

SC-100^{Q&As}

Microsoft Cybersecurity Architect

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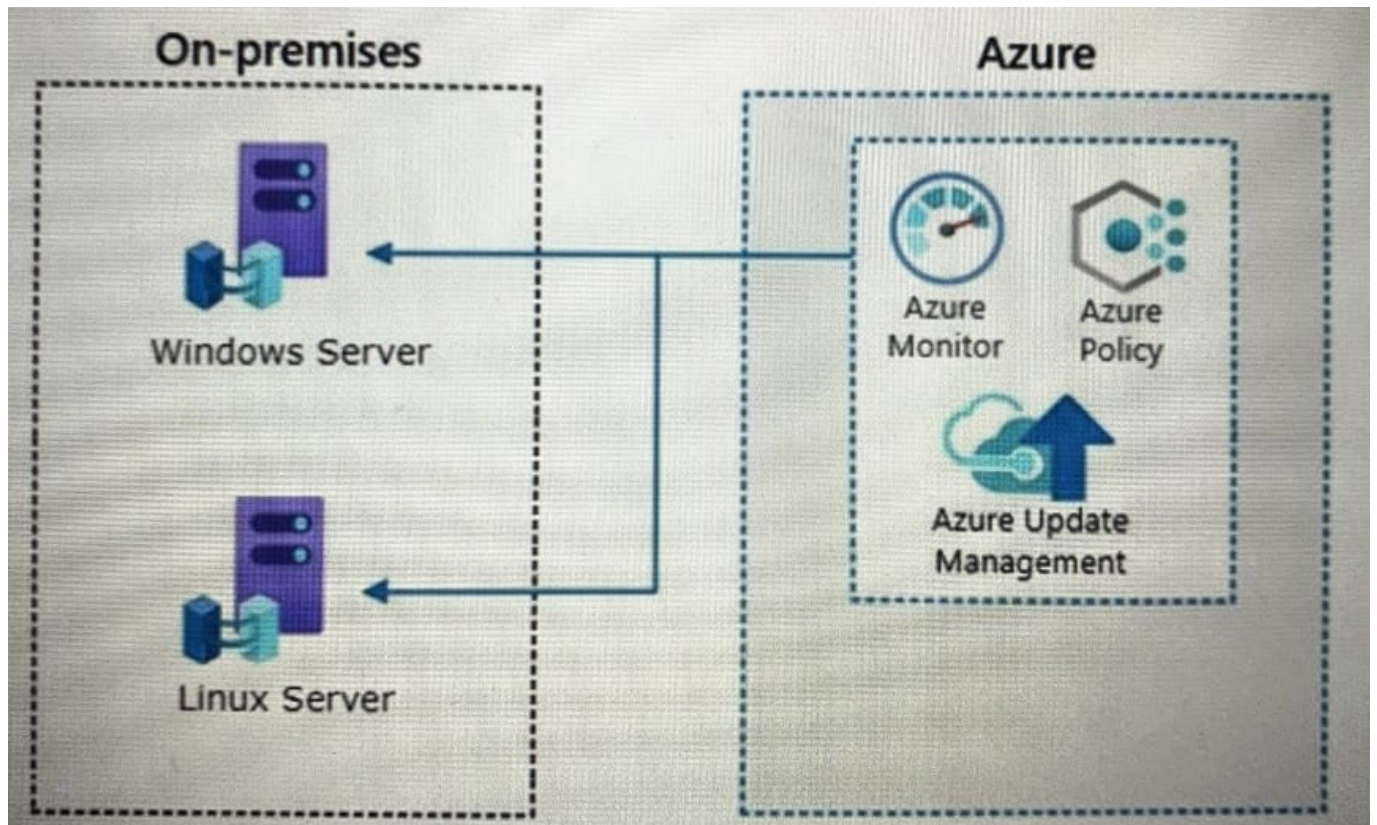


QUESTION 1

Your company has a hybrid cloud infrastructure.

Data and applications are moved regularly between cloud environments.

The company's on-premises network is managed as shown in the following exhibit.



You are designing security operations to support the hybrid cloud infrastructure. The solution must meet the following requirements:

1.

Govern virtual machines and servers across multiple environments.

2.

Enforce standards for all the resources across all the environments by using Azure Policy.

Which two components should you recommend for the on-premises network? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. on-premises data gateway

B. Azure VPN Gateway

C. guest configuration in Azure Policy

D. Azure Arc

E. Azure Bastion

Correct Answer: CD

C: Azure Policy's guest configuration feature provides native capability to audit or configure operating system settings as code, both for machines running in Azure and hybrid Arc-enabled machines. The feature can be used directly per-machine, or at-scale orchestrated by Azure Policy.

Configuration resources in Azure are designed as an extension resource. You can imagine each configuration as an additional set of properties for the machine. Configurations can include settings such as:

Operating system settings Application configuration or presence Environment settings Configurations are distinct from policy definitions. Guest configuration utilizes Azure Policy to dynamically assign configurations to machines.

