

00:00:00



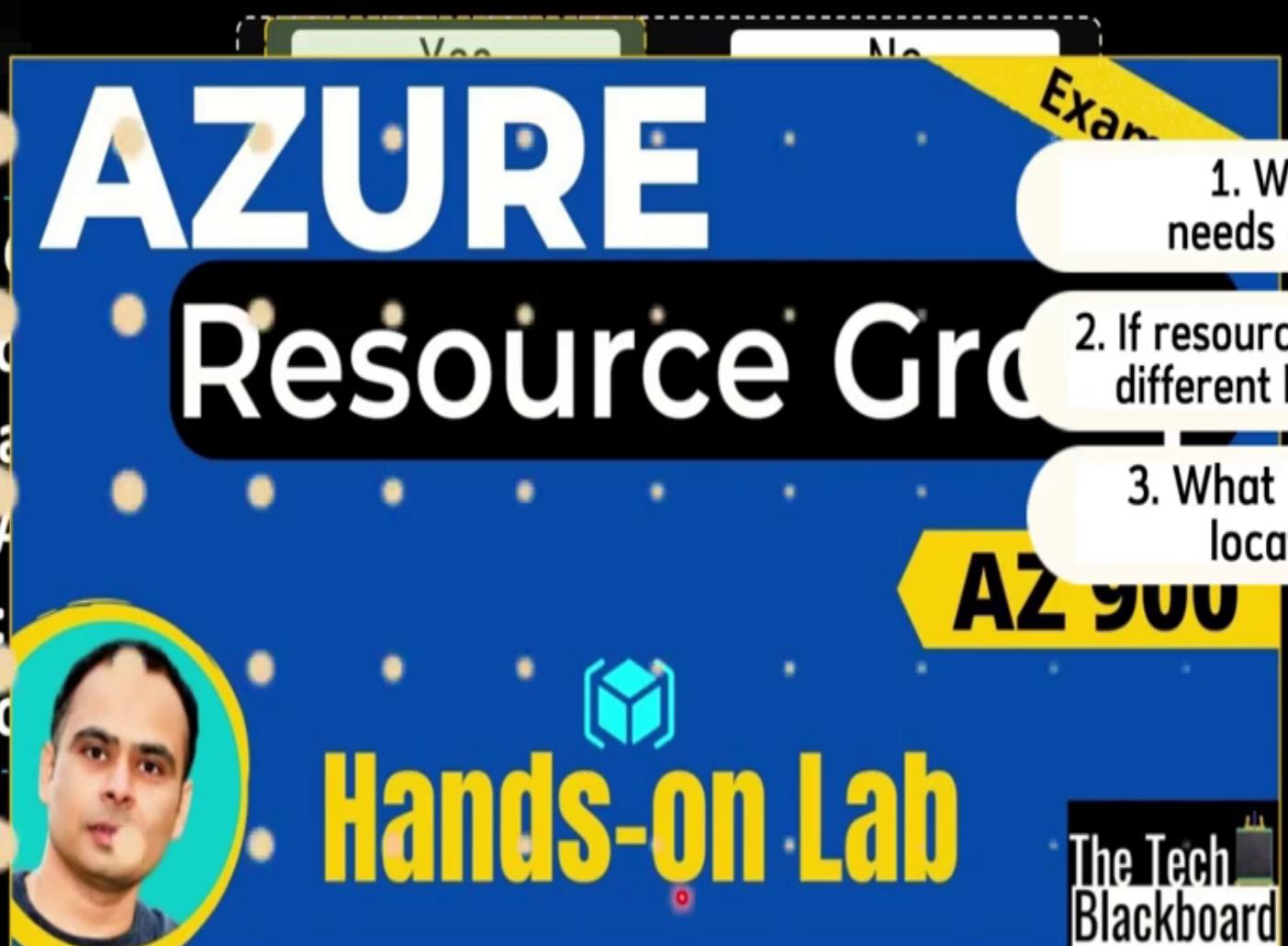


AZ 900
2023





Q A company is planning on deploying Microsoft Azure resources to a Resource Group (RG1). But the resources would belong to different locations. Can you have resources that belong to the same resource group but be in multiple locations?



A presentation slide titled "AZURE Resource Group Hands-on Lab". The slide features a large blue background with white text. At the top left, there is a small navigation bar with tabs for "Home", "About", "Contact", "Logout", and "Logout". Below the title, there is a list of bullet points on the left side:

- Resource Groups
- Storage accounts
- Virtual Machines
- Function Apps
- Web Apps
- Data Factories

The main title "AZURE Resource Group Hands-on Lab" is centered in large white font. To the right of the title, there is a yellow speech bubble containing three numbered questions:

1. Why a RG needs a location?
2. If resources inside RG have different location than RG
3. What is important of location in RG?

In the bottom left corner, there is a circular portrait of a man with dark hair and a beard, wearing a yellow shirt. In the bottom right corner, there is a yellow hexagonal badge with the text "AZ 900". At the very bottom right, there is a logo for "The Tech Blackboard" featuring a stylized computer monitor icon.

Q62: Microsoft SQL Server 2019 installed on an Azure virtual machine is an example of Platform as a Service (PaaS).

Yes

No *

Q62: Microsoft SQL Server 2019 installed on an Azure virtual machine is an example of Platform as a Service (PaaS).

Yes

No

Q63: Azure SQL Database is an example of Platform as a Service (PaaS).

Yes

No



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SQL Server on Azure Virtual Machines

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Azure SQL family

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Migrate SQL Server to virtual machines and save

SQL Server on Azure Virtual Machines is part of the [Azure SQL family](#) of databases. Migrate your SQL Server workloads to the cloud to get the performance and security of SQL Server combined with the flexibility and hybrid connectivity of Azure. Lower your total cost of ownership (TCO)¹ and get free, built-in security and automated management when you register your virtual machines (VMs) with the [SQL Server IaaS Agent extension](#) at no extra cost.



