoring of the virtual machine has been initiated to handle higher workloads**

The screenshot shows the Microsoft Azure Monitor - Autoscale blade. On the left, there's a sidebar with links like Home, Monitor, Insights Hub, Managed Services, Settings, and Support + Troubleshooting. The main area has a search bar and a table titled 'Autoscale'. The table has columns: Name, Resource type, Resource group, Location, Instance count, and Autoscale status. One row is visible: 'ASP-project1-a912' (App Service plan), 'project1', 'East US', '0', and 'Not Available'. At the bottom of the table, there's a message: 'Autoscaling has been disabled due to Subscription'.

**Autoscaling has been disabled due to Subscription**

## 9. Create a new Azure Storage account with Table storage.

- Create a table (e.g., "Employee") in Table storage.
- Insert a record with sample data (e.g., EmployeeID, Name, Department).
- Use Azure Storage Explorer or Azure portal to query and view the inserted data.

### Solution:

The screenshot shows the Microsoft Azure Storage Explorer interface. The left pane shows a tree view of storage accounts, containers, and tables. The right pane shows a table named 'PartitionKey' with an 'Add Entity' dialog open. The dialog has fields for PartitionKey (set to 'siddhu'), Rowkey (set to 'administrator'), Employeeid (set to '010'), Place (set to 'chennai'), and Gender (set to 'male'). At the bottom of the dialog, there are 'Insert' and 'Cancel' buttons. Below the dialog, a list of recent actions is shown, including connecting to a new account and adding a new connection.

**Adding the entity through Azure Storage Explorer**

PartitionKey	RowKey	EmployeeId	Place	Gender	Times
hussain	manager	001	chennai	male	2024-I
ram	developer	020	vijayawada	male	2024-I
siddu	administrator	010	chennai	male	2024-I
supriya	intern	040	bangalore	female	2024-I
suresh	software engineer	030	vijayapura	male	2024-I
yoshitha	trainer	050	bangalore	female	2024-I

