

Security, Responsibility, and Trust in Azure

Check your knowledge

1. How many resource groups can a resource be in at the same time? *

☒ One

✓ A resource can only be in one group at a time.

☐ Two

☐ Three

2. What happens to the resources within a resource group when an action or setting at the Resource Group level is applied? *

☐ Current resources inherit the setting, but future resources don't.

☐ Future resources inherit the setting, but current ones don't.

☒ The setting is applied to current and future resources.

✓ Resources inherit permissions from their resource group.

3. What Azure feature replicates resources across regions that are at least 300 miles away from each other? *

☒ Region pairs

✓ Most Azure regions are paired with another region within the same geography (such as US, Europe, or Asia) at least 300 miles away.

☐ Availability Zones

☐ Sovereign regions

Next unit: Summary

Summary

2 minutes

100 XP


In this module, you learned about the physical and management structure of Microsoft Azure. You were introduced to the relationship between datacenters, availability zones, and regions. You explored how the infrastructure supports the benefits of the cloud, such as high availability and reliability. You also learned about the management infrastructure of Azure. You explored how resources and resource groups are related, and how subscriptions and management groups can help manage resources.

Learning objectives

You should now be able to:

- Describe Azure regions, region pairs, and sovereign regions.
- Describe Availability Zones.
- Describe Azure datacenters.
- Describe Azure resources and Resource Groups.
- Describe subscriptions.
- Describe management groups.
- Describe the hierarchy of resource groups, subscriptions, and management groups.

Keep up the great work!



Describe the core architectural components of Azure

You have earned an achievement!

Congratulations, but what should you do next?

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Below you will find recommended content to help you along your path!

Next module in this learning path

Manage users and groups in Azure Active Directory

Check your knowledge

1. An Azure subscription is a _____.

☒ billing entity and security boundary

✓ Correct. Azure subscriptions manage resources, limits, and provide the charges billed to the account owner.

☐ container that holds users

☐ monthly charge for Azure services

2. Which of the following best describes the relationship between a subscription and a Microsoft Entra directory?

☐ A Microsoft Entra directory has a 1:1 relationship with a subscription.

☒ A Microsoft Entra directory can be associated with multiple subscriptions, but a subscription is always tied to a single directory.

✓ Correct. Azure subscriptions can only trust a single directory, but multiple subscriptions can be associated to a single Microsoft Entra instance.

☐ A Microsoft Entra directory is associated with a single subscription, but a subscription can trust multiple directories.

3. True or False, an organization can have more than one Microsoft Entra directory.

☒ True

✓ Correct. While a single directory is created for the organization initially, more can be created to divide the security across boundaries.

☐ False

Check your knowledge

1. What information does an `Action` provide in a role definition?

☒ An `Action` provides the allowed management capabilities for the role.

✓ Correct. An `Action` defines what the role can do.

☐ An `Action` determines what data the role can manipulate.

☐ An `Action` decides what resource the role is applied to.

2. Which of the following sets the scope of a role to be the resource group `myResourceGroup`?

☐ `/subscriptions/0a324015-0204-4502-909c-611e52a0e471`

☐ `/subscriptions/e167bd4f-d0f2-4b45-b6dd-6c0a225b4f18/resourceGroups/myResourceGroup/backups01`

☒ `/subscriptions/e167bd4f-d0f2-4b45-b6dd-6c0a225b4f18/resourceGroups/myResourceGroup`

✓ Correct.

3. How are `NotActions` used in a role definition?

☒ `NotActions` are subtracted from `Actions` to define a list of permissible operations.

✓ Correct!


☐ `NotActions` are consulted after `Actions` to deny access to a specific operation.

☐ `NotActions` allow you to specify a single operation that is not allowed.

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Manage users and groups in
Microsoft Entra ID

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Create Azure users and groups in Azure Active Directory

Check your knowledge

1. If you delete a user account by mistake, can it be restored? *

- ☐ When a user account is deleted, it's gone forever and can't be restored.
- ☐ The user account can be restored, but only if it was created within the last 30 days.
- ☒ The user account can be restored, but only if it was deleted within the last 30 days.

✓ A user account can be restored as long as it's been deleted within the last 30 days. Go to the deleted user list to see the list of all of the deleted users.

2. What kind of account would you create to allow an external organization easy access? *

- ☒ A guest user account for each member of the external team.


✓ A guest user account restricts users to just the access they need.

- ☐ An external account for each member of the external team.
- ☐ An administrator account for each member of the external team.

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Achievements

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Secure Microsoft Entra users with multifactor authentication

Check your knowledge

1. Which of the following authentication methods is *not* available for MFA? *

- ☐ Text message
- ☐ Microsoft Authenticator app

☒ Security questions

✓ Correct. Security questions can only be used with Self-Service Password Reset.

2. Which of the following authentication methods *cannot* be disabled? *

☐ Text message

☒ Password

✓ Correct. Passwords are always usable as an authentication method and cannot be disabled.

☐ Microsoft Authenticator app

3. True or False. You must activate multi-factor authentication for all users in the directory you enable it in. *

☐ True

☒ False

✓ Correct. MFA can be enabled for a subset of your users; this is actually a recommendation - start small to ensure you don't lock someone out of your systems.

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Keep up the great work!



Secure Microsoft Entra users
with multifactor authentication

You have earned an achievement!

Congratulations, but what should you do next?

Manage device identity with Microsoft Entra join and Enterprise State Roaming

1. What operating systems do Microsoft Entra registered devices support? *

☒ Windows 10, Windows 11, iOS, Android, and macOS

✓ The option of Microsoft Entra registered supports devices that run Windows 10, iOS, iPadOS, Android, and macOS.

