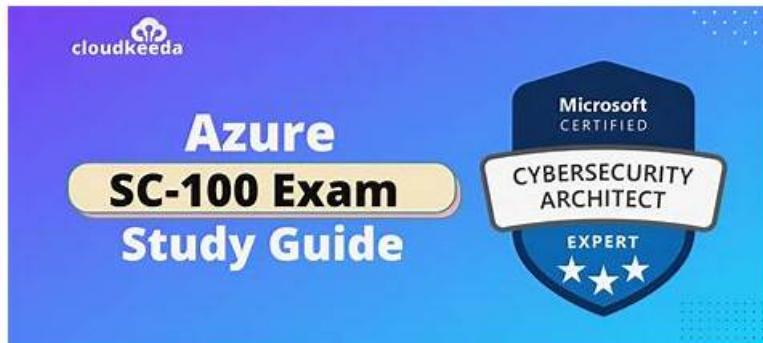


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## Microsoft Cybersecurity Architect Sample Questions (Q169-Q174):

### NEW QUESTION # 169

Your company plans to follow DevSecOps best practices of the Microsoft Cloud Adoption Framework for Azure to integrate DevSecOps processes into continuous integration and continuous deployment (CI/CD) DevOps pipelines. You need to recommend

which security-related tasks to integrate into each stage of the DevOps pipelines. What should recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**



Microsoft

Infrastructure scanning: Go to production

Build and test

Commit the code

**Go to production**

Operate

Plan and develop

Static application security testing: Plan and develop

Build and test

Commit the code

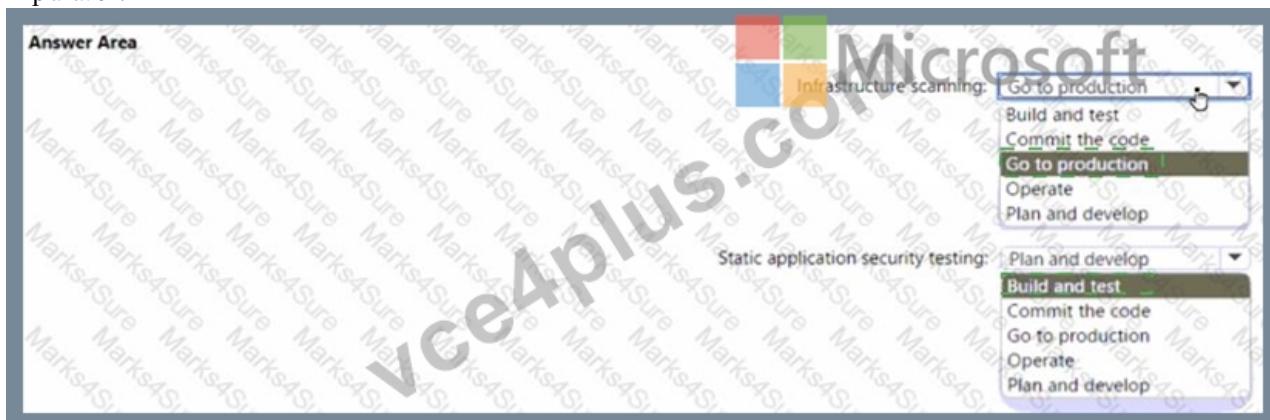
Go to production

Operate

Plan and develop

**Answer:**

Explanation:



Microsoft

Infrastructure scanning: Commit the code

Build and test

**Commit the code**

Go to production

Operate

Plan and develop

Static application security testing: Plan and develop

Build and test

Commit the code

Go to production

Operate

Plan and develop

Explanation:

**Answer Area**



Microsoft

Infrastructure scanning: Plan and develop

Static application security testing: Plan and develop

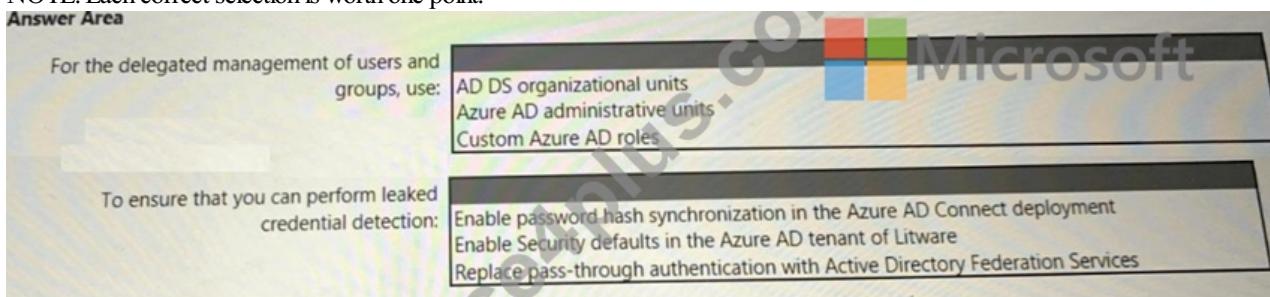
## NEW QUESTION # 170

You need to recommend an identity security solution for the Azure AD tenant of Litware. The solution must meet the identity requirements and the regulatory compliance requirements.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**



For the delegated management of users and groups, use:

- AD DS organizational units
- Azure AD administrative units
- Custom Azure AD roles

To ensure that you can perform leaked credential detection:

- Enable password hash synchronization in the Azure AD Connect deployment
- Enable Security defaults in the Azure AD tenant of Litware
- Replace pass-through authentication with Active Directory Federation Services

**Answer:**

Explanation:

**Answer Area**

For the delegated management of users and groups, use:

- AD DS organizational units
- Azure AD administrative units**
- Custom Azure AD roles

To ensure that you can perform leaked credential detection:

- Enable password hash synchronization in the Azure AD Connect deployment**
- Enable Security defaults in the Azure AD tenant of Litware
- Replace pass-through authentication with Active Directory Federation Services

### NEW QUESTION # 171

You have a Microsoft 365 subscription and an Azure subscription. Microsoft 365 Defender and Microsoft Defender for Cloud are enabled.

The Azure subscription contains 50 virtual machines. Each virtual machine runs different applications on Windows Server 2019. You need to recommend a solution to ensure that only authorized applications can run on the virtual machines. If an unauthorized application attempts to run or be installed, the application must be blocked automatically until an administrator authorizes the application.

Which security control should you recommend?

- **A. application control policies in Microsoft Defender for Endpoint**
- B. app discovery anomaly detection policies in Microsoft Defender for Cloud Apps
- C. app registrations in Azure AD
- D. Azure Security Benchmark compliance controls in Defender for Cloud

**Answer: A**

### NEW QUESTION # 172

Case Study 1 - Fabrikam, Inc

OverView

Fabrikam, Inc. is an insurance company that has a main office in New York and a branch office in Paris.

Existing Environment

On-premises Environment

The on-premises network contains a single Active Directory Domain Services (AD DS) domain named corp.fabrikam.com

Azure Environment

Fabrikam has the following Azure resources:

- A Microsoft Entra tenant named fabrikam.onmicrosoft.com that syncs with corp.fabrikam.com
- A single Azure subscription named Sub1
- A virtual network named Vnet1 in the East US Azure region
- A virtual network named Vnet2 in the West Europe Azure region
- An instance of Azure Front Door named FD1 that has Azure Web Application Firewall (WAF) enabled
- A Microsoft Sentinel workspace
- An Azure SQL database named ClaimsDB that contains a table named ClaimDetails
- 20 virtual machines that are configured as application servers and are NOT onboarded to Microsoft Defender for Cloud
- A resource group named TestRG that is used for testing purposes only
- An Azure Virtual Desktop host pool that contains personal assigned session hosts
- All the resources in Sub1 are in either the East US or the West Europe region.

Partners

Fabrikam has contracted a company named Contoso, Ltd. to develop applications. Contoso has the following infrastructure:

- An Microsoft Entra named contoso.onmicrosoft.com
- An Amazon Web Services (AWS) implementation named ContosoAWS1 that contains AWS EC2 instances used to host test workloads for the applications of Fabrikam Developers at Contoso will connect to the resources of Fabrikam to test or update applications.

The developers will be added to a security Group named Contoso Developers in fabrikam.onmicrosoft.com that will be assigned to roles in Sub1. The ContosoDevelopers group is assigned the db.owner role for the ClaimsDB database.

Compliance Event

Fabrikam deploys the following compliance environment:

- Defender for Cloud is configured to assess all the resources in Sub1 for compliance to the HIPAA HITRUST standard.
- Currently, resources that are noncompliant with the HIPAA HITRUST standard are remediated manually.

- Qualys is used as the standard vulnerability assessment tool for servers.

#### Problem Statements

The secure score in Defender for Cloud shows that all the virtual machines generate the following recommendation. Machines should have a vulnerability assessment solution. All the virtual machines must be compliant in Defender for Cloud.

