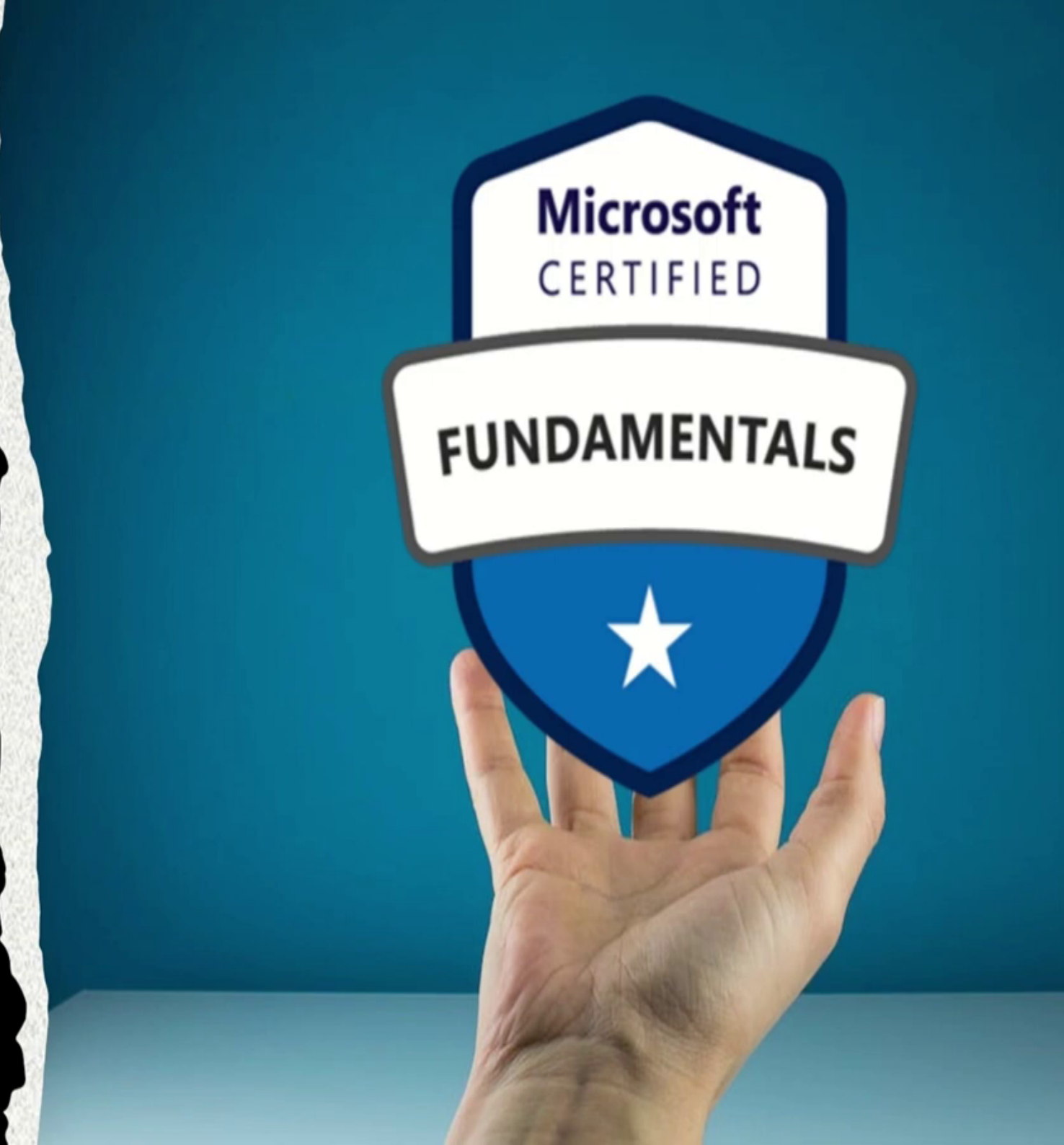
00:00:00

Azure



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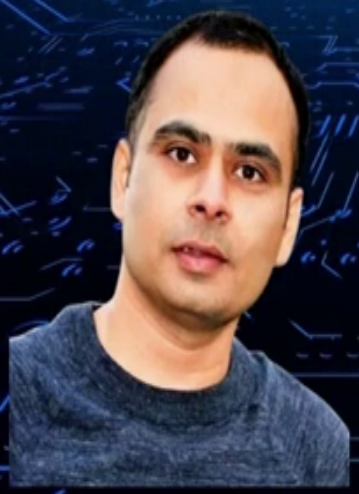