**Added entity by Azure Explorer and it is viewed in Azure Portal**

## 10. Ensure proactive monitoring of your Azure resources and receive alerts for potential issues.

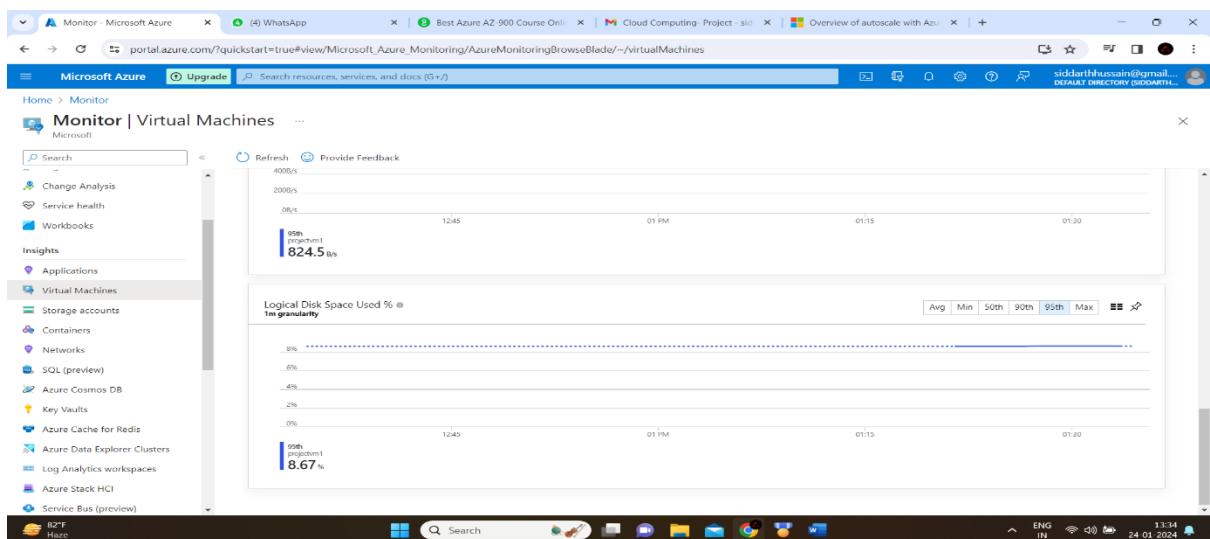
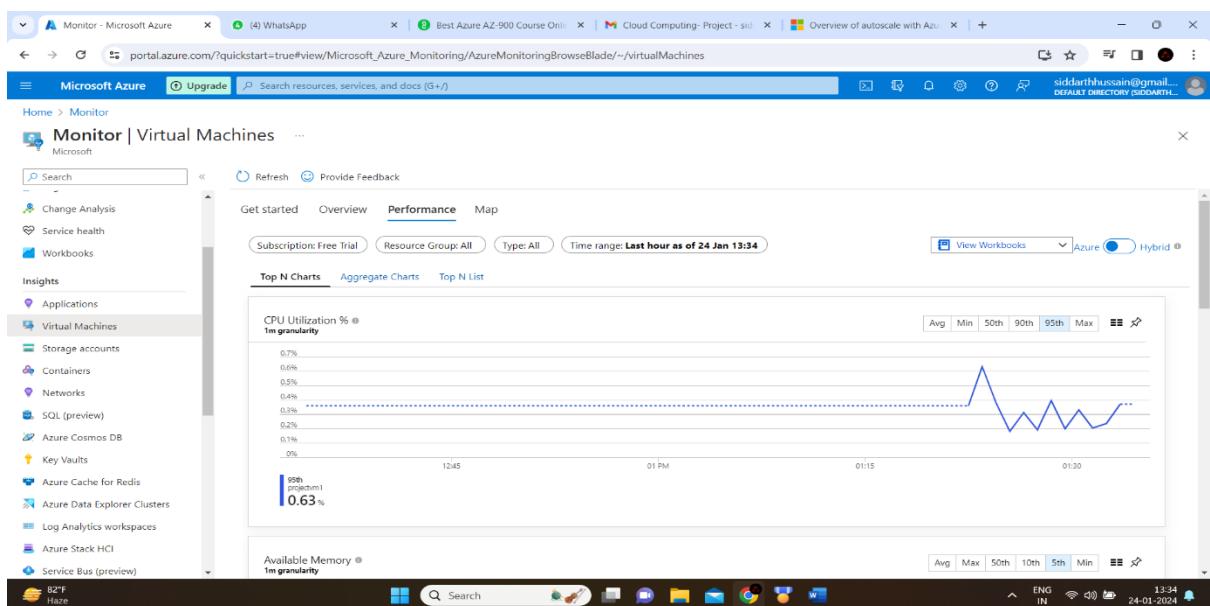
- Set up Azure Monitor for key resources, such as virtual machines and databases.
- Configure custom metrics and log alerts based on specific thresholds.
- Create action groups to define notification methods (e.g., email, SMS) for alert responses.
- Validate the alerting system by intentionally triggering an alert condition.

### Solution:

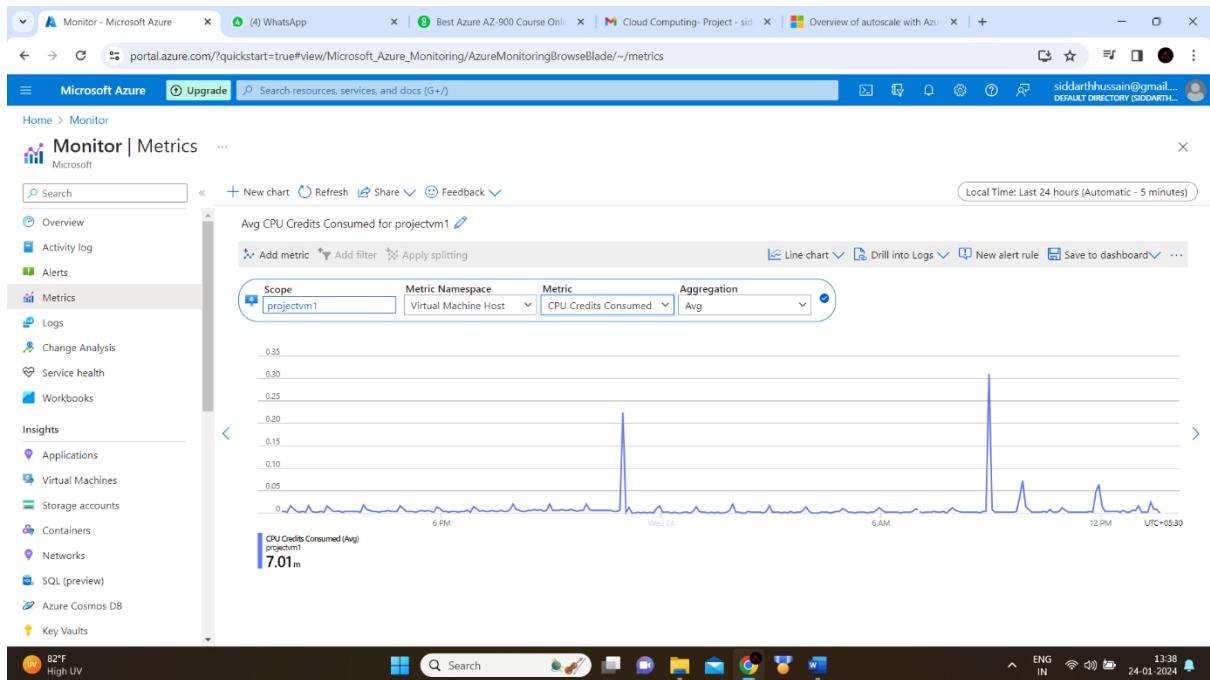
This will also enable System Assigned Managed Identity, in addition to existing User Assigned identities (if any).  
Note: Unless specified in the request, the machine will default to using System Assigned Identity. [Learn More](#)