#### ClaimApp Deployment

Fabrikam plans to implement an internet-accessible application named ClaimsApp that will have the following specification

- ClaimsApp will be deployed to Azure App Service instances that connect to Vnet1 and Vnet2.
- Users will connect to ClaimsApp by using a URL of <https://claims.fabrikam.com>.
- ClaimsApp will access data in ClaimsDB.
- ClaimsDB must be accessible only from Azure virtual networks.
- The app services permission for ClaimsApp must be assigned to ClaimsDB.

#### Application Development Requirements

Fabrikam identifies the following requirements for application development:

- Azure Dev/Test labs will be used by developers for testing.
- All the application code must be stored in GitHub Enterprise.
- Azure Pipelines will be used to manage application deployments.
- All application code changes must be scanned for security vulnerabilities, including application code or configuration files that contain secrets in clear text. Scanning must be done at the time the code is pushed to a repository.

#### Security Requirement

Fabrikam identifies the following security requirements:

- Internet-accessible applications must prevent connections that originate in North Korea.
- Only members of a group named InfraSec must be allowed to configure network security groups (NSGs) and instances of Azure Firewall, VJM, and Front Door in Sub1.
- Administrators must connect to a secure host to perform any remote administration of the virtual machines. The secure host must be provisioned from a custom operating system image.

#### AWS Requirements

Fabrikam identifies the following security requirements for the data hosted in ContosoAWSV.

- Notify security administrators at Fabrikam if any AWS EC2 instances are noncompliant with secure score recommendations.
- Ensure that the security administrators can query AWS service logs directly from the Azure environment.

#### Contoso Developer Requirements

Fabrikam identifies the following requirements for the Contoso developers:

- Every month, the membership of the ContosoDevelopers group must be verified.
- The Contoso developers must use their existing contoso.onmicrosoft.com credentials to access the resources in Sub1.
- The Comoro developers must be prevented from viewing the data in a column named MedicalHistory in the ClaimDetails table.

#### Compliance Requirement

Fabrikam wants to automatically remediate the virtual machines in Sub1 to be compliant with the HIPPA HITRUST standard. The virtual machines in TestRG must be excluded from the compliance assessment.

#### Hotspot Question

You need to recommend a solution to meet the compliance requirements.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

#### Answer Area

To enforce compliance to the regulatory standard, create:



To exclude TestRG from the compliance assessment:

An Azure Automation account

A blueprint

A managed identity

Workflow automation

Edit an Azure blueprint

Modify a Defender for Cloud workflow automation

Modify an Azure policy definition

Update an Azure policy assignment

#### Answer:

Explanation:

**Answer Area**

To enforce compliance to the regulatory standard, create:

|                             |
|-----------------------------|
| An Azure Automation account |
| <b>A blueprint</b>          |
| A managed identity          |
| Workflow automation         |

To exclude TestRG from the compliance assessment:

|   |
|---|
| Edit an Azure blueprint                         |
| Modify a Defender for Cloud workflow automation |
| Modify an Azure policy definition               |
| <b>Update an Azure policy assignment</b>        |

Explanation:

Box 1: A blueprint

The question is about what you can use to enforce compliance to regulatory standards not to remediate non-compliance.

Azure Blueprints are used to enforce standards.

Box 2: Update a Azure policy assignment

Reference:

<https://learn.microsoft.com/en-us/azure/governance/policy/tutorials/create-and-manage#update-assignment-with-exclusion>

<https://docs.microsoft.com/en-us/azure/governance/policy/concepts/assignment-structure>

**NEW QUESTION # 173**

Your company has an office in Seattle.

The company has two Azure virtual machine scale sets hosted on different virtual networks.

The company plans to contract developers in India.

You need to recommend a solution provide the developers with the ability to connect to the virtual machines over SSL from the Azure portal. The solution must meet the following requirements:

- \* Prevent exposing the public IP addresses of the virtual machines.
- \* Provide the ability to connect without using a VPN.
- \* Minimize costs.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Deploy Azure Bastion to each virtual network.
- B. Create NAT rules and network rules in Azure Firewall.
- **C. Create a hub and spoke network by using virtual network peering.**
- D. Enable just-in-time VM access on the virtual machines.
- **E. Deploy Azure Bastion to one virtual network.**

**Answer: C,E**

Explanation:

<https://docs.microsoft.com/en-us/learn/modules/connect-vm-with-azure-bastion/2-what-is-azure-bastion>

**NEW QUESTION # 174**

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