160%



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Frequently asked questions about SQL Server on Azure Virtual Machines

- > [What is the Azure Hybrid Benefit for SQL Server?](#)
- > [Which operating systems are supported?](#)
- > [What's the status of the SQL Server on Azure Virtual Machines Ultra Disk Storage offering?](#)
- > [Do I need to have active Software Assurance on SQL Server 2008/2008 R2 or 2012 licenses to qualify for three years of extended support in Azure IaaS?](#)

- ▼ [What are the differences between SQL Server on Azure Virtual Machines and Azure SQL Managed Instances?](#)

SQL Server on Azure Virtual Machines (IaaS) is a fast and straightforward migration option, but it requires a more hands-on approach to database administration. You'll

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> **Do I need to have active Software Assurance on SQL Server 2008/2008 R2 or 2012 licenses to qualify for three years of extended support in Azure IaaS?**

▼ **What are the differences between SQL Server on Azure Virtual Machines and Azure SQL Managed Instance?**

SQL Server on Azure Virtual Machines (IaaS) is a fast and straightforward migration option, but it requires a more hands-on approach to database administration. You'll continue to purchase, install, and manage your own software, including operating systems and applications. Azure SQL Managed Instance (PaaS) eliminates day-to-day administration but may require changes to the application code. Automated features boost performance and data protection, while serverless and hyperscale automatically scale compute and storage.



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Q62: Microsoft SQL Server 2019 installed on an Azure virtual machine is an example of Platform as a Service (PaaS).

Yes

No

Q63: Azure SQL Database is an example of Platform as a Service (PaaS).

Yes

No



61

68

80



Q64: Azure Cosmos DB is an example of Platform as a Service (PaaS).

Yes

No

Q65: Azure Cosmos DB is an example of Serverless.

Yes

No



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CONTINUE

Azure Cosmos DB resource
model

> Modeling and partitioning

> Partitioning and horizontal
scaling

> Throughput (Request units)

> Containers and items

> Change feed

> Integrated cache

> Analytics with Azure Synapse

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Training

Learning paths and modules

[AZ-204: Develop solutions that use
Azure Cosmos DB - Training](#)

AZ-204: Develop solutions that use Azure
Cosmos DB

Learning certificate

[Microsoft Certified: Azure Cosmos
DB Developer Specialty -
Certifications](#)

Azure Cosmos DB developers design and
implement data models and data
distribution, load data into an Azure...

Azure Cosmos DB resource model

Article • 10/12/2022 • 8 minutes to read • 7 contributors

Feedback

In this article

[Elements in an Azure Cosmos DB account](#)

[Azure Cosmos DB databases](#)

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Azure Cosmos DB resource

model

> Modeling and partitioning

> Partitioning and horizontal scaling

> Throughput (Request units)

> Containers and items

> Change feed

> Integrated cache

> Analytics with Azure Synapse Link

> Back up and restore

> Global distribution

> Manage back up and restore

> Security

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Elements in an Azure Cosmos DB account

Azure Cosmos DB databases

Azure Cosmos DB containers

Azure Cosmos DB items

Next steps

APPLIES TO: NoSQL MongoDB Cassandra Gremlin Table

Azure Cosmos DB is a fully managed platform-as-a-service (PaaS). To begin using Azure Cosmos DB, create an Azure Cosmos DB account in an Azure resource group in your subscription. You then create databases and containers within the account.

Your Azure Cosmos DB account contains a unique DNS name and can be managed using the Azure portal, ARM or Bicep templates, Azure PowerShell, Azure CLI, or any of the Azure Management SDK's or REST API. For more information, see [how to manage your Azure Cosmos DB account](#). For replicating your data and throughput across multiple Azure regions, you can add and remove Azure regions to your account at any time. You can configure your account to have either a single region or multiple write regions. For more information, see [how to add and remove Azure regions to your account](#). You can configure the default consistency level on an account.

Learning certificate

Microsoft Certified: Azure Cosmos DB Developer Specialty - Certifications

Azure Cosmos DB developers design and implement data models and data distribution, load data into an Azure...

Documentation

Request Units as a throughput and performance currency in Azure Cosmos DB

Learn about how to specify and estimate Request Unit requirements in Azure Cosmos DB

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Try Azure Cosmos DB free. No credit card required. Test your apps, deploy, and run small workloads free for 30 days....

Partitioning and horizontal scaling in Azure Cosmos DB

Learn about partitioning, logical, physical partitions in Azure Cosmos DB, best practices when choosing a partition key,...

SQl Server on Azure Virtual Ma X Azure Cosmos DB resource m... Consumption-based serverless X + https://learn.microsoft.com/en-us/azure/cosmos-db/serverless 160% X

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[Serverless](#)
Choose between autoscale and standard (manual) throughput
Choose between provisioned throughput and serverless
Best practices for scaling provisioned throughput
Burst capacity (preview)
Merge (preview)

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Azure Cosmos DB serverless

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- [Using serverless resources](#)
- [Monitoring your consumption](#)
- [Performance](#)
- [Next steps](#)

APPLIES TO:  NoSQL  MongoDB  Cassandra  Gremlin  Table

The Azure Cosmos DB serverless offering lets you use your Azure Cosmos DB...

Additional resources

 [Training](#)
Learning paths and modules
[Configure Azure Cosmos DB for NoSQL database and containers - Training](#)
Select between the various throughput offerings in Azure Cosmos DB for NoSQL.

 [Learning certificate](#)
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Azure Cosmos DB developers design and implement data models and data distribution, load data into an Azure...

Filter by title

Autoscale throughput

Serverless

Choose between autoscale and standard (manual) throughput

Choose between provisioned throughput and serverless

Best practices for scaling provisioned throughput

> Burst capacity (preview)

Merge (preview)

> Distribute throughput across partitions (preview) - container

> Containers and items

> Change feed

> Integrated cache

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Azure Cosmos DB serverless

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Feedback

In this article

[Use-cases](#)[Using serverless resources](#)[Monitoring your consumption](#)[Performance](#)[Next steps](#)APPLIES TO: NoSQL MongoDB Cassandra Gremlin Table

The Azure Cosmos DB serverless offering lets you use your Azure Cosmos DB account in a consumption-based fashion. With serverless, you're only charged for the Request Units (RUs) consumed by your database operations and the storage consumed by your data. Serverless containers can serve thousands of requests per second with no minimum charge and no capacity planning required.

 **Important**

Training

[Learning paths and modules](#)[Configure Azure Cosmos DB for NoSQL database and containers - Training](#)

Select between the various throughput offerings in Azure Cosmos DB for NoSQL.

[Learning certificate](#)[Microsoft Certified: Azure Cosmos DB Developer Specialty - Certifications](#)

Azure Cosmos DB developers design and implement data models and data distribution, load data into an Azure...