☐ Windows 7, Windows 8.1, and Windows 10 only

☐ Windows 10 and macOS

2. What device security sign-in options does Microsoft Entra join support? *

☐ A Microsoft Entra ID work account with password, PIN, pattern, or Windows Hello

☒ A Microsoft Entra work account with password or Windows Hello, and multifactor authentication

✓ Microsoft Entra join supports Windows 10 or Windows Server 2019 devices where users sign in by using their work account with a password or Windows Hello. Microsoft Entra multifactor authentication is also supported.

☐ A Microsoft account with password, Windows Hello, and multifactor authentication

3. When is Conditional Access applied? *

☐ Before first-factor authentication

☐ As part of first-factor authentication

☒ After first-factor authentication

✓ A Conditional Access policy is applied after first-factor authentication has taken place.

1. What provisioning options are available through Microsoft Entra join? *

☒ Self-service by using the Windows out-of-box experience (OOBE), Windows Autopilot, or bulk enrollment

✓ All three options allow devices to be joined to Microsoft Entra ID.

☐ Self-service by using MDM, Windows Autopilot, or bulk enrollment

☐ Windows Autopilot or bulk enrollment

2. What happens when a device isn't in the MDM scope? *

☐ The user is asked to add the device to MDM before the device can join Microsoft Entra ID.

☐ The device can't join Microsoft Entra ID until the device has been registered with MDM.

☒ The Microsoft Entra join finishes without the enrollment to MDM.

✓ The device is joined, but the MDM system doesn't manage it.

1. What is classified as stale data? *

☐ Any data that hasn't been accessed for more than 90 days

☐ Any data that hasn't been accessed for more than 180 days

☒ Any data that hasn't been accessed for one year or more

✓ Any data that hasn't been accessed for one year or more is considered stale and is automatically deleted.

2. Can you name one of the benefits of using Enterprise State Roaming? *

☒ Enhanced security

✓ All applicable device data is encrypted through Azure Rights Management before synchronizing with the cloud. All stored data remains encrypted.


☐ Separation of cloud and device data

☐ Improved consumer data management

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Achievements

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Manage device identity with Microsoft Entra join and Enterprise State Roaming

You have earned an achievement!

Congratulations, but what should you do next?

Allow users to reset their password with Microsoft Entra self-service password reset

1. When is a user considered registered for SSPR? *

- ☐ When they've registered at least one of the permitted authentication methods
- ☒ When they've registered at least the number of methods that you've required to reset a password

✓ A user is considered registered for SSPR when they've registered at least the number of methods that you've required to reset a password. You can set this number in the Azure portal.

- ☐ When they've set up the minimum number of security questions

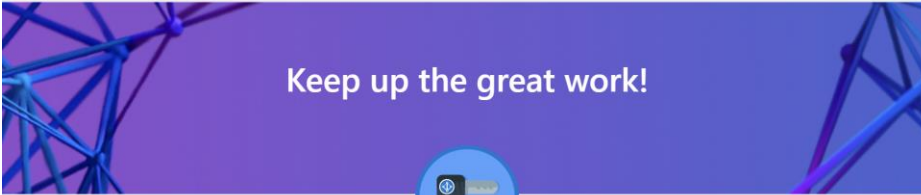
2. When you enable SSPR for your Microsoft Entra organization... *


- ☐ Users can only change their password when they're signed in
- ☐ Admins can reset their password by using one authentication method
- ☒ Users can reset their passwords when they can't sign in

✓ If the user passes the authentication tests, then they can reset their password.

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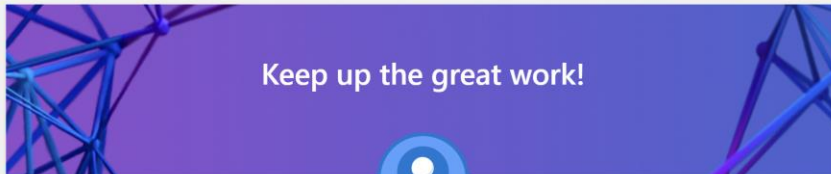
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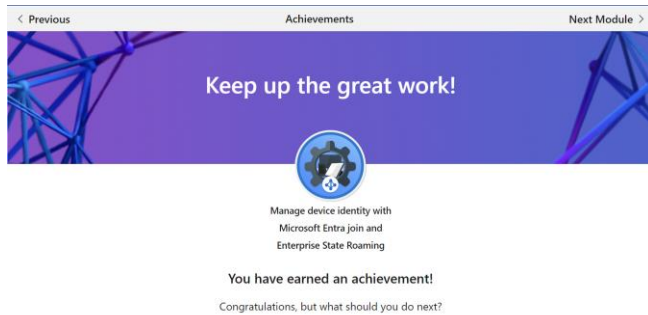
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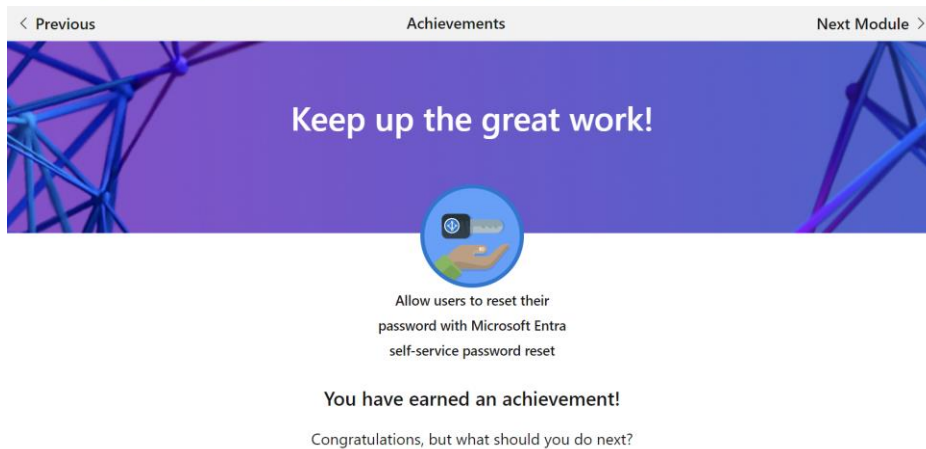
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Microsoft Azure Well-Architected Framework