D: Azure Arc is a bridge that extends the Azure platform to help you build applications and services with the flexibility to run across datacenters, at the edge, and in multicloud environments.

Microsoft recently [2019/2020] released Azure Arc, which unlocks new hybrid scenarios for organizations by bringing new Azure services and management features to any infrastructure.

By the time of writing this post, the public preview supports the following operating systems:

Windows Server 2012 R2 and newer

Ubuntu 16.04 and 18.04

Register the required Resource Providers in Azure

First, we need to register the required resource providers in Azure. Therefore, take the following steps:

Open a browser and navigate to the Azure portal at: <https://portal.azure.com/>

Login with your administrator credentials.

Open Cloud Shell in the top right menu, and add the following lines of code to register the Microsoft.HybridCompute and the Microsoft.GuestConfiguration resource providers:

```
Register-AzResourceProvider -ProviderNamespace Microsoft.HybridCompute
```

```
Register-AzResourceProvider -ProviderNamespace Microsoft.GuestConfiguration
```

This will result in the following output:

```
Azure:/
PS Azure:\> Register-AzResourceProvider -ProviderNamespace Microsoft.HybridCompute

ProviderNamespace : Microsoft.HybridCompute
RegistrationState  : Registering
ResourceTypes     : {machines, operations}
Locations         : {West US 2, West Europe, Southeast Asia}

Azure:/
PS Azure:\> Register-AzResourceProvider -ProviderNamespace Microsoft.GuestConfiguration

ProviderNamespace : Microsoft.GuestConfiguration
RegistrationState  : Registering
ResourceTypes     : {guestConfigurationAssignments, software, softwareUpdates, softwareUpdateProfile..}
Locations         : {East US 2, South Central US}
```

Note that the resource providers are only registered in specific locations.

(Networking

During installation and runtime, the agent requires connectivity to Azure Arc service endpoints. If outbound connectivity is blocked by the firewall, make sure that the following URLs are not blocked:

Required Azure service endpoints include:

Guest Configuration)

Incorrect:

Not A, Not B: Connect the on-premises machine to Azure Arc

To connect the on-premises machine to Azure Arc, we first need install the agent on the on-premises machine (not any Gateways).

Not E: Azure Bastion now supports connectivity to Azure virtual machines or on-premises resources via specified IP address.

Azure Bastion is a fully managed service that provides more secure and seamless Remote Desktop Protocol (RDP) and Secure Shell Protocol (SSH) access to virtual machines (VMs) without any exposure through public IP addresses.

Reference: <https://techcommunity.microsoft.com/t5/azure-developer-community-blog/azure-arc-for-servers-getting-started/ba-p/1262062>

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/manage/hybrid/server/best-practices/arc-policies-mma>

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

QUESTION 2

You have a Microsoft 365 tenant.

Your company uses a third-party software as a service (SaaS) app named App1 that is integrated with an Azure AD

tenant.

You need to design a security strategy to meet the following requirements:

-

Users must be able to request access to App1 by using a self-service request.

-

When users request access to App1, they must be prompted to provide additional information about their request.

-

Every three months, managers must verify that the users still require access to App1. What should you include in the design?

A.

Microsoft Entra Identity Governance

B.

connected apps in Microsoft Defender for Cloud Apps

C.

access policies in Microsoft Defender for Cloud Apps

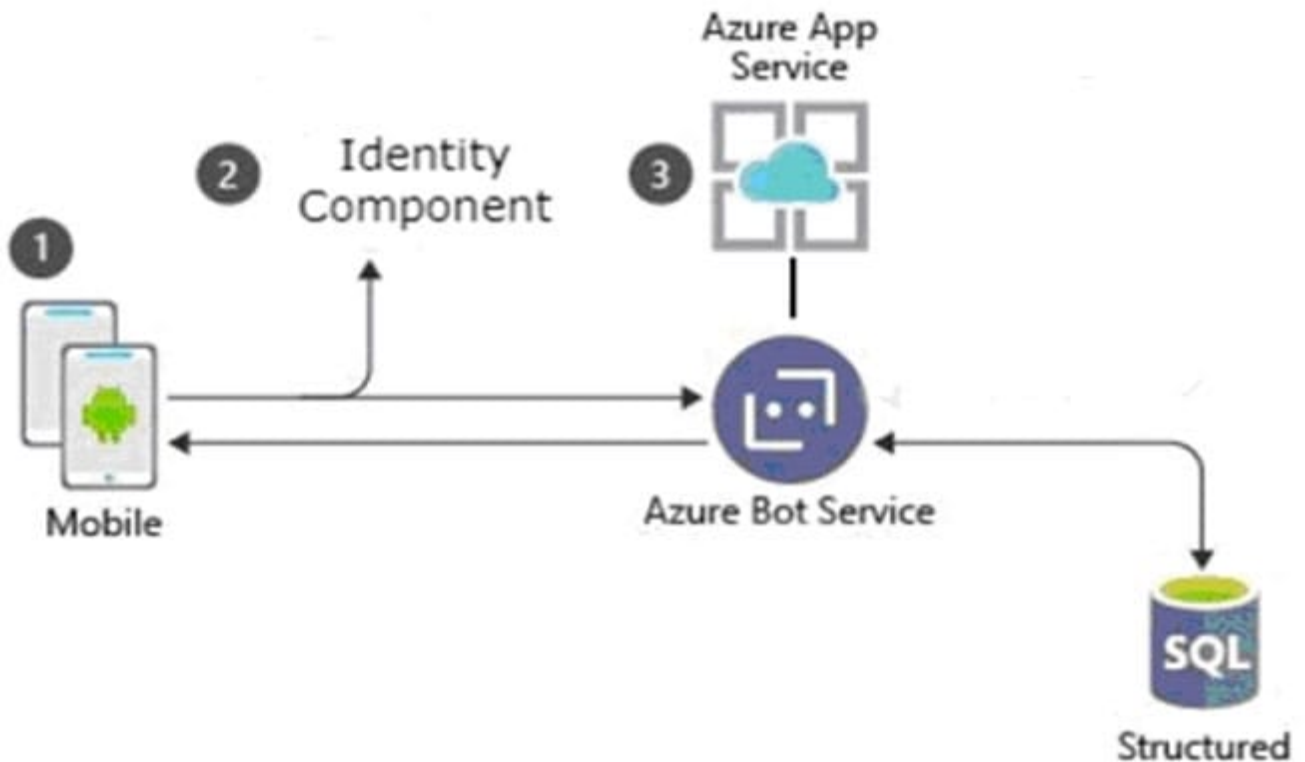
D.