Documentation

[Optimize storage cost in Azure Cosmos DB](#)

This article explains how to manage storage costs for the data stored in Cosmos DB

Q64: Azure Cosmos DB is an example of Platform as a Service (PaaS).

Yes

No

Q65: Azure Cosmos DB is an example of Serverless.

Yes

No

Q66: You plan to provision Infrastructure as a Service (IaaS) resources in Azure. Which three resources are examples of IaaS?

- a) an Azure web app
- b) an Azure virtual machine
- c) an Azure logic app
- d) Azure Disk Storage
- e) Azure Virtual Network

What is IaaS?

Infrastructure as a service

[Overview](#) [FAQs](#) [Products](#) [Get started](#)

Infrastructure as a service (IaaS) is a type of cloud computing service that offers essential compute, storage, and networking resources on demand, on a pay-as-you-go basis. IaaS is one of the four types of cloud services, along with software as a service ([SaaS](#)), platform as a service ([PaaS](#)), and [serverless](#).

Migrating your organization's infrastructure to an IaaS solution helps you reduce maintenance of on-premises data centers, save money on hardware costs, and gain real-time business insights. IaaS solutions give you the flexibility to scale your IT resources up and down with demand. They also help you quickly provision new applications and increase the reliability of your underlying infrastructure.

IaaS lets you bypass the cost and complexity of buying and managing physical servers and datacenter infrastructure. Each resource is offered as a separate service component, and you only pay for a particular resource for as long as you need it. A [cloud computing service provider](#) like [Azure](#) manages the infrastructure, while you purchase, install, configure, and manage your own software—including operating systems, middleware, and applications.

Q67: You need to manage Azure by using Azure Cloud Shell. Which Azure portal icon should you select? To answer, select the appropriate icon in the answer area.

The screenshot shows the Microsoft Azure portal interface. At the top, there is a blue header bar with the "Microsoft Azure" logo, a search bar containing "Search resources, services, and docs (G+)", and several icons for account management (cloud, notifications, settings, help, and user). Below the header, a row of six purple star-shaped icons numbered 1 through 6 is displayed. The main content area is titled "Azure services" and contains seven service icons with their corresponding names: "Create a resource" (plus sign), "Resource groups" (hexagonal icon), "All resources" (grid icon), "Virtual machines" (monitor icon), "Storage accounts" (bar chart icon), "Help + support" (person icon), and "Cost Management ..." (dollar sign icon).



00:10:41 Azure https://portal.azure.com/#home

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

vijipin@gmail.com DEFAULT DIRECTORY (VIJIPIN...)

Azure services

- Create a resource
- Home
- Dashboard
- All services
- FAVORITES**
- All resources
- Resource groups
- Logic apps
- Virtual machines
- Storage accounts
- Help + support
- Cost Management ...
- Front Door and CDN profiles
- More services

Resources

Recent Favorite

Name	Type	Last Viewed
VijPayAsyouGO	Subscription	10 months ago

See all

Navigate

- Subscriptions
- Resource groups
- All resources
- Dashboard

Tools

- Microsoft Learn  Learn Azure with free online training from Microsoft
- Azure Monitor  Monitor your apps and infrastructure
- Microsoft Defender for Cloud  Secure your apps and infrastructure
- Cost Management  Analyze and optimize your cloud spend for free

Useful links

- Technical Documentation 
- Azure Migration Tools
- Azure Services 
- Find an Azure expert
- Recent Azure Updates 
- Quickstart Center

Azure mobile app

Download on the App Store  GET IT ON Google Play 

00:11:08 Microsoft Azu x +

https://portal.azure.com/#home

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

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Home < Home >

Create a resource

Home

Dashboard

All services

FAVORITES

All resources

Resource groups

Logic apps

Function App

SQL databases

Virtual machines

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

Activity log

Subscriptions

https://portal.azure.com/#home

Resource groups

Default Directory (vijvipinmail.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Location equals all Add filter

Unsecure resources Recommendations

No grouping List view

Name ↑ Subscription ↑ Location ↑

No resource groups to display

Try changing or clearing your filters.

Create resource group

Learn more ↗

Give feedback



00:11:17 Azure https://portal.azure.com/#home

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Azure services

- [Create a resource](#)
- [Home](#)
- [Dashboard](#)
- [All services](#)
- [FAVORITES](#)
- [All resources](#)
- [Resource groups](#)
- [Logic apps](#)
- [Function App](#)
- [SQL databases](#)
- [Virtual machines](#)
- [Storage accounts](#)
- [Virtual networks](#)
- [Azure Active Directory](#)
- [Monitor](#)
- [Advisor](#)
- [Activity log](#)
- [Subscriptions](#)

[Create a resource](#) [Resource groups](#) [All resources](#) [Logic apps](#) [Virtual machines](#) [Storage accounts](#) [Help + support](#) [Cost Management ...](#)

→ [More services](#)

Resources

Recent [Favorite](#)

Name	Type	Last Viewed
VijPayAsyouGO	Subscription	10 months ago

[See all](#)

Navigate

[Subscriptions](#) [Resource groups](#) [All resources](#)

Microsoft Azure ...

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Create a resource 

Home 

Dashboard 

All services 

FAVORITES

All resources 

Resource groups 

Logic apps 

Function App 

Azure services 

 Create a resource  Resource groups  All resources  Logic apps  Virtual machines  Storage accounts  Help + support  Cost Management ...

 →  Front Door and CDN profiles More services

You have no storage mounted X

Azure Cloud Shell requires an Azure file share to persist files. [Learn more](#)

This will create a new storage account for you and this will incur a small monthly cost. [View pricing](#)

* Subscription [Show advanced settings](#)

Creating...  Close

00:12:00 Azure https://portal.azure.com/#home

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Azure services

Create a resource Home Dashboard All services

FAVORITES

- All resources
- Resource groups
- Logic apps
- Function App

Bash PowerShell

Cloud Shell. Succeeded.

Front Door and CDN profiles More services

Create a resource Resource groups All resources Logic apps Virtual machines Storage accounts Help + support Cost Management ...