The screenshot shows a web browser window with the URL `learn.microsoft.com/en-us/training/modules/azure-well-architected-introduction/4-operational-excellence`. The page title is "Operational excellence - Training". The main content area is titled "Check your knowledge" and contains two multiple-choice questions. The first question asks for a good example of using testing in your environment, with the correct answer being "Performing regular security tests of your application code in development and production environments." The second question asks for an example of using automation to improve operational excellence, with the correct answer being "Using a configuration template to deploy infrastructure in each environment." Below the questions, the next unit is "Performance efficiency" and a "Continue >" button is visible.

Lab 8 - Cloud Asset Management | Microsoft Word - NES-Lab8 | Operational excellence - Training

learn.microsoft.com/en-us/training/modules/azure-well-architected-introduction/4-operational-excellence

Apps | Content | Gmail | Maps | YouTube | YouTube Music | Full Sail | Google Sheets | Profile | Top Simulation ga... | IT-129 - Proxmox... | 9 Best Outdoor Str...

that can affect the user experience, and testing can help you provide a great experience for your users.

Check your knowledge

1. Which of the following is a good example of using testing in your environment? *

- ☐ Waiting for users to reach out to you with reports of errors in your application.
- ☐ Performing functionality tests in the development environment that are different from functionality tests in the production environment.
- ☐ Omitting infrastructure deployment from test plans.
- ☒ Performing regular security tests of your application code in development and production environments.

✓ Regular security tests are a key element of security for your application and can help identify security defects and issues.

2. Which of the following examples uses automation to improve operational excellence? *

- ☐ Manually provisioning development environments every day for your development teams.
- ☐ Logging on Linux VMs after deployment and installing the software packages that are required for the application.
- ☒ Using a configuration template to deploy infrastructure in each environment.

✓ By using a configuration template to deploy infrastructure, you can be sure to have consistent, repeatable environments.

- ☐ Manually copying application binaries from your build system to your deployment infrastructure.

Next unit: Performance efficiency

[Continue >](#)

The screenshot shows a web browser window with the URL `learn.microsoft.com/en-us/training/modules/azure-well-architected-introduction/5-performance-efficiency`. The page title is "Performance efficiency - Training". The main content area is titled "Check your knowledge" and contains two multiple-choice questions. The first question asks for an example of scaling up (vertical scaling), with the correct answer being "Updating a virtual machine to a larger size." The second question asks for an example of scaling out (horizontal scaling), with the correct answer being "Adding more web servers into a web farm." Below the questions, the next unit is "Reliability" and a "Continue >" button is visible.

Lab 8 - Cloud Asset Management | Microsoft Word - NES-Lab8 | Performance efficiency - Training

learn.microsoft.com/en-us/training/modules/azure-well-architected-introduction/5-performance-efficiency

Apps | Content | Gmail | Maps | YouTube | YouTube Music | Full Sail | Google Sheets | Profile | Top Simulation ga... | IT-129 - Proxmox... | 9 Best Outdoor Str...

Look across all layers of your application and identify and remediate performance bottlenecks. These bottlenecks might be poor memory handling in your application, or even the process of adding indexes into your database. It might be an iterative process as you relieve one bottleneck and then uncover another that you were unaware of.

With a thorough approach to performance monitoring, you're able to determine the types of patterns and practices from which your architecture can benefit.

Check your knowledge

1. Which of the following is an example of scaling up (vertical scaling)? *

- ☐ Updating your application to use a queuing service.
- ☐ Adding more web servers into a web farm.
- ☐ Adding another virtual machine into a database cluster.
- ☒ Updating a virtual machine to a larger size.

✓ Changing a virtual machine to a larger size increases the resources available to the instance, and is an example of scaling up (vertical scaling).

2. Which of the following is an example of scaling out (horizontal scaling)? *

- ☐ Updating a virtual machine to a larger size.
- ☐ Adding more storage to a virtual machine.
- ☒ Adding more web servers into a web farm.

✓ Adding more web servers into a web farm is an example of scaling out (horizontal scaling).

- ☐ Replicating backups to another region

Next unit: Reliability

[Continue >](#)

Lab 8 - Cloud Asset Manage... x Microsoft Word - NES-Lab... x Security - Training | Microso... x jobs with quantum physics - | x quantum physics career field: x +

learn.microsoft.com/en-us/training/modules/azure-well-architected-introduction/?-security

Microsoft Customer

Check your knowledge

1. Which of the following types of data might need to have security protections? *

- ☐ Customer data that contains personal information.
- ☐ Financial data that supports business operations.
- ☐ Intellectual property.
- ☒ All of these types of data might need security protections.

✓ All of these types of data might require added security protections.

2. Which of the following examples is an attack you might see at the policies and access layer? *

- ☒ Exposed credentials posted online.
- ✓ Exposed credentials are a huge risk to an organization and apply at the policies and access layer.
- ☐ A SYN flood attack.
- ☐ Following an employee into a datacenter without presenting credentials.
- ☐ Ransomware that encrypts the disks of a virtual machine.

Next unit: Summary

[Continue >](#)


Having an issue? We can help!