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AZ 900: Questions and Answers – Part 8

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Q126:	Statement	Yes	No
	a) Availability zones can be implemented in all Azure regions.	☐	☑
	b) Only virtual machines that run Windows Server can be created in availability zones.	☐	☐
	c) Availability zones are used to replicate data and applications to multiple regions.	☐	☐

Check Microsoft Documentation

Do watch previous parts for similar questions.

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Q126:	Statement	Yes	No
a)	Availability zones can be implemented in all Azure regions.	☐	☑
b)	Only virtual machines that run Windows Server can be created in availability zones.	☐	☑
c)	Availability zones are used to replicate data and applications to multiple regions.	☐	☐

Blackboard

You can run both Window & Linux based Virtual machines in AZ

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Q126:	Statement	Yes	No
a)	Availability zones can be implemented in all Azure regions.	☐	☑
b)	Only virtual machines that run Windows Server can be created in availability zones.	☐	☑
c)	Availability zones are used to replicate data and applications to multiple regions.	☐	☑

with their own independent power source, network, and cooling.
Connected with an extremely low-latency network,
they become a building block to delivering high availability applications.

Q126:	Statement	Yes	No
a)	Availability zones can be implemented in all Azure regions.	☐	☑
b)	Only virtual machines that run Windows Server can be created in availability zones.	☐	☑
c)	Availability zones are used to replicate data and applications to multiple regions.	☐	☑

Azure availability zones are physically and logically separated datacenters with their own independent power source, network, and cooling.
Connected with an extremely low-latency network,
they become a building block to delivering high availability applications.

Q127: Which performance option should you choose for low latency scenarios while creating Azure Storage account?

a) Standard

b) Premium

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00:02:51

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Create a storage account to store up to 500TB of data in the cloud. Use a general-purpose storage account to store object data, use a NoSQL data store, define and use queues for message processing, and set up file shares in the cloud. Use the Blob storage account and the hot or cool access tiers to optimize your costs based on how frequently your object data is accessed.

Create storage account

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Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. Learn more about Azure storage accounts

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription * VijPayAsyouGO

Resource group * Select existing item...

Create new

Instance details

If you need to create a legacy storage account type, please click here.

Storage account name *

Region * (US) East US

Deploy to an edge zone

Performance * Standard: Recommended for most scenarios (general-purpose v2 account)

Review | < Previous | Next : Advanced > | Give feedback

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Project details

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Subscription * VijPayAsyouGO

Resource group * Select existing item...

Create new

Instance details

If you need to create a legacy storage account type, please click here.

Storage account name *

Region * (US)

Deploy ge zone

Performance * Recommended for most scenarios (general-purpose v2 account)

Premium: Recommended for scenarios that require low latency.

Redundancy * Geo-redundant storage (GRS)

Make read access to data available in the event of regional unavailability.

Review | < Previous | Next : Advanced > | Give feedback

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Q127: Which performance option should you choose for low latency scenarios while creating Azure Storage account?

a) Standard
b) Premium

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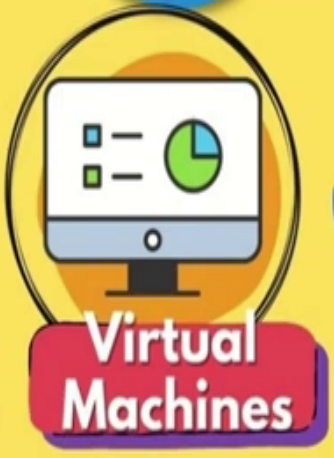

VS

17

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Cloud Computing Models

Cloud Deployment Models

Part 3

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Part 1

Q128: You have an on-premises network that contains several servers. You plan to migrate all the servers to Azure. You need to recommend a solution to ensure that some of the servers are available if a single Azure data center goes offline for an extended period. What should you include in the recommendation?

a) fault tolerance
b) elasticity
c) scalability
d) low latency

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Q128: You have an on-premises network that contains several servers. You plan to migrate all the servers to Azure. You need to recommend a solution to ensure that some of the servers are available if a single Azure data center goes offline for an extended period. What should you include in the recommendation?

a) fault tolerance
b) elasticity
c) scalability
d) low latency

Fault tolerance refers to the ability of a system such as computer, network, cloud cluster, etc. to continue operating without interruption when one or more of its components fail.