The screenshot shows the Microsoft Azure portal interface. On the left, there's a sidebar with navigation links like 'Create a resource', 'Home', 'Dashboard', and 'All services'. Below that is a 'FAVORITES' section with links to 'All resources', 'Resource groups', 'Logic apps', and 'Function App'. At the bottom of the sidebar is a 'Bash' and 'PowerShell' cloud shell icon. The main content area is titled 'Azure services' and features several large icons: a plus sign for 'Create a resource', a hexagon for 'Resource groups', a grid for 'All resources', a tree for 'Logic apps', a monitor for 'Virtual machines', a bar chart for 'Storage accounts', a person icon for 'Help + support', and a dollar sign for 'Cost Management ...'. Below these icons are two smaller sections: 'Front Door and CDN profiles' with an arrow icon, and 'More services' with a blue arrow pointing right. A search bar at the top says 'Search resources, services, and docs (G/+)'. The status bar at the bottom of the terminal window says 'Cloud Shell. Succeeded.'

```
vipin [ ~ ]$ []
```

00:12:02 Azure https://portal.azure.com/#home

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

vijvipin@gmail.com DEFAULT DIRECTORY (VUVIPING...)

Create a resource

Home

Dashboard

All services

FAVORITES

- All resources
- Resource groups
- Logic apps
- Function App

Azure services

Create a resource

Resource groups

All resources

Logic apps

Virtual machines

Storage accounts

Help + support

Cost Management ...

Front Door and CDN profiles → More services

This screenshot shows the Microsoft Azure portal's main dashboard. On the left, there's a sidebar with links like 'Create a resource', 'Home', 'Dashboard', and 'All services'. Below that is a 'FAVORITES' section with links to 'All resources', 'Resource groups', 'Logic apps', and 'Function App'. The main content area is titled 'Azure services' and features several large icons: a plus sign for 'Create a resource', a hexagon for 'Resource groups', a grid for 'All resources', a tree for 'Logic apps', a monitor for 'Virtual machines', a bar chart for 'Storage accounts', a person icon for 'Help + support', and a dollar sign for 'Cost Management ...'. Below these icons, there's a 'Front Door and CDN profiles' section with a right-pointing arrow and a link to 'More services'. At the bottom of the screen, a modal dialog box is open, prompting the user to 'Switch to PowerShell in Cloud Shell'.



00:12:03 Azure https://portal.azure.com/#home

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Azure services

Create a resource Resource groups All resources Logic apps Virtual machines Storage accounts Help + support Cost Management ...

Front Door and CDN profiles More services

+

Home Dashboard All services

FAVORITES

- All resources
- Resource groups
- Logic apps
- Function App

Bash



I

00:12:11 Azure https://portal.azure.com/#view/HubsExtension/BrowseResourceGroups

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

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Create a resource

Home

Dashboard

All services

FAVORITES

All resources

Resource groups

Logic apps

Function App

PowerShell

Requesting a Cloud Shell. **Succeeded.**
Connecting terminal...

Azure services

Create a resource

Resource groups

All resources

Logic apps

Virtual machines

Storage accounts

Help + support

Cost Management ...

Front Door and CDN profiles → More services

The screenshot shows the Microsoft Azure portal interface. On the left, there's a sidebar with navigation links like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES' (which includes 'All resources', 'Resource groups', 'Logic apps', and 'Function App'). Below the sidebar is a PowerShell terminal window with the following text:
Requesting a Cloud Shell. **Succeeded.**
Connecting terminal...

MOTD: Modules installed with 'Install-Module' are persisted across sessions

VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...
PS /home/vipin> [REDACTED]

At the top right, there's a user profile section with the email 'vijvipin@gmail.com' and 'DEFAULT DIRECTORY (VJVIPING...)'. The main content area displays 'Azure services' with icons for Create a resource, Resource groups, All resources, Logic apps, Virtual machines, Storage accounts, Help + support, and Cost Management. A large central button labeled 'Front Door and CDN profiles' has an arrow pointing to 'More services'. The URL in the browser bar is 'https://portal.azure.com/#view/HubsExtension/BrowseResourceGroups'.

```
https://portal.azure.com/#blade/HubsExtension/BrowseResourceGroupBlade/resourceType/Microsoft.Resources%2F...
```

00:12:13 Microsoft Az... +

https://portal.azure.com/#view/HubsExtension/BrowseResourceGroups

Microsoft Azure ...

vijvipin@gmail.com DEFAULT DIRECTORY (VUVIPING...) 

« Home >

Resource groups

Default Directory (vijvipinmail.onmicrosoft.com)

+ Create  Manage view  Refresh  Export to CSV  Open query |  Assign tags

Filter for any field... Subscription equals all Location equals all  Add filter

All resources  0 Unsecure resources  0 Recommendations

No grouping  List view

< Previous Page 1 of 1 Next > Showing 1 to 1 of 1 records. 

PowerShell                                                  

Requesting a Cloud Shell. **Succeeded.**
Connecting terminal...

```
MOTD: Modules installed with 'Install-Module' are persisted across sessions
```

```
VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...
PS /home/vipin> 
```

00:12:19 Microsoft Azure https://portal.azure.com/#view/HubsExtension/BrowseResourceGroups

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Microsoft Azure

Search resources, services, and docs (G+)

Home > Resource groups

Create a resource Home Dashboard All services FAVORITES All resources Resource groups Logic apps Function App SQL databases Virtual machines Storage accounts Virtual networks Azure Active Directory Monitor Advisor Activity log Subscriptions

Resource groups

Default Directory (vijvipinmail.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Location equals all Add filter

Unsecure resources Recommendations

No grouping List view

Name ↑	Subscription ↑	Location ↑
cloud-shell-storage-westeurope	VijPayAsyouGO	West Europe

< Previous Page 1 of 1 Next > Showing 1 to 1 of 1 records.

Give feedback

00:12:28 -westeurope x + https://portal.azure.com/#@vijvipinmail.onmicrosoft.com/resource/subscriptions/560f8f44-399e-4bd2-8e89-1e5e79289a69/resourceGroups/cloud-shell-storage-westeurope/overview

Microsoft Azure ...

vijvipin@gmail.com DEFAULT DIRECTORY (VJVIPING...) 

Home > Resource groups < **cloud-shell-storage-westeurope**   

 Create a resource  Home  Dashboard  All services  FAVORITES  All resources  Resource groups  Logic apps  Function App  SQL databases  Virtual machines  Storage accounts  Virtual networks  Azure Active Directory  Monitor  Advisor  Activity log  Subscriptions

...  Create  Manage view  Delete resource group  Refresh  Export to CSV  Open query ...