Lab 8 - Cloud Asset Manage... x Microsoft Word - NES-Lab... x Summary - Training | Microso... x +

learn.microsoft.com/en-us/training/modules/azure-well-architected-introduction/8-summary#completion

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Introduction to the Microsoft
Azure Well-Architected
Framework

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Next module in this learning path

MODULE

Describe Azure compute and networking services

1 hr 8 min

Azure • Administrator • Beginner

Microsoft Azure Well-Architected Framework – Security

Lab 8 - Cloud Asset Management | Microsoft Word - NES-Lab8 | Design to protect integrity

learn.microsoft.com/en-us/training/modules/azure-well-architected-security/4-design-to-protect-integrity

Check your knowledge

1. Which of the following is a reason to adopt threat scanning in your supply chain? *

- ☒ Scanning can help detect vulnerabilities in your code.
✓ Correct. If attackers breach your systems, the threat of them injecting malicious code is serious.
- ☐ Scanning prevents attackers from exploiting vulnerabilities in your software.
- ☐ Scanning ensures that your code is free of vulnerabilities.
- ☐ Scanning ensures that your code is free of malware.

2. Which of these are examples of cryptographic controls? *

- ☐ Using Azure SQL Database's firewall function to block access to a database.
- ☒ Using code signing and encryption.
✓ Correct. Code signing and encryption are examples of cryptographic controls.
- ☐ Using Azure Policy to enforce security baselines.
- ☐ Using Microsoft Sentinel to scan your environment.

3. How did Contoso ensure that their report backup is immutable? *

- ☐ They automatically move the report to Archive Storage after it's created.
- ☐ The backup is only kept on VM disk storage.
- ☐ The report is automatically deleted after 30 days.
- ☒ The report is backed up to Azure Storage using the write-once-read-many (WORM) feature.
✓ Correct. The WORM feature of Azure Storage ensures that the report is immutable.

Lab 8 - Cloud Asset Management | Microsoft Word - NES-Lab8 | Design to protect confidentiality

learn.microsoft.com/en-us/training/modules/azure-well-architected-security/3-design-to-protect-confidentiality

Check your knowledge

1. Which of the following is an example of a user with a need to have access to confidential customer data? *

- ☒ A customer service representative who needs to resolve customer issues.
✓ Correct. A customer service representative may have a legitimate need to access customer data to resolve customer issues.
- ☐ A marketing employee who sends out marketing emails to customers.
- ☐ A sales executive who needs to create a report for management.
- ☐ A finance employee who needs to create invoices for customers.

2. True or false: data classification is a process that you should perform only once. *

- ☐ True
- ☒ False
✓ Correct. Data classification is an ongoing process that you should perform regularly.

3. What is an example of how Contoso applied encryption to protect data integrity? *

- ☐ They used Azure Disk Encryption to encrypt data on their virtual machines.
- ☐ All of the data was encrypted by default.
- ☒ They used Azure Storage Service Encryption to encrypt data in their storage accounts.
✓ Correct, the team encrypted the storage account used for their DR backup.
- ☐ They used Azure Key Vault to encrypt data in their storage accounts.

Next unit: Design to protect integrity

[Continue >](#)

Lab 8 - Cloud Asset Management | Microsoft Word - NES-Lab1 | Design to protect availability

learn.microsoft.com/en-us/training/modules/azure-well-architected-security/5-design-to-protect-availability

Check your knowledge

1. How did Contoso use security controls to respond to an attack that overwhelmed their system? *

- ☒ They used adopted a design pattern that minimized the blast radius attacks like this one.
- ✓ Correct. By decoupling their application into smaller components, Contoso was able to minimize the blast radius of future similar attacks.
- ☐ They blocked access to public-facing services.
- ☐ They invested in a third-party DDoS protection service.
- ☐ They increased the number of virtual machines in their application.

2. What is an example of a preventative measure that can be used to limit attack vectors? *

- ☐ Monitoring resource health
- ☒ Using an anti-malware solution
- ✓ Correct. Using anti-malware software can prevent malware from being installed on a system.
- ☐ Enabling autoscaling on virtual machines
- ☐ Using Azure Traffic Manager to block malicious traffic

3. True or false: when running in a recovery environment, it's OK to have a relaxed security posture in comparison to the production environment. *

- ☐ True
- ☒ False
- ✓ Correct. The recovery environment should be as secure as the production environment.

Next unit: Sustain and evolve your security posture

Lab 8 - Cloud Asset Management | Microsoft Word - NES-Lab1 | Sustain and evolve your security posture

learn.microsoft.com/en-us/training/modules/azure-well-architected-security/6-sustain-and-evolve-your-security-posture

by addressing this gap in security controls, the workload as a whole is less likely to be at risk of unpatched components. Their use of PaaS and SaaS services also helps limit their exposure to this risk as they don't have to patch underlying infrastructure.

Check your knowledge

1. What type of exercise can help you identify gaps in your security controls? *

- ☐ Failure mode analysis
- ☐ Health modeling
- ☐ Intrusion detection and prevention
- ☒ Threat modeling
- ✓ Correct. Threat modeling is a process that helps you identify gaps in your security controls.

2. True or false: the workload team should handle all security testing. *

- ☐ True
- ☒ False
- ✓ Correct. Teams external to the workload team should handle security testing to ensure that the workload team isn't biased in their testing.

3. In what way was Contoso at risk with their old process for their Apache Spark jobs? *

- ☐ The jobs were not being monitored for successful runs.
- ☐ The jobs were automatically run over night when no one was able to monitor them.
- ☒ The jobs weren't included in the update and patching process.
- ✓ Correct. The components used in the jobs weren't being updated and patched, which presented a security risk.
- ☐ The jobs were not being monitored for failed runs.