Q129: When planning to migrate a public website to Azure, you must plan to pay monthly usage costs.

Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

a) No change is needed
b) deploy a VPN
c) pay to transfer all the website data to Azure
d) reduce the number of connections to the website

The Tech Blackboard

Q130: Your company's developers intend to deploy a large number of custom virtual machines on a weekly basis. They will also be removing these virtual machines during the same week it was deployed. Sixty percent of the virtual machines have Windows Server 2016 installed, while the other forty percent has Ubuntu Linux installed.

You are required to make sure that the administrative effort, needed for this process, is reduced by employing a suitable Azure service.

Solution: You recommend the use of Microsoft Managed Desktop.

Does the solution meet the goal?

Yes | No

The Tech Blackboard

Q131: Your company's developers intend to deploy a large number of custom virtual machines on a weekly basis. They will also be removing these virtual machines during the same week it was deployed. Sixty percent of the virtual machines have Windows Server 2016 installed, while the other forty percent has Ubuntu Linux installed.
You are required to make sure that the administrative effort, needed for this process, is reduced by employing a suitable Azure service.

Solution: You recommend the use of Azure Reserved Virtual Machines (VM) Instances.
Does the solution meet the goal?

Yes | No

The Tech Blackboard

Q132: Your company's developers intend to deploy a large number of custom virtual machines on a weekly basis. They will also be removing these virtual machines during the same week it was deployed. Sixty percent of the virtual machines have Windows Server 2016 installed, while the other forty percent has Ubuntu Linux installed.
You are required to make sure that the administrative effort, needed for this process, is reduced by employing a suitable Azure service.

Solution: You recommend the use of Azure DevTest Labs.
Does the solution meet the goal?

Yes | No

The Tech Blackboard

Q132: Your company's developers intend to deploy a large number of custom virtual machines on a weekly basis. They will also be removing these virtual machines during the same week it was deployed. Sixty percent of the virtual machines have Windows Server 2016 installed, while the other forty percent has Ubuntu Linux installed.
You are required to make sure that the administrative effort, needed for this process, is reduced by employing a suitable Azure service.

Solution: You recommend the use of Azure DevTest Labs.
Does the solution meet the goal?

Azure DevTest Labs is a service for easily creating, using, and managing infrastructure-as-a-service (IaaS) virtual machines (VMs) and platform-as-a-service (PaaS) environments in labs.

00:08:07

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Chat with the sales department

Q132: Your company's developers intend to deploy a large number of custom virtual machines on a weekly basis. They will also be removing these virtual machines during the same week it was deployed. Sixty percent of the virtual machines have Windows Server 2016 installed, while the other forty percent has Ubuntu Linux installed.

You are required to make sure that the administrative effort, needed for this process, is reduced by employing a suitable Azure service.

Solution: You recommend the use of Azure DevTest Labs.

Does the solution meet the goal?

Yes

No

The Tech Blackboard

Q133: You have an on-premises network that contains 100 servers. You need to recommend a solution that provides additional resources to your users. The solution must minimize capital and operational expenditure costs.

What should you include in the recommendation?

a) a complete migration to the public cloud
b) an additional data center
c) a private cloud
d) a hybrid cloud

The Tech BlackBoard

Q134: You are tasked with deploying Azure virtual machines for your company. You need to make use of the appropriate cloud deployment solution.

Solution: You should make use of Software as a Service (SaaS).

Does the solution meet the goal?

Yes

No

The Tech Blackboard

Q135: You are tasked with deploying Azure virtual machines for your company. You need to make use of the appropriate cloud deployment solution.

Solution: You should make use of Platform as a Service (PaaS).

Does the solution meet the goal?

Yes | No

The Tech Blackboard

Q136: You are tasked with deploying Azure virtual machines for your company. You need to make use of the appropriate cloud deployment solution.

Solution: You should make use of Infrastructure as a Service (IaaS).

Does the solution meet the goal?