 Overview JSON View

 Activity log  Access control (IAM)  Tags  Resource visualizer  Events

 Deployments  Security  Policies  Properties  Locks

 Cost Management  Cost analysis

Essentials

Subscription ([move](#)) [VijPayAsyouGO](#) Deployments [No deployments](#)
Subscription ID 560f8f44-399e-4bd2-8e89-1e5e79289a69 Location West Europe
Tags ([edit](#)) [Click here to add tags](#)

Resources **Recommendations**

Filter for any field... Type equals all Location equals all [Add filter](#)

Showing 1 to 1 of 1 records. Show hidden types [?](#) [No grouping](#)

Name	Type	Location
csb1003200054fa84cd	Storage account	West Europe

 List view 

00:12:29 Acd - Microsoft Edge

https://portal.azure.com/#@vijvipinmail.onmicrosoft.com/resource/subscriptions/560f8f44-399e-4bd2-8e89-1e5e79289a69/resourceGroups/cloud-shell-storage-westeurope/providers/Microsoft.Storage/storageAccounts/cs...         

vijvipin@gmail.com DEFAULT DIRECTORY (VJVIPING...) 

Microsoft Azure      

Home > Resource groups > cloud-shell-storage-westeurope >

 csb1003200054fa84cd  

Create a resource 

Home 

Dashboard 

All services 

FAVORITES 

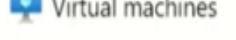
All resources 

Resource groups 

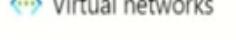
Logic apps 

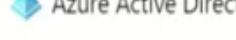
Function App 

SQL databases 

Virtual machines 

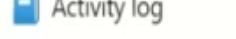
Storage accounts 

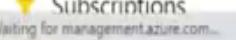
Virtual networks 

Azure Active Directory 

Monitor 

Advisor 

Activity log 

Subscriptions 

Waiting for management.azure.com...

Search 

Overview 

Activity log 

Tags 

Diagnose and solve problems 

Access Control (IAM) 

Data migration 

Events 

Storage browser 

... 

Data storage

Containers 

File shares 

Queues 

Tables 

Security + networking

00:12:53 Acd - Microsoft Edge

https://portal.azure.com/#@vijvipinmail.onmicrosoft.com/resource/subscriptions/560f8f44-399e-4bd2-8e89-1e5e79289a69/resourceGroups/cloud-shell-storage-westeurope/providers/Microsoft.Storage/storageAccounts/csb1003200054fa84cd

Microsoft Azure

Search resources, services, and docs (G+)

vijvipin@gmail.com DEFAULT DIRECTORY (VJVIPING...)

Home > Resource groups > cloud-shell-storage-westeurope >

csb1003200054fa84cd

Storage account

Upload Open in Explorer Move Refresh Open in mobile CLI / PS

JSON View

Create a resource Home Dashboard All services FAVORITES All resources Resource groups Logic apps Function App SQL databases Virtual machines Storage accounts Virtual networks Azure Active Directory Monitor Advisor Activity log Subscriptions

Overview

Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser

Data storage

Containers File shares Queues Tables

Security + networking

Search

Resource group (move) cloud-shell-storage-westeurope

Location West Europe

Subscription (move) VijPayAsyouGO

Subscription ID 560f8f44-399e-4bd2-8e89-1e5e79289a69

Disk state Available

Tags (edit) ms-resource-usage : azure-cloud-shell

Properties Monitoring Capabilities (7) Recommendations (0) Tutorials Developer Tools

Blob service Security

Hierarchical navigation Disabled Service secure transfer for REST API Enabled



00:12:55 Microsoft Az... + https://portal.azure.com/#view/HubsExtension/BrowseResourceGroups

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Microsoft Azure

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+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Location equals all Add filter

No grouping List view

Unsecure resources Recommendations

Name ↑

cloud-shell-storage-westeurope

< Previous Page 1 of 1 Next >

https://portal.azure.com/#@vijvipinmail.onmicrosoft.com/resource/subscriptions/560fb44-399e-4bd2-8e89-1e5e7...

00:12:59 e-westeuropex + https://portal.azure.com/#@vijvipinmail.onmicrosoft.com/resource/subscriptions/560f8f44-399e-4bd2-8e89-1e5e79289a69/resourceGroups/cloud-shell-storage-westeurope/overview

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Overview Activity log Access control (IAM) Tags Resource visualizer Events

Subscription (move) VijPayAsyouGO Deployment No deployments Subscription ID 560f8f44-399e-4bd2-8e89-1e5e79289a69 Location West Europe Tags (edit) Click here to add tags

Resources Recommendations

Filter for any field... Type equals all X Location equals all X Add filter

Showing 1 to 1 of 1 records. Show hidden types ⓘ No grouping

List view

Name ↑	Type ↑	Location ↑
csb1003200054fa84cd	Storage account	West Europe

Cost Management Cost analysis

00:13:06 want to delete x + https://portal.azure.com/#@vijvipinmail.onmicrosoft.com/resource/subscriptions/560f8f44-399e-4bd2-8e89-1e5e79289a69/resourceGroups/cloud-shell-storage-westeurop...

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Essentials

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Subscription ID
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Tags ([edit](#))
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Resources Recommendations

Filter for any field... List view

Showing 1 to 1 of 1 records.

Name	Type	Location
csb1003200054fa84cd	Storage account	West Europe

Are you sure you want to delete "cloud-..." X

Warning! Deleting the "cloud-shell-storage-westeurop..." resource group is irreversible. The action you're about to take can't be undone. Going further will delete this resource group and all the resources in it permanently.

TYPE THE RESOURCE GROUP NAME:

AFFECTED RESOURCES
There are 1 resources in this resource group that will be deleted.

Delete Cancel

00:13:16 -e-westeuropex + https://portal.azure.com/#@vijvipinmail.onmicrosoft.com/resource/subscriptions/560f8f44-399e-4bd2-8e89-1e5e79289a69/resourceGroups/cloud-shell-storage-westeurope/overview

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JSON View

^ Essentials

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Subscription ID 560f8f44-399e-4bd2-8e89-1e5e79289a69 No deployments
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Filter for any field... Type equals all X Location equals all X Add filter

Showing 1 to 1 of 1 records. Show hidden types ⓘ No grouping

List view

Name ↑	Type ↑	Location ↑
csb1003200054fa84cd	Storage account	West Europe

...