Lab 8 - Cloud Asset Management | Microsoft Word - NES-Lab8 | Plan your security readiness

learn.microsoft.com/en-us/training/modules/azure-well-architected-security/2-plan-your-security-readiness

1. What is a benefit of using segmentation in your approach to security? *

- ☒ Segmentation allows you to isolate access to resources based on the principle of least privilege.
- ✓ Correct. Segmentation minimizes the risk of lateral movement by attackers by limiting access to only those resources that are required.
- ☐ Segmentation blocks all access to resources, which prevents attackers from accessing them.
- ☐ Segmentation forces all users to use multifactor authentication (MFA) to access resources.
- ☐ Segmentation forces all users to use single sign-on (SSO) to access resources.

2. What type of plan should you create to ensure that security events are detected and responded to in a timely manner? *

- ☐ A disaster recovery plan
- ☐ A business continuity plan
- ☒ A security incident response plan
- ✓ Correct. A security incident response plan defines the actions that you should take in response to a security incident.
- ☐ A DDoS mitigation plan

3. True or false: Contoso's use of secure development practices will help the team ensure that all code is developed in a consistent standard manner. *

- ☒ True.
- ✓ Correct. Secure development practices dictate the standards that all code development should follow at all times.
- ☐ False.

Next unit: Design to protect confidentiality


Lab 8 - Cloud Asset Management | Microsoft Word - NES-Lab8 | Summary - Training | Microsoft

learn.microsoft.com/en-us/training/modules/azure-well-architected-security/7-summary#completion

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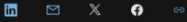
Microsoft Azure Well-Architected Framework - Security

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MODULE
Top 5 security items to consider before pushing to production

45 min

Microsoft Azure Well-Architected Framework – Performance Efficiency

Check your knowledge

1. Why did Contoso's technical team need to research performance capabilities in Azure? *

- ☐ The team wanted to verify that the performance targets they had already negotiated were realistic.
- ☐ They needed to deploy a proof of concept to test the performance of the platform.
- ☐ The team was ready to deploy the workload to production.
- ☒ The team needed to prepare for performance target negotiations.

✓ Correct. It's crucial that you're well prepared for negotiations. Understanding your platform's capabilities before you begin negotiating will help you set realistic targets that are achievable.

2. Which of the following is an example of the types of points that you should cover in a performance target negotiation? *

- ☐ The performance targets for each Azure resource to be deployed.
- ☒ The anticipated growth pattern of the workload.

✓ Correct. The anticipated growth pattern of the workload is an important factor to include when working on identifying performance targets.

- ☐ The tolerable amount of downtime for the workload.
- ☐ The operations headcount required to support the workload.

3. True or false: Performance targets should be contextualized in terms of workload flows, not individual resources. *

- ☒ True.

✓ Correct. Identifying flows and their performance targets is a more effective way to ensure that critical functions of the workload are designed appropriately.

- ☐ False.

Design to meet capacity requirements

1. In the context of designing to meet capacity requirements, what is one way that you can choose the right resources for your workload? *

- ☐ Look at the pricing of the resources and choose the cheapest option.
- ☐ Look for services that are in public preview and prefer those over services that are generally available.
- ☒ Consider features that can fulfill the scalability requirements of your workload.

✓ Correct. Being able to take advantage of built-in scaling features is a great design choice that can help you meet capacity requirements.

- ☐ Choose the most expensive option for your workload's components to ensure that you have enough capacity.

2. What should you use predictive modeling for? *

- ☒ To forecast the future capacity requirements of your workload.

✓ Correct. Predictive modeling can help you forecast the future capacity requirements of your workload.

- ☐ To observe the current performance of the workload.
- ☐ To predict the likelihood of a failure in your workload.
- ☐ To predict the likelihood of a security breach in your workload.

3. What is one hypothesis that Contoso was trying to validate with their POC deployment? *

- ☐ That the Azure platform could support their application design.
- ☐ That they could use Azure Kubernetes Service (AKS) to host their application.
- ☐ That they could successfully migrate their data to Azure.
- ☒ That latency communicating with their on-premises IOT devices might affect their compute requirements.

✓ Correct. Contoso speculated that high latency might affect their compute requirements, so they wanted to test this hypothesis.

Microsoft Word - NES-Lab... x Lab 8 - Cloud Asset Manage... x Microsoft Word - NES-Lab... x Achieve and sustain perform... x Microsoft Azure Well-Archite... x Microsoft Azure Well-Archite... x +

learn.microsoft.com/en-us/training/modules/azure-well-architected-performance-efficiency/4-achieve-and-sustain-performance

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Check your knowledge

1. True or false: performance testing during production is not recommended. *

☐ True.

☒ False.

✓ Correct. You should test performance throughout the development lifecycle, including production.

2. Which of the following aspects of your workload should you monitor to help ensure that performance targets are met? *

☒ Both real and synthetic transactions.

✓ Correct. It is important to monitor both real and synthetic transactions to ensure that performance during real-world usage is acceptable.

☐ Only synthetic transactions.

☐ Only real transactions.

☐ Neither real nor synthetic transactions.

3. Why is the Contoso team planning on changing their database structure? *

☐ To fix broken images in the application.

☐ To improve security.

☒ To handle increased load.

✓ Correct. The team saw some inefficiencies in their database structure that could cause performance issues as the workload's usage increases.

☐ To begin the process of migrating to a new database solution.

Microsoft Word - NES-Lab... x Lab 8 - Cloud Asset Manage... x Microsoft Word - NES-Lab... x Improve efficiency through... x Microsoft Azure Well-Archite... x Microsoft Azure Well-Archite... x +

learn.microsoft.com/en-us/training/modules/azure-well-architected-performance-efficiency/5-improve-efficiency-through-optimization

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1. How did the Contoso team change their development process to address ongoing performance issues? *

☐ They removed their team from internal messaging groups.