Yes | No

The Tech Blackboard

Q137: Azure Site Recovery provides fault tolerance for virtual machines.

Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

a) No change is needed.
b) disaster recovery
c) elasticity
d) high availability

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00:12:16

https://azure.microsoft.com/en-in/products/site-recovery/#overview

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Help your business to keep doing business—even during major IT outages. Azure Site Recovery offers ease of deployment, cost effectiveness and dependability. Deploy replication, failover and recovery processes through Site Recovery to help keep your applications running during planned and unplanned outages.

Site Recovery is a native disaster recovery as a service (DRaaS) and Microsoft has been recognised as a leader in DRaaS based on completeness of vision and ability to execute by Gartner in the 2019 Magic Quadrant for Disaster Recovery as a Service.

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Q137: Azure Site Recovery provides fault tolerance for virtual machines.

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a) No change is needed.
b) disaster recovery
c) elasticity
d) high availability

The Tech Blackboard

Q138: An Availability Zone in Azure has physically separate locations across two continents.
Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

a) No change is needed.
b) within a single Azure region
c) within multiple Azure regions
d) within a single Azure datacenter

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Q139: Azure Monitor can monitor the performance of on-premises computers.

True

False

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Q140: Azure Monitor can send alerts to Azure Active Directory security groups.

True

False

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Q141: Azure Monitor can trigger alerts based on data in an Azure Log Analytics workspace.

True

False

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00:15:17

https://learn.microsoft.com/en-us/azure/azure-monitor/overview

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Azure Monitor overview

Article • 11/01/2022 • 12 minutes to read • 27 contributors

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In this article

Azure Monitor helps you maximize the availability and performance of your applications and services. It delivers a comprehensive solution for collecting, analyzing, and acting on telemetry from your cloud and on-premises environments. This information helps you understand how your applications are performing and proactively identify issues that affect them and the resources they depend on.

A few examples of what you can do with Azure Monitor include:

- Detect and diagnose issues across applications and dependencies with Application Insights.
- Correlate infrastructure issues with VM insights and Container insights.
- Drill into your monitoring data with Log Analytics for troubleshooting and deep diagnostics.

Additional resources

Training

Learning paths and modules

Monitor the usage, performance, and availability of resources with Azure Monitor - Training

Learn how to monitor the usage, performance, and availability of resources using Azure Monitor.

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Microsoft Certified: Azure Data Fundamentals - Certifications

Azure Data Fundamentals validates foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services.

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What is monitored by Azure Monitor - Azure Monitor

Reference of all services and other resources monitored by Azure Monitor.

Use Change Analysis in Azure Monitor to find

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In this article

Azure Monitor helps you maximize the availability and performance of your applications and services. It delivers a comprehensive solution for collecting, analyzing, and acting on telemetry from your cloud and on-premises environments. This information helps you understand how your applications are performing and proactively identify issues that affect them and the resources they depend on.

A few examples of what you can do with Azure Monitor include:

- Detect and diagnose issues across applications and dependencies with Application Insights.
- Correlate infrastructure issues with VM insights and Container insights.
- Drill into your monitoring data with Log Analytics for troubleshooting and deep diagnostics.
- Support operations at scale with automated actions.
- Create visualizations with Azure dashboards and workbooks.
- Collect data from monitored resources by using Azure Monitor Metrics.
- Investigate change data for routine monitoring or for triaging incidents by using Change Analysis.

> ⓘ Note
>
> This service supports **Azure Lighthouse**, which lets service providers sign in to their own tenant to manage subscriptions and resource groups that customers have delegated.

Overview

Monitor the usage, performance, and availability of resources with Azure Monitor - Training

Learn how to monitor the usage, performance, and availability of resources using Azure Monitor.

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Use Change Analysis in Azure Monitor to find web-app issues - Azure Monitor

Use Change Analysis in Azure Monitor to troubleshoot issues on live sites.

Observability data in Azure Monitor - Azure Monitor

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What are Azure Monitor Alerts?

Article • 01/15/2023 • 5 minutes to read • 8 contributors

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In this article

Alerts help you detect and address issues before users notice them by proactively notifying you when Azure Monitor data indicates that there may be a problem with your infrastructure or application.

You can alert on any metric or log data source in the Azure Monitor data platform.