Q67: You need to manage Azure by using Azure Cloud Shell. Which Azure portal icon should you select? To answer, select the appropriate icon in the answer area.

The screenshot shows the Microsoft Azure portal interface. At the top, there is a blue header bar with the 'Microsoft Azure' logo, a search bar containing 'Search resources, services, and docs (G+)', and several icons for notifications, settings, help, and user profile. A yellow dashed box highlights the 'Create a resource' icon (a plus sign inside a square). A large yellow arrow points upwards from the 'Create a resource' icon towards the 'Resource groups' icon in the 'Azure services' section below. The 'Azure services' section contains seven items, each with an icon and a label: 'Create a resource' (plus sign), 'Resource groups' (two overlapping hexagons), 'All resources' (grid of squares), 'Virtual machines' (monitor with a gear), 'Storage accounts' (stacked bars), 'Help + support' (person icon), and 'Cost Management ...' (dollar sign inside a circle).

Icon	Name
+	Create a resource
[hexagons]	Resource groups
grid	All resources
monitor with gear	Virtual machines
stacked bars	Storage accounts
person	Help + support
dollar sign	Cost Management ...



Q68: You plan to extend your company network to Azure. The network contains a VPN appliance that uses an IP address of 131.107.200.1. You need to create an Azure resource that defines the VPN appliance in Azure. **Which Azure resource should you create?** To answer, select the appropriate resource in the answer area.

- a) Services
- b) NAT gateways
- c) Application gateways
- d) Local network gateways
- e) Virtual network gateways
- f) On-premises Data Gateways
- g) Azure Data Box Gateway
- h) Azure Stack Edge / Data Box Gateway
- i) Web Application Firewall policies



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Article • 12/21/2022 • 20 minutes to read • 2 contributors

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Prerequisites

- [Create a virtual network](#)
- [Create a VPN gateway](#)
- [Create a local network gateway](#)

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This tutorial shows you how to use the Azure portal to create a site-to-site VPN gateway connection between your on-premises network and a virtual network (VNet). You can also create this configuration using [Azure PowerShell](#) or [Azure CLI](#).

In this tutorial, you learn how to:

TRAINING

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Documentation

About Azure Point-to-Site VPN connections - Azure VPN Gateway

Learn about Point-to-Site VPN.

Tutorial – Create & manage a VPN gateway – Azure portal - Azure VPN Gateway

In this tutorial, learn how to create and manage an Azure VPN gateway using the Azure portal.

About VPN devices for connections - Azure VPN Gateway

Learn about VPN devices and IPsec parameters for Site-to-Site cross-premises connections. Links are provide...

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Create a local network gateway

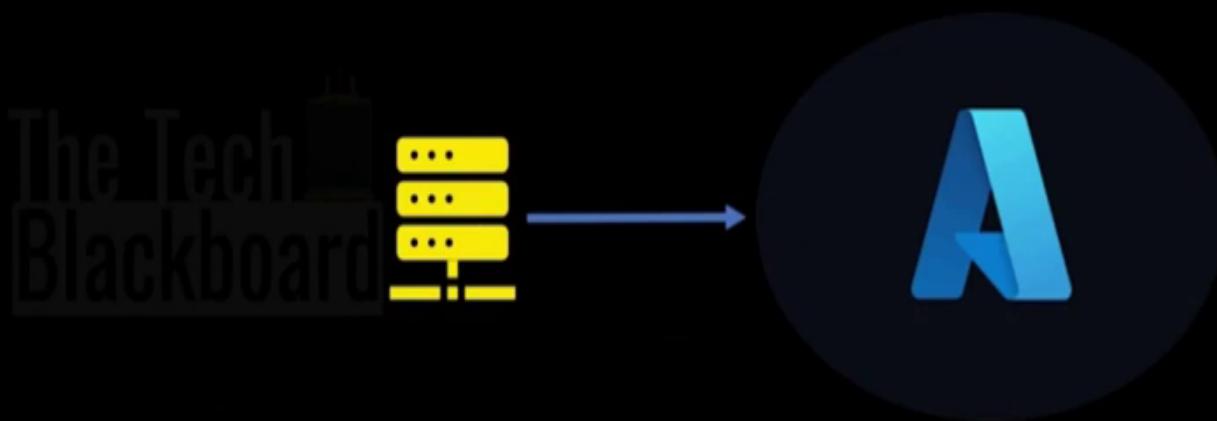
The local network gateway is a specific object that represents your on-premises location (the site) for routing purposes. You give the site a name by which Azure can refer to it, then specify the IP address of the on-premises VPN device to which you'll create a connection. You also specify the IP address prefixes that will be routed through the VPN gateway to the VPN device. The address prefixes you specify are the prefixes located on your on-premises network. If your on-premises network changes or you need to change the public IP address for the VPN device, you can easily update the values later.

Create a local network gateway using the following values:

- Name: Site1
 - Resource Group: TestRG1
 - Location: East US
1. From the [Azure portal](#), in [Search resources, services, and docs \(G+\)](#) type **local network gateway**. Locate **local network gateway** under **Marketplace** in the search results and select it. This opens the **Create local network gateway** page.
 2. On the **Create local network gateway** page, on the **Basics** tab, specify the values for your local network gateway.

Q68: You plan to extend your company network to Azure. The network contains a VPN appliance that uses an IP address of 131.107.200.1. You need to create an Azure resource that defines the VPN appliance in Azure. **Which Azure resource should you create?** To answer, select the appropriate resource in the answer area.

- a) Services
- b) NAT gateways
- c) Application gateways
- d) Local network gateways**
- e) Virtual network gateways
- f) On-premises Data Gateways
- g) Azure Data Box Gateway
- h) Azure Stack Edge / Data Box Gateway
- i) Web Application Firewall policies



Q69: Your Azure environment contains multiple Azure virtual machines. You need to ensure that a virtual machine named VM1 is accessible from the Internet over HTTP. **What are two possible solutions?** Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- a) Modify an Azure Traffic Manager profile
- b) Modify a network security group (NSG)
- c) Modify a DDoS protection plan
- d) Modify an Azure firewall

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Network security groups

Article • 12/07/2022 • 9 minutes to read • 11 contributors

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You can use an Azure network security group to filter network traffic between Azure resources in an Azure virtual network. A network security group contains [security rules](#) that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources. For each rule, you can specify source and destination, port, and protocol.