☒ They dedicated time during each cycle to address performance issues.

✓ By dedicating time during each cycle to address performance issues, the team was able to address longstanding issues and continuously improve the efficiency of their workload.

☐ They added more developers to the team.

☐ They stopped development of new functions.

2. Which of the following is a good strategy to improve the efficiency of your workload? *

☒ Implement new design patterns and components.

✓ Correct. New design patterns and components can boost performance in ways that may not be possible with your current design.

☐ Relax the security requirements of your workload.

☐ Add more developers to your team.

☐ Use services in public preview.

3. What type of tool can help you analyze performance trends and identify execution bottlenecks? *

☐ A security information and event management tool

☐ A log management tool

☒ An application performance monitoring tool

✓ Correct. An application performance monitoring tool can help you analyze performance trends and identify execution bottlenecks.

☐ A network performance monitoring tool

Microsoft Word - NES-Lab... x

Lab 8 - Cloud Asset Manage... x

Microsoft Word - NES-Lab... x

Summary - Training | Micros... x

Microsoft Azure Well-Archite... x

Microsoft Azure Well-Archite... x

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Microsoft Azure Well-Architected Framework – Operational Excellence

The screenshot shows a web browser window with the URL `learn.microsoft.com/en-us/training/modules/azure-well-architected-operational-excellence/3-establish-development-standards`. The page contains a quiz with three questions. The first question asks for an industry-standard tool for maintaining a backlog, with 'Azure DevOps Boards' selected and marked correct. The second question asks for strategies to improve development velocity and efficiency, with 'Testing early and often in the development cycle' selected and marked correct. The third question asks how Contoso identified effective process changes, with 'They used the reporting features in Azure DevOps to measure their velocity' selected and marked correct.

1. Which of the following is an example of an industry-standard tool for maintaining a backlog? *

- ☐ Microsoft Excel
- ☒ Azure DevOps Boards
- ☐ Azure DevOps Pipelines
- ☐ Azure SQL Database

✓ Correct. Azure DevOps Boards is an industry-standard tool for maintaining a backlog.

2. Which of the following strategies can help you improve your development velocity and efficiency? *

- ☐ Performing all QA testing at the end of the development cycle
- ☐ Relying on customer reports to identify bugs
- ☐ Deploying large and infrequent changes
- ☒ Testing early and often in the development cycle

✓ Correct. Testing early and often helps development efficiency by catching bugs early and reducing the cost of fixing them.

3. How was Contoso able to identify which of their recent process changes were most effective in improving their quality and efficiency? *

- ☒ They used the reporting features in Azure DevOps to measure their velocity.
- ☐ They timed how long it took to complete each step in their development process.
- ☐ They asked their customers to rate their satisfaction with the product.
- ☐ They took an internal survey to see how their developers felt about the changes.

✓ Correct. Azure DevOps provides reporting features that can help you measure your velocity and identify areas for improvement.

The screenshot shows a web browser window with the URL `learn.microsoft.com/en-us/training/modules/azure-well-architected-operational-excellence/4-evolve-operations-with-observability`. The page has a heading 'Check your knowledge' and contains a quiz with three questions. The first question asks how Contoso identified the root cause of blank pages and generic errors, with 'The team added deeper monitoring to the application' selected and marked correct. The second question asks for a good way to design monitoring dashboards, with 'Build dashboards that are specific to each team that needs data about the workload' selected and marked correct. The third question is a true/false statement about alerts, with 'False' selected and marked correct.

Check your knowledge

1. How was Contoso able to identify the root cause of the issue with blank pages and generic errors some users experienced? *

- ☐ The team asked the users to provide more information about the errors they were seeing.
- ☒ The team added deeper monitoring to the application.
- ☐ The team performed chaos testing.
- ☐ The team asked the operations team to reproduce the issue.

✓ Correct. Adding additional monitoring to the application allowed the team to identify that the database query timeouts were the root cause.

2. Which of the following is good way to design monitoring dashboards? *

- ☐ Build a single dashboard that provides all the information that anyone might need.
- ☐ Build a dashboard that provides all the information that anyone might need, but allow users to filter the information to only what they need.
- ☒ Build dashboards that are specific to each team that needs data about the workload.
- ☐ Build custom dashboards for each user.

✓ Correct. Dashboards should be designed to provide the right information to the right people. This means that each team should have their own dashboard that provides the information they need to do their job.

3. True or false: alerts should mostly be informational. *

- ☐ True
- ☒ False

✓ Correct. Alerts should be actionable, not informational.

Next, write, Deploy with confidence

Microsoft Word - NES-Lab8... x Lab 8 - Cloud Asset Manag... x Microsoft Word - NES-Lab8... x Embrace DevOps culture - T... x Microsoft Azure Well-Archite... x +

learn.microsoft.com/en-us/training/modules/azure-well-architected-operational-excellence/2-embrace-devops-culture

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a single source of truth, saving time and energy that would otherwise be spent searching for information.

Check your knowledge

1. Which of the following is a benefit of operations and development teams using a common set of tools? *

- ☐ Using a common toolset reduces the need for monitoring and alerting.
- ☒ Using a common toolset can reduce collaboration and communication issues.
✓ Correct. Using a common toolset can make it easier to share knowledge and collaborate by reducing the number of communication and collaboration methods.
- ☐ Using a common toolset reduces the need for automation.
- ☐ Using a common toolset can reduce the amount of security controls required.