**Setting up the monitoring for the Virtual Machine**

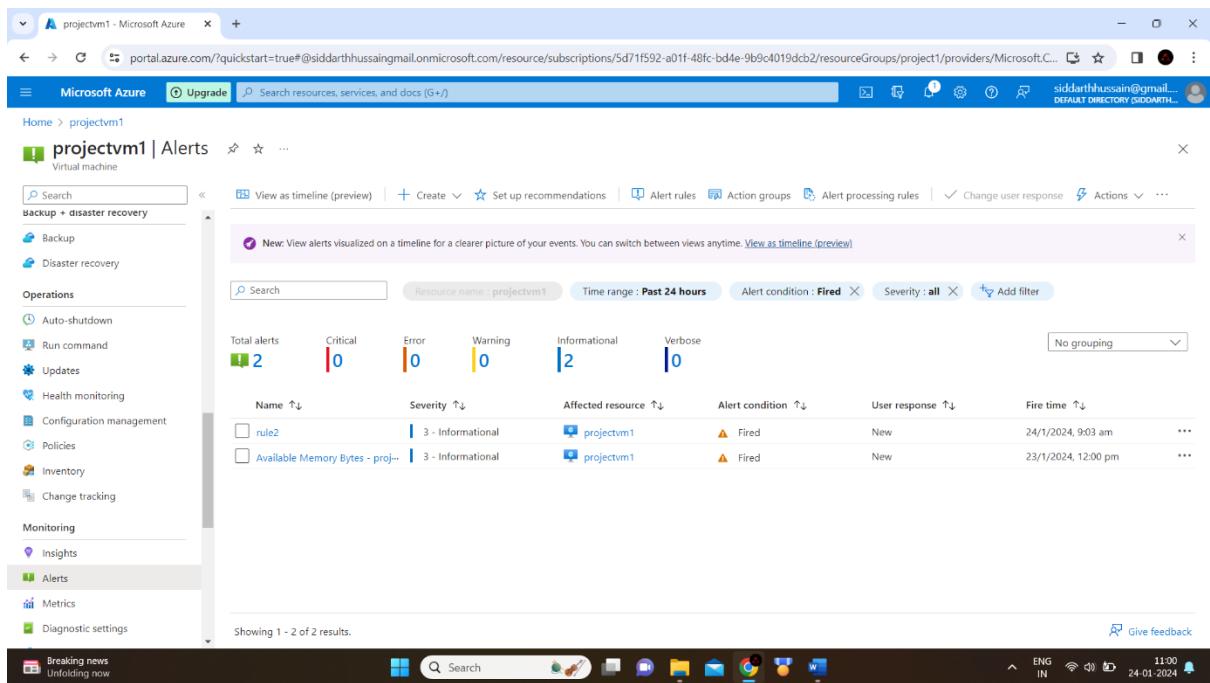
The screenshot shows the Microsoft Azure Resources page for the workspace 'MSVMI-DefaultWorkspace-5d71f592-a01f-48fc-bd4e-9b9c4019dcdb2-EUS'. The left sidebar is collapsed. The main area displays a table with one row for 'projectvm1', which is a 'Virtual machine' located in 'East US'. The table includes columns for Name, Type, Location, Data collection endpoint, Resource group, and Subscription. A 'Create endpoint' button is available for the resource group 'project1'. The subscription is listed as 'Free Trial'. The status bar at the bottom shows the date as 24-01-2024 and the time as 13:27.