This article describes the properties of a network security group rule, the

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[Configure network security groups - Training](#)

Learn how to implement network security groups, and ensure network security group rules are correctly applied.

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What is Azure Firewall?

Article • 11/07/2022 • 14 minutes to read • 24 contributors

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In this article

[Azure Firewall Standard](#)[Azure Firewall Premium](#)[Azure Firewall Basic \(preview\)](#)[Azure Firewall Manager](#)[Show 5 more](#)

Azure Firewall is a cloud-native and intelligent network firewall security service that provides the best of breed threat protection for your cloud workloads running in Azure. It's a fully stateful, firewall as a service with built-in high availability and unrestricted cloud scalability. It provides both east-west and north-south traffic inspection.

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Learning paths and modules

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Learn how to configure Azure Firewall including firewall rules.

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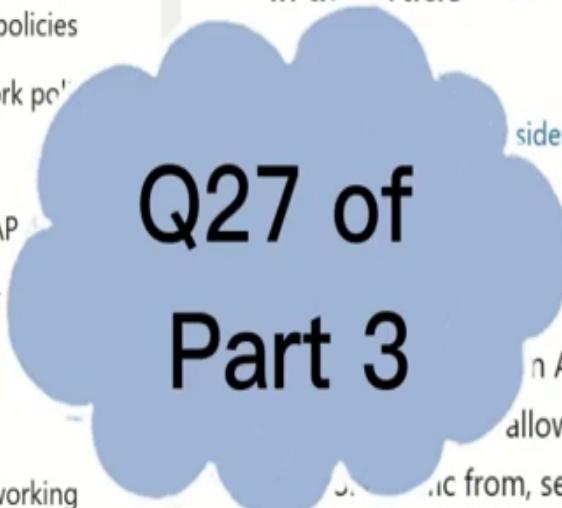
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Q27 of Part 3

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This article describes the properties of a network security group rule, the



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Q70: You can improve composite SLA by adding redundant service to your application.

Yes

No

Q70: You can improve composite SLA by adding redundant service to your application.

Yes

No

Q71: You can improve composite SLA by adding more dependent service to your application.

Yes

No

Q72: SLA in Azure is a formal agreement between Microsoft and customer. Which factor is covered in SLA?

- a) Durability
- b) Scalability
- c) Elasticity
- d) Availability

Q73: During which phase Azure services are subject to a Service Level Agreement (SLA).

- a) Private preview
- b) Public preview
- c) Generally available (GA)

Q72: SLA in Azure is a formal agreement between Microsoft and customer. Which factor is covered in SLA?

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- c) Generally available (GA)

terms, which supplement your agreement governing use of Azure. Capitalized terms not defined herein shall have the meaning set forth in [your agreement](#). If you do not agree to these terms, do not use the Preview(s).

Azure Active Directory preview programs

Azure Active Directory provides updates and new features in the form of preview programs. Microsoft rolls out previews in phases to give Microsoft and customers the opportunity to evaluate and understand the new feature before it becomes part of the standard service of Azure AD. The phases are as follows:

1. **Private preview** – During this phase we invite a few customers to take part in early access to new concepts and features. This phase does not include formal support.
2. **Public preview** – During this phase we allow any customer with the proper Azure AD license to evaluate the new feature. Microsoft Customer Support Services will supply support services during this phase, but normal service level agreements do not apply. For new features exposed in the Azure AD Portal, customer can expect to see information banners in the user interface that draw attention to the new experience available during the preview. By clicking on the information banner customers then opt-in to the preview experience.
3. **Generally available (GA)** – After the public preview is completed, the feature is open for any licensed customer to use and is supported via all Microsoft support channels. Be aware when a new feature impacts existing functionality, it might change the way you or your users use the functionality.

Every Azure Active Directory preview program has different opt-in requirements and dependencies.

Azure Maps (Preview)

Q74: During Public Preview phase only those with special invite can access the service.

True

False

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Azure Maps (Preview)

Q74: During Public Preview phase only those with special invite can access the service.

True

False

Q75: Azure services in public preview are subject to a Service Level Agreement (SLA).

True

False

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Every Azure Active Directory preview program has different opt-in requirements and dependencies.

Azure Maps (Preview)

Q74: During Public Preview phase only those with special invite can access the service.

True

False

Q75: Azure services in public preview are subject to a Service Level Agreement (SLA).

True

False

Q76: Microsoft Customer Support Services will supply support services during public preview.

True

False

Q74: During Public Preview phase only those with special invite can access the service.

True

False

Q75: Azure services in public preview are subject to a Service Level Agreement (SLA).

True

False

Q76: Microsoft Customer Support Services will supply support services during public preview.

True •

False

Q77: All Azure services in private preview must be accessed by using a separate Azure portal.

True

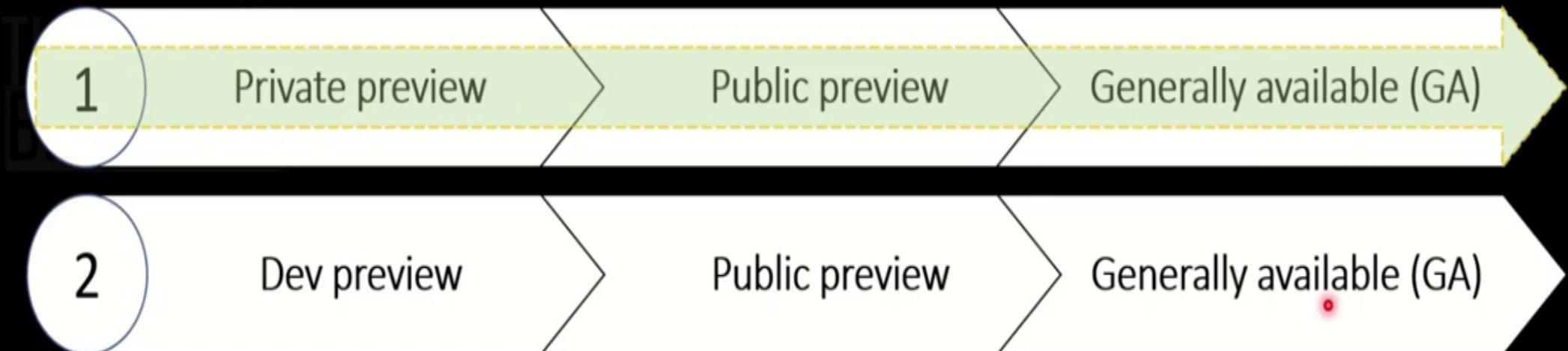
False

Q78: Azure services in public preview can be used in production environments.