This diagram shows you how alerts work:

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Improve incident response with alerting on Azure - Training

Respond to incidents and activities in your infrastructure through alerting capabilities in Azure Monitor.

Documentation

Types of Azure Monitor alerts - Azure Monitor

This article explains the different types of Azure Monitor alerts and when to use each type.

Alert processing rules for Azure Monitor alerts - Azure Monitor

Understand Azure Monitor alert processing rules and how to configure and manage them.

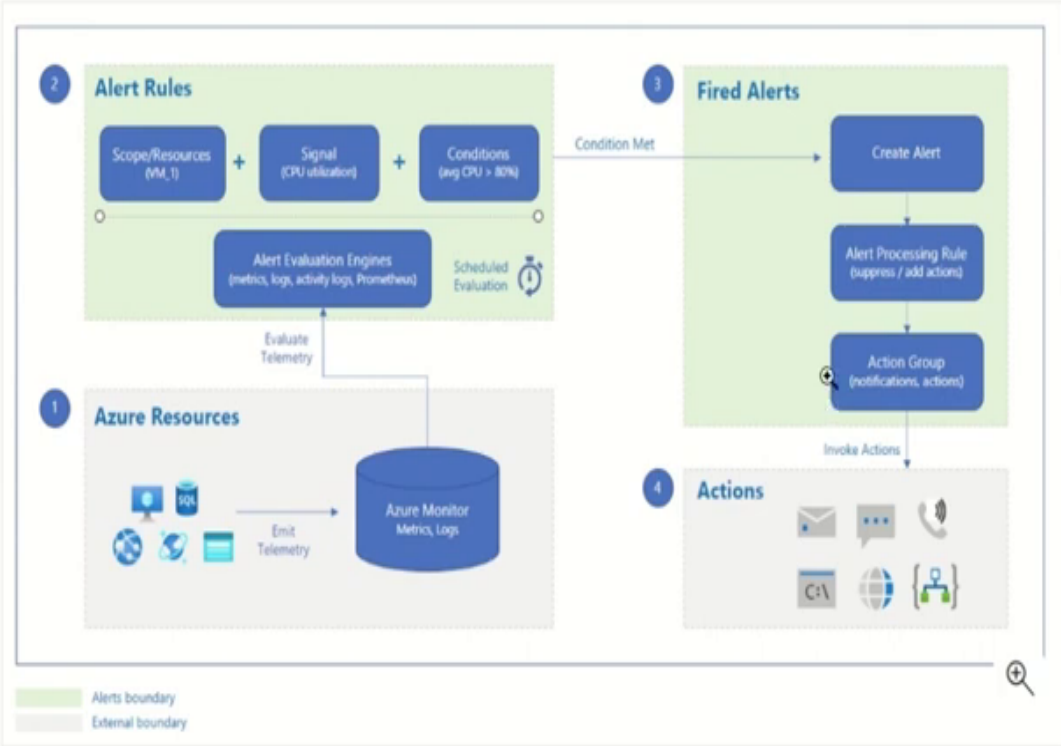
Create Azure Monitor alert rules - Azure Monitor

This article shows you how to create a new alert rule.

Azure Monitor data indicates that there may be a problem with your infrastructure or application.

You can alert on any metric or log data source in the Azure Monitor data platform.

This diagram shows you how alerts work:



An **alert rule** monitors your telemetry and captures a signal that indicates that something is happening on the specified resource. The alert rule captures the signal and checks to see if the signal meets the criteria of the condition. If the conditions are met, an alert is triggered, which initiates the associated action group and updates the state of the alert.

An alert rule combines:

- The resource(s) to be monitored
- The signal or telemetry from the resource
- Conditions

Monitor alerts and when to use each type.

Alert processing rules for Azure Monitor alerts - Azure Monitor

Understand Azure Monitor alert processing rules and how to configure and manage them.

Create Azure Monitor alert rules - Azure Monitor

This article shows you how to create a new alert rule.

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This article shows you how to create a new alert rule.