## Setting up the Monitoring and CPU usage alerts



## Custom Metrics and average CPU Credits

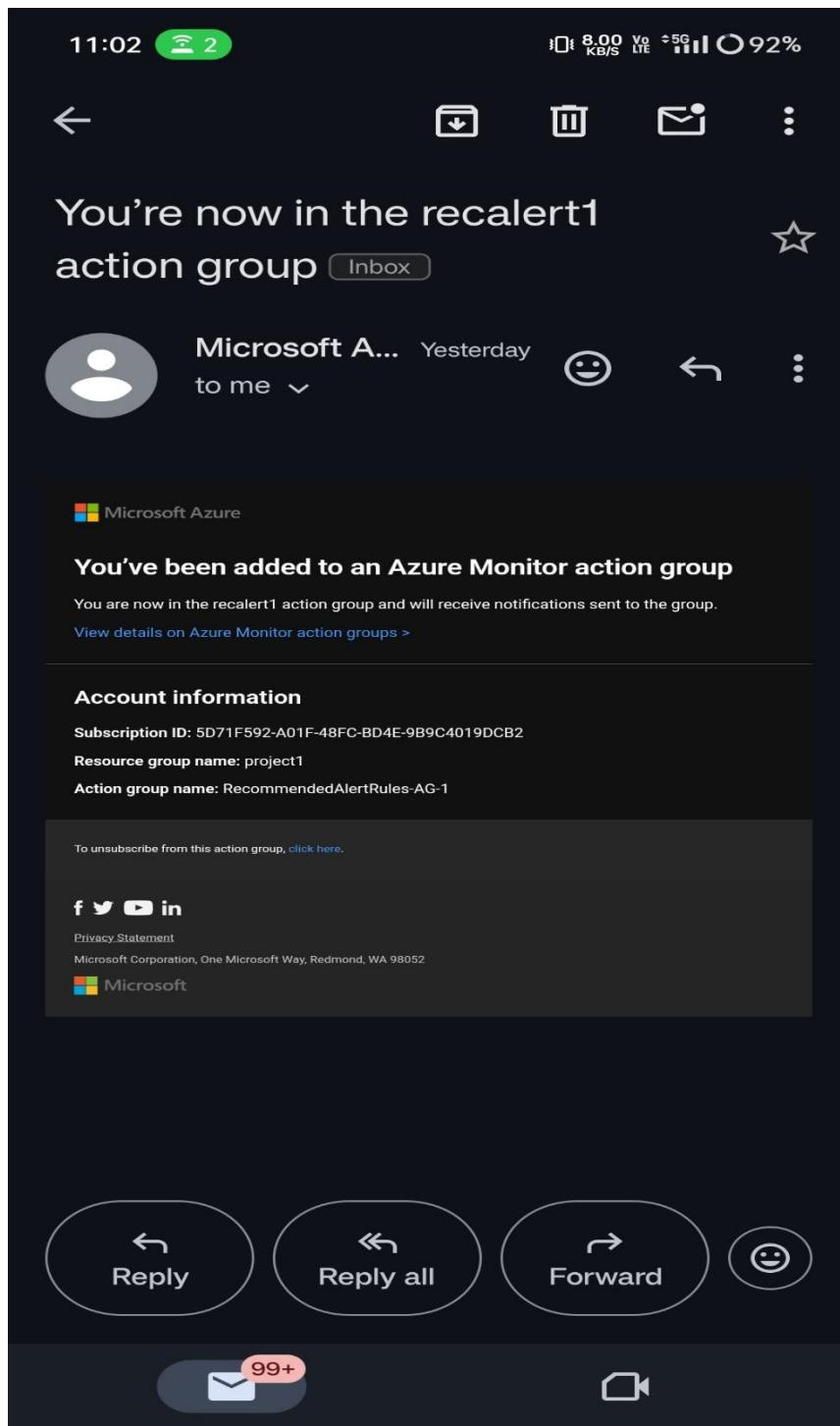


## Alerts for the virtual machines

**It is indicated that alert has been fired it will be giving a warning to that particular rule allocated to the alerts.**