True

False

Q79: Which of the following is correct Lifecycle of Azure Services:



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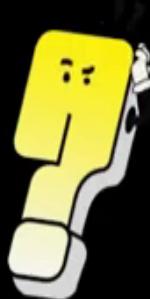
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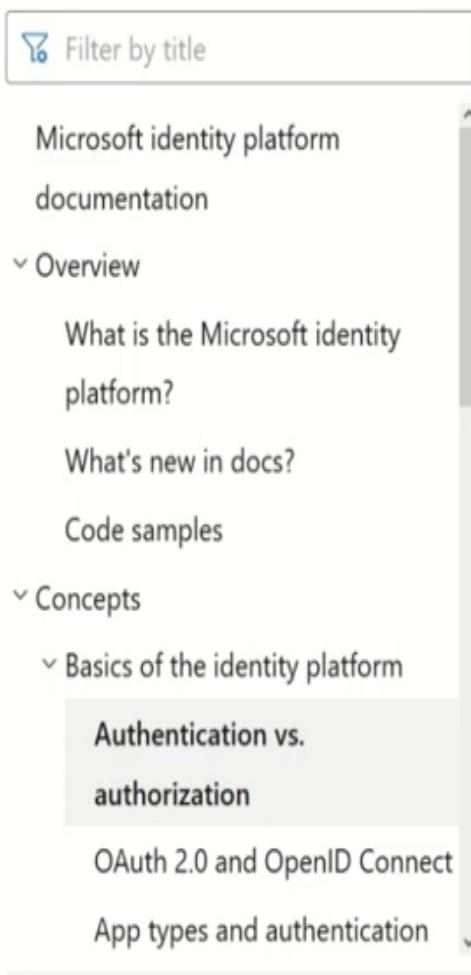


Q80: Single sign-on (SSO) is _____ method that enables users to sign in the first time and access various applications and resource by using same password.

- a) a validation
- b) an authentication**
- c) a configuration
- d) an authorization

Authentication vs Authorization





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Authentication vs. authorization

Article • 01/06/2023 • 3 minutes to read • 7 contributors

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Authentication

Authentication is the process of proving that you are who you say you are. This is achieved by [verification of the identity of a person or device](#). It's sometimes shortened to *AuthN*. The Microsoft identity platform uses the [OpenID Connect](#) protocol for handling authentication.

Authorization

Authorization is the act of granting an authenticated party permission to do something. It specifies what data you're allowed to access and what you can do with that data. Authorization is sometimes shortened to *AuthZ*. The Microsoft

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Multifactor authentication

Multifactor authentication is the act of providing an additional factor of authentication to an account. This is often used to protect against brute force attacks. It is sometimes shortened to *MFA* or *2FA*. The [Microsoft Authenticator](#) can be used as an app for handling two-factor authentication. For more information, see [multifactor authentication](#).

Authentication and authorization

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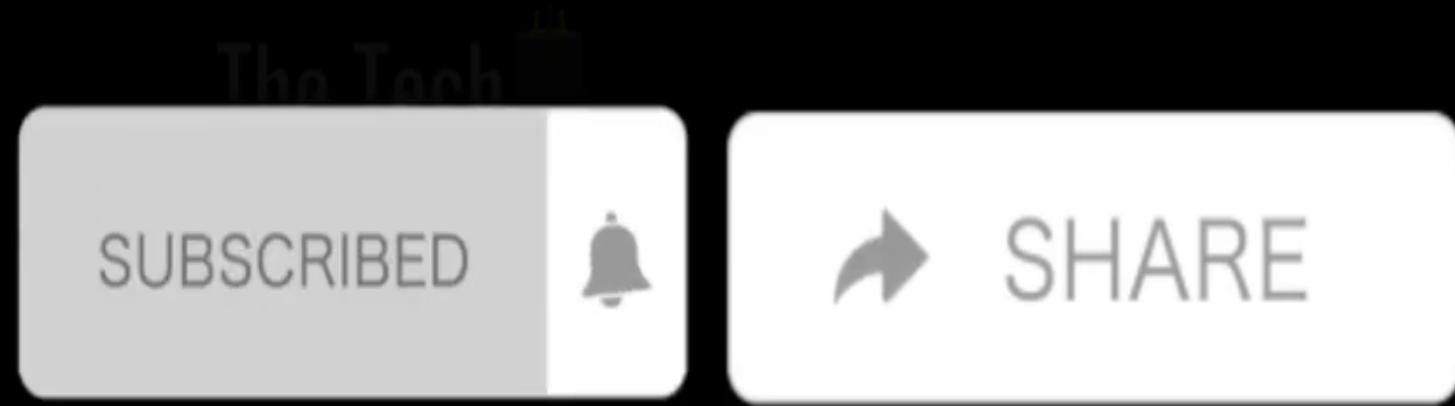
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- b) an authentication**
- c) a configuration
- d) an authorization



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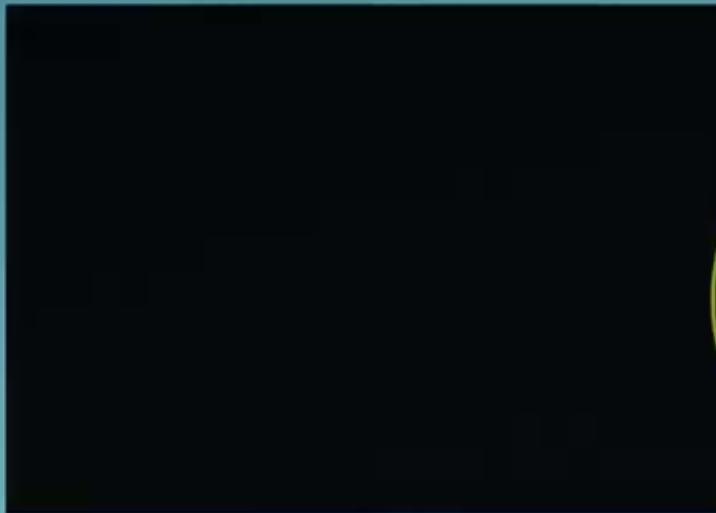
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