2. Which of the following is an example of building a continuous learning and experimentation mindset? *

- ☒ Conducting blameless postmortems after incidents.
✓ Correct. Blameless postmortems are a key component of DevOps culture and are used to learn from incidents and improve processes.
- ☐ Separating document repositories for operations and development teams.
- ☐ Making code reviews optional for all deployments.
- ☐ Letting new hires choose whether they would like to go through onboarding or not.

3. True or false: Contoso suffered from a lack of standardization in their toolset. *

- ☐ False
- ☒ True
✓ Correct. Contoso suffered from a lack of standardization in their toolset. This affected productivity and quality.

Microsoft Word - NES-Lab8... x Lab 8 - Cloud Asset Manag... x Microsoft Word - NES-Lab8... x Automate for efficiency - Tr... x Microsoft Azure Well-Archite... x +

learn.microsoft.com/en-us/training/modules/azure-well-architected-operational-excellence/6-automate-for-efficiency

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1. Which of the following isn't an important factor to consider when evaluating your workflows and potential for automation? *

- ☐ The frequency that the task is performed
- ☐ The complexity of the task
- ☐ How accurately the task is performed by humans
- ☒ The documentation available for the task.
✓ Correct. The documentation available for the task is important, but shouldn't be a deciding factor when evaluating it for automation.

2. How did Contoso approach the automation of their UI testing? *

- ☐ They used a third-party tool to automate the UI testing
- ☒ They modified their UI components to better support automation
✓ Correct. The team realized that the UI components didn't easily support automation, so they modified those components.
- ☐ They abandoned the idea of automating UI testing
- ☐ They wrote new tests that were more automation-friendly

3. How should you consider your automation with respect to your workload as a whole? *

- ☒ The automation should meet the same standards as the rest of the workload for all WAF pillar areas.
✓ Correct. Automation is integral to the workload, and should be maintained with the same standards as the rest of the workload components.
- ☐ The automation should be considered a separate workload, and should be maintained independently.
- ☐ The automation is an inconsequential part of the workload.
- ☐ All automation code should be maintained in a separate repository from the workload code.

Microsoft Word - NES-Lab8... x Lab 8 - Cloud Asset Manage... x Microsoft Word - NES-Lab8... x Adopt safe deployment prac... x Microsoft Azure Well-Archit... x +

learn.microsoft.com/en-us/training/modules/azure-well-architected-operational-excellence/7-adopt-safe-deployment-practices

1. Which of the following is a fundamental principle of safe deployment practices? *

- ☒ All deployments should be automated through pipelines.
✓ Correct. All deployments should be automated through pipelines. This ensures that deployments are consistent and repeatable.
- ☐ All deployments should be performed manually.
- ☐ Only deployments to production should be automated.
- ☐ Only deployments to non-production environments should be automated.

2. Which of the following is a recommended deployment strategy? *

- ☐ Prefer large, infrequent deployments.
- ☒ Prefer small, frequent deployments.
✓ Correct. Small, frequent deployments are less risky and easier to roll back.
- ☐ Prefer large, frequent deployments.
- ☐ Prefer small, infrequent deployments.

3. How did Contoso adopt the approach of progressive exposure? *

- ☐ They created separate environments for each feature, and exposed the environments to users as they were ready.
- ☐ They had users enroll in a test program, and exposed new features to the users in the program.
- ☐ They used a blue-green deployment strategy to push a new version to a portion of the production environment, and then gradually increased the exposure of the new version.
- ☒ They used feature flags to control the exposure of new features to users.
✓ Correct. This allowed Contoso to gradually expose new features to users, and to roll back the features if necessary.

Microsoft Word - NES-Lab8... x Lab 8 - Cloud Asset Manage... x Microsoft Word - NES-Lab8... x Deploy with confidence - Tra... x Microsoft Azure Well-Archit... x +

learn.microsoft.com/en-us/training/modules/azure-well-architected-operational-excellence/5-deploy-with-confidence

1. How can deploying infrastructure as code help you deploy with confidence? *

- ☐ Infrastructure that's deployed as code doesn't have to be patched.
- ☒ Infrastructure that's deployed as code can be consistently and repeatedly deployed.
✓ Correct. Deploying infrastructure as code allows you to consistently and repeatedly deploy your workload, cutting down the risk of human error.
- ☐ Infrastructure that's deployed as code is less prone to security vulnerabilities.
- ☐ Infrastructure that is deployed as code relieves compliance requirements.

2. How did moving the IaC code to the same repository as the application code help the Contoso team deploy with confidence? *

- ☐ It allowed them to bypass their QA testing processes for the IaC code.
- ☐ It allowed them to remove large portions of their IaC code due to overlap with the application code.
- ☒ It allowed them to apply the same governance and security standards across both codebases.
✓ Correct. By moving the IaC code to the same repository as the application code, the Contoso team cut down the risk of security or governance issues by applying the same standards across both codebases.
- ☐ It allowed them to remove large sections of the application code due to overlap with the IaC code.

3. Which of the following can help ensure that deploying a DR environment will go efficiently? *

- ☒ A common deployment manifest
✓ Correct. Using a common deployment manifest across your workload environments ensures that your DR environment mirrors your primary environment and can be deployed quickly.
- ☐ A manual deployment process
- ☐ A different deployment manifest for each environment
- ☐ Maintaining a separate repository for your DR environment

Microsoft Word - NES-Lab8

Lab 8 - Cloud Asset Manage

Microsoft Word - NES-Lab8

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Microsoft Azure Well-Archit

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Microsoft Azure Well-Architected Framework – Reliability

Microsoft Word - NES-Lab... x Lab 6 - Cloud Asset Manag... x Microsoft Word - NES-Lab... x Design for resilience - Train... x

learn.microsoft.com/en-us/training/modules/azure-well-architected-reliability/3-design-for-resilience

1. What capabilities should you design into your workload to ensure it's resilient to malfunctions? *

- ☐ Monitoring and alerting
- ☐ Health modeling
- ☐ Threat analysis
- ☒ Self-preservation

✓ Correct. Self-preservation capabilities can minimize the effects of malfunctions on your workload by introducing mechanisms that help you operate in a degraded state when malfunctions occur.