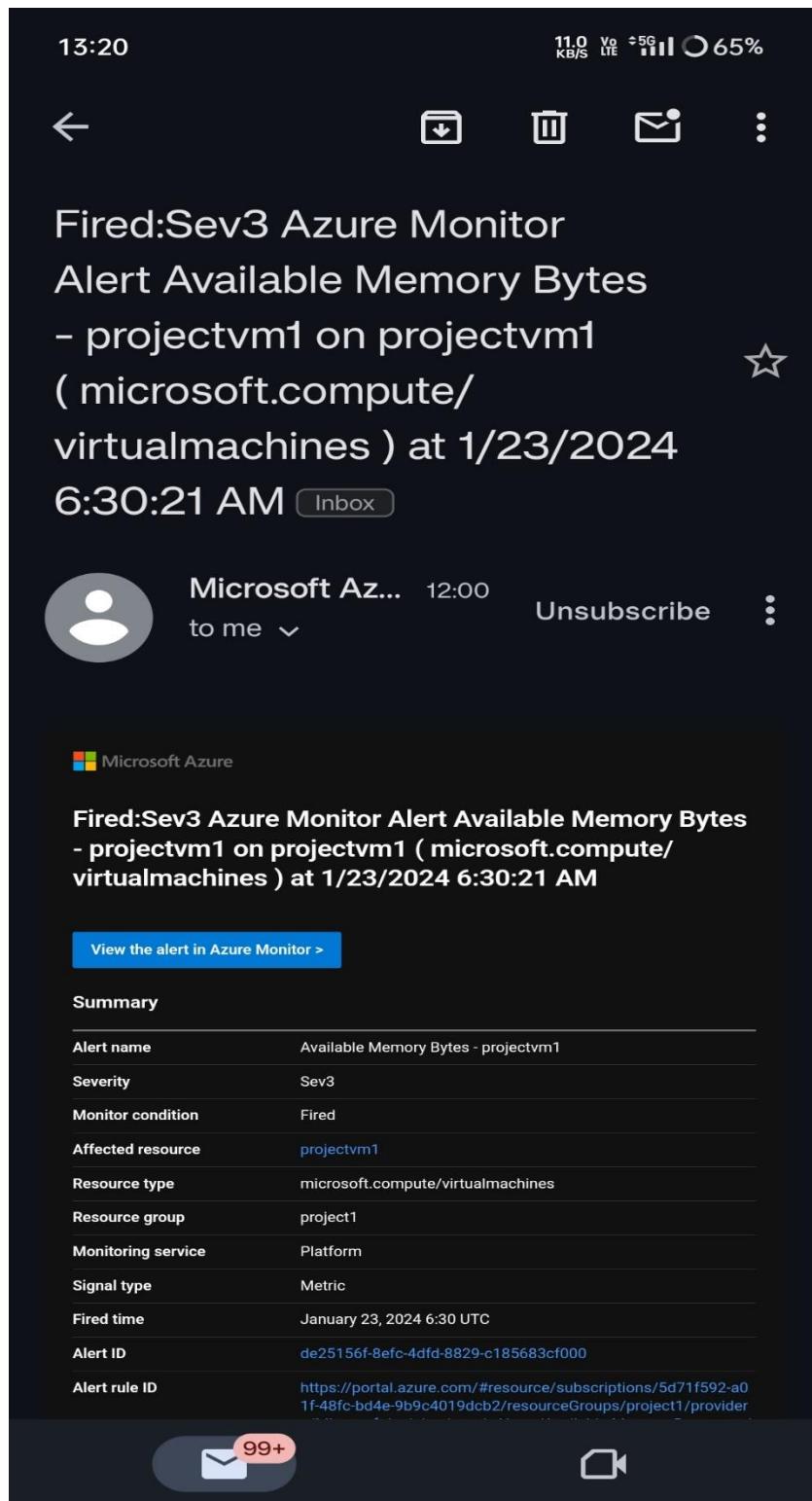
**So after that alert has been fired the notification will be sent to the registered email-id or device.**

## ACTION GROUP NOTIFICATION:



**Added to Azure Monitor Action Groups**

## ALERT NOTIFICATION:



Notification alert which has been triggered through Azure portal