Q142: Your company plans to migrate all on-premises data to Azure. You need to identify whether Azure complies with the company's regional requirements. What should you use?

a) the Knowledge Center
b) Azure Marketplace
c) the MyApps portal
d) the Trust Center

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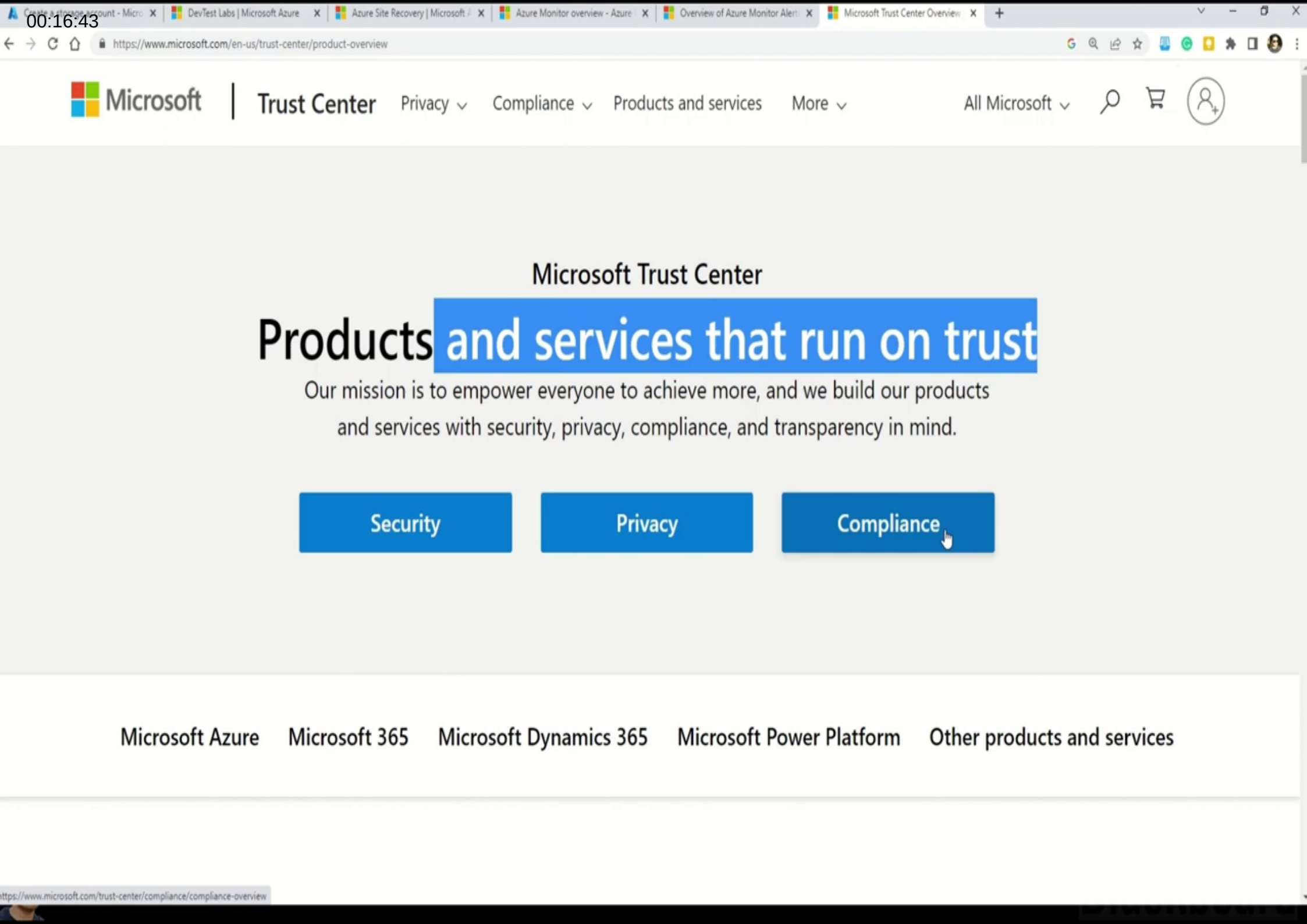
00:16:43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Q142: Your company plans to migrate all on-premises data to Azure. You need to identify whether Azure complies with the company's regional requirements. What should you use?

a) the Knowledge Center
b) Azure Marketplace
c) the MyApps portal
d) the Trust Center

The Tech Blackboard

Q143: Azure Policy helps organization to:

a) create security policy
b) enforce organizational standards & to assess compliance at-scale
c) Create firewall rules

The Tech Blackboard

00:17:37

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What is Azure Policy?