2. What is an example of adding redundancy in your workload? *

- ☐ Increasing the retention policy for your workload's data
- ☐ Purchasing reserved instances for your workload's compute resources
- ☐ Enabling Transparent Data Encryption (TDE) for your workload's data
- ☒ Enabling geo-replication for your workload's data

✓ Correct. Enabling geo-replication for your workload's data is an example of adding redundancy by creating a secondary database that can be used as a failover instance.

3. The workload team needs to understand how a DDoS attack may affect the workload. What should the team do before any testing? *

- ☐ Research the Microsoft SLAs for the Azure services used by the workload.
- ☐ Enable autoscaling for the workload's compute resources.
- ☐ Ensure that the Cosmos DB account used by the workload has geo-replication enabled.
- ☒ Perform a failure mode analysis.

✓ Correct. A failure mode analysis helps you understand how a DDoS attack may affect the workload.

Microsoft Word - NES-Lab... x Lab 6 - Cloud Asset Manag... x Microsoft Word - NES-Lab... x Design for business requirem... x

learn.microsoft.com/en-us/training/modules/azure-well-architected-reliability/2-design-for-business-requirements

1. Which of the following isn't an aspect of the workload to define reliability targets for? *

- ☐ The workload's system and user flows.
- ☒ The security monitoring system that will monitor the workload.

✓ The security monitoring system is important, but it isn't part of the workload itself.

- ☐ The workload's individual components.
- ☐ The workload as a whole.

2. When decomposing your workload into components, which of the following aspects should you consider for your reliability design? *

- ☐ Internal dependencies only.
- ☐ External dependencies only.
- ☒ All internal and external dependencies.

✓ Both internal and external dependencies can affect your workload if there's an issue, so you should consider all dependencies in your reliability design.

- ☐ Only dependencies that are involved in critical flows.

3. The Contoso Insurance workload team is interested in learning about the guaranteed uptime for different Azure App Service SKUs. Where should they research this information? *

- ☒ The Microsoft SLAs for Online Services documentation.

✓ The Microsoft SLAs for Online Services provide information about the guaranteed uptime for different Azure App Service SKUs.

- ☐ The Azure App Service pricing page.
- ☐ The Azure App Service documentation.
- ☐ The Azure App Service FAQ.

Microsoft Word - NES-Lab8... x Lab 8 - Cloud Asset Manage... x Microsoft Word - NES-Lab8... x Design for recovery - Training... x +

learn.microsoft.com/en-us/training/modules/azure-well-architected-reliability/4-design-for-recovery

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1. Which of the following is an example of metrics that help drive your disaster recovery plans? *

- ☐ Number of successful backups per day
- ☐ Average time between deployment failures
- ☐ Hours of downtime per month
- ☒ Average time to restore a database from backup

✓ Your disaster recovery plans should include metrics that help you understand how long it takes to restore your services.

2. Which of the following scenarios is an example of how to deal with stateful data for recovery purposes? *

- ☐ Moving cold data to archive storage
- ☐ Migrating from App Service to Azure Kubernetes Service (AKS)
- ☐ Using Azure SQL Database instead of SQL Server on a VM
- ☒ Changing from a single region deployment of Cosmos DB to a multi-region deployment

✓ Correct. Cosmos DB is a stateful service, so changing from a single region deployment to a multi-region deployment replicates your data to multiple regions, which lowers your RTO and RPO.

3. Contoso has a mission-critical line-of-business application in Azure. What is one way they could implement self-healing to improve the reliability of their application? *

- ☒ Use Azure Monitor actions to automatically restart the application if it fails
- ☐ Use Azure Policy to check for compliance with the company's security policies
- ☐ Increase the backup frequency of the application's database
- ☐ Use Azure Advisor to identify potential performance issues with the application

✓ Correct. Azure Monitor actions can be used to automatically perform actions when an alert is triggered. In this case, the action would be to restart the application.

Microsoft Word - NES-Lab8... x Lab 8 - Cloud Asset Manage... x Microsoft Word - NES-Lab8... x Keep it simple - Training | M... x +

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1. Why should you try to minimize the number of components in your workload? *

- ☒ Minimizing the components in your workload reduces the complexity, which makes it easier to manage and troubleshoot.
- ☐ Minimizing the number of components in your workload means you don't have to monitor the workload.
- ☐ Minimizing the number of components in your workload means you can use services that are in preview.
- ☐ Minimizing the number of components in your workload reduces the need to enable scaling.

✓ Correct. The more components you have, the more complex your workload is. This makes it more difficult to manage and troubleshoot.

2. What elements of your software development lifecycle should be standardized? *

- ☐ Development languages, frameworks, and tools
- ☐ Documentation
- ☐ Testing
- ☒ All of the above

✓ Correct. All of these elements should be standardized to ensure that your workload is reliable and easy to manage.

3. How did moving to Azure App Services help the Contoso team simplify their workload? *

- ☐ It saved them from having to rewrite the application.
- ☒ It allowed them to reduce the amount of code they had to maintain.
- ☐ It allowed them to containerize their application.
- ☐ It allowed the team to move to a serverless architecture.

✓ Correct. By moving to Azure App Services, the Contoso team was able to reduce the amount of code they had to maintain by removing the instrumentation code.

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