Azure AD Application Proxy

Correct Answer: A

QUESTION 3

A customer uses Azure to develop a mobile app that will be consumed by external users as shown in the following exhibit.



You need to design an identity strategy for the app. The solution must meet the following requirements:

1.
Enable the usage of external IDs such as Google, Facebook, and Microsoft accounts.
2.
Be managed separately from the identity store of the customer.
3.
Support fully customizable branding for each app. Which service should you recommend to complete the design?

- A. Azure Active Directory (Azure AD) B2B
- B. Azure Active Directory Domain Services (Azure AD DS)
- C. Azure Active Directory (Azure AD) B2C
- D. Azure AD Connect

Correct Answer: C

Azure Active Directory B2C (Azure AD B2C), an identity store, is an identity management service that enables custom control of how your customers sign up, sign in, and manage their profiles when using your iOS, Android, .NET, single-page

(SPA), and other applications.

You can set up sign-up and sign-in with a Facebook/Google account using Azure Active Directory B2C.

Branding

Branding and customizing the user interface that Azure Active Directory B2C (Azure AD B2C) displays to your customers helps provide a seamless user experience in your application. These experiences include signing up, signing in, profile

editing, and password resetting. This article introduces the methods of user interface (UI) customization.

Incorrect:

Not D: Azure AD Connect is a tool for connecting on-premises identity infrastructure to Microsoft Azure AD.

Reference: <https://docs.microsoft.com/en-us/azure/active-directory-b2c/>

<https://docs.microsoft.com/en-us/azure/active-directory-b2c/identity-provider-facebook?pivots=b2c-user-flow>

<https://docs.microsoft.com/en-us/azure/active-directory-b2c/customize-ui-with-html?pivots=b2c-user-flow>

QUESTION 4

You have a Microsoft 365 tenant. Your company uses a third-party software as a service (SaaS) app named App1. App1 supports authenticating users by using Azure AD credentials.

You need to recommend a solution to enable users to authenticate to App1 by using their Azure AD credentials.

What should you include in the recommendation?

- A. Azure AD Application Proxy
- B. Azure AD B2C
- C. an Azure AD enterprise application
- D. a relying party trust in Active Directory Federation Services (AD FS)

Correct Answer: A

QUESTION 5

You have a customer that has a Microsoft 365 subscription and uses the Free edition of Azure Active Directory (Azure AD)

The customer plans to obtain an Azure subscription and provision several Azure resources.

You need to evaluate the customer's security environment.

What will necessitate an upgrade from the Azure AD Free edition to the Premium edition?

- A. Azure AD Privileged Identity Management (PIM)

- B. role-based authorization
- C. resource-based authorization
- D. Azure AD Multi-Factor Authentication

Correct Answer: D

Multifactor authentication (MFA), an important component of the Zero Trust Model, is missing in Azure AD Free edition.

Azure Active Directory Free	Office 365	Azure Active Directory Premium P1	Azure Active Directory Premium P2
Free	Free	\$6.00 user/month	\$9.00 user/month
Enable now	Enable now	Sign in to purchase	Sign in to purchase
	See Office365 plans >	Try it free for 30 days >	Try it free for 30 days >

Authentication, single sign-on and multifactor authentication (MFA)	Azure Active Directory Free	Office 365	Azure Active Directory Premium P1	Azure Active Directory Premium P2
+				

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