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In this article

Azure Policy helps to enforce organizational standards and to assess compliance at-scale. Through its compliance dashboard, it provides an aggregated view to evaluate the overall state of the environment, with the ability to drill down to the per-resource, per-policy granularity. It also helps to bring your resources to compliance through bulk remediation for existing resources and automatic remediation for new resources.

> ⓘ Note
>
> For more information on remediation, see Remediate non-compliant resources with Azure Policy.

Additional resources

Training

Learning paths and modules

Configure Azure Policy - Training

Learn how to configure Azure Policy to implement compliance requirements.

Learning certificate

Microsoft Certified: Azure Administrator Associate - Certifications

Azure administrators implement, manage, and monitor an organization's Microsoft Azure environment, including virtual networks, storage,...

Documentation

Tutorial: Build policies to enforce compliance - Azure Policy

In this tutorial, you use policies to enforce standards, control costs, maintain security, and impose enterprise-wide design principles.

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A glossary defining the terminology used throughout

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Specifically, some useful governance actions you can enforce with Azure Policy include:

- Ensuring your team deploys Azure resources only to allowed regions
- Enforcing the consistent application of taxonomic tags
- Requiring resources to send diagnostic logs to a Log Analytics workspace

It's important to recognize that with the introduction of Azure Arc, you can extend your policy-based

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b) private
c) public

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b) an Azure virtual machine
c) an Azure logic app
d) an Azure SQL database

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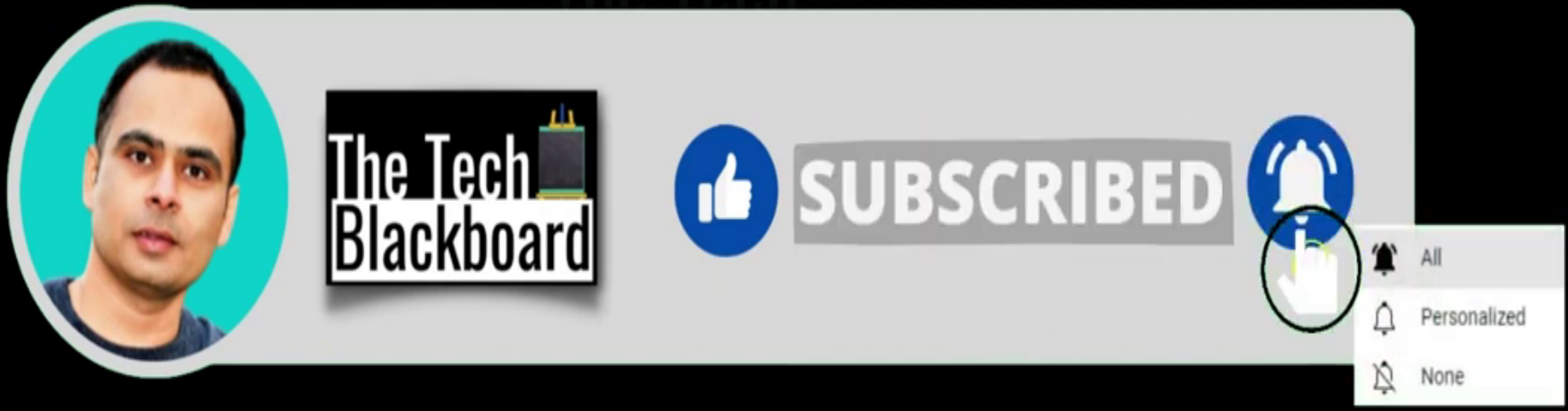

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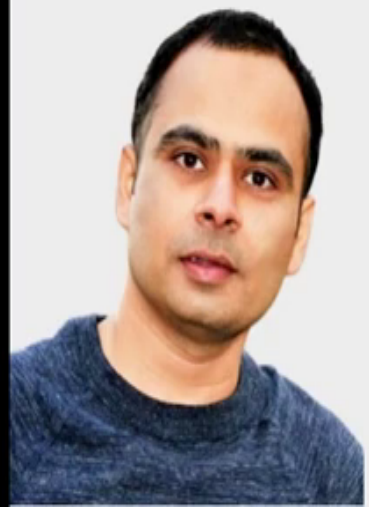

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