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References:

<https://docs.microsoft.com/en-us/azure/security-center/security-center-pricing>

### **QUESTION 8**

You need to configure WebApp1 to meet the data and application requirements.

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

NOTE: Each correct selection is worth one point.

- A. Upload a public certificate.
- B. Turn on the HTTPS Only protocol setting.
- C. Set the Minimum TLS Version protocol setting to 1.2.
- D. Change the pricing tier of the App Service plan.
- E. Turn on the Incoming client certificates protocol setting.

**Correct Answer:** AC

#### **Explanation:**

A: To configure Certificates for use in Azure Websites Applications you need to upload a public Certificate.

C: Over time, multiple versions of TLS have been released to mitigate different vulnerabilities. TLS 1.2 is the most current version available for apps running on Azure App Service.

## **Topic 2, Contoso**

Please wait while the virtual machine loads. Once loaded, you may proceed to the lab section. This may take a few minutes, and the wait time will not be deducted from your overall test time.

When the Next button is available, click it to access the lab section. In this section, you will perform a set of tasks in a live environment. While most functionality will be available to you as it would be in a live environment some functionality (e.g., copy and paste, ability to navigate to external websites) will not be possible by design.

Scoring is based on the outcome of performing the tasks stated in the lab. In other words, it doesn't matter how you accomplish the task, if you successfully perform it, you will earn credit for that task.

Labs are not timed separately, and this exam may have more than one lab that you must complete. You can use as much time as you would like to complete each lab. But, you should manage your time appropriately to ensure that you are able to complete the lab(s) and all

Please note that once you submit your work by clicking the Next button within a lab.

### **Task 1:**

You need to configure Azure to allow RDP connections from the Internet to a virtual machine named VM1. The solution must minimize the attack surface of VM1.

To complete this task, sign in to the Azure portal.

### **Task 2:**

You need to add the network interface of a virtual machine named VM1 to an application security group named ASG1.

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To complete this task, sign in to the Azure portal.

### **Task 3:**

You need to perform a full malware scan every Sunday at 02:00 on a virtual machine named VM1 by using Microsoft Antimalware for Virtual Machines.

### **Task 4:**

The developers at your company plan to create a web app named App10317806 and to publish the app to <https://www.contoso.com>.

You need to perform the following tasks:

- Ensure that App10317806 is registered to Azure Active Directory (Azure AD).
- Generate a password for App10317806.

### **Task 5:**

You need to prevent administrative users from accidentally deleting a virtual network named VNET1. The administrative users must be allowed to modify the settings of VNET1.

### **Task 6:**

You need to ensure that a user named user210317806 can manage the properties of the virtual machines in the RG1lod10317806 resource group. The solution must use the principle of least privilege.

### **Task 7:**

You need to ensure that only devices connected to a 131.107.0.0/16 subnet can access data in the railod10317806 Azure Storage account,

### **Task 8:**

You need to email an alert to a user named admin1@contoso.com if the average CPU usage of a virtual machine named VM1 is greater than 70 percent for a period of 15 minutes.

### **Task 9:**

You need to collect all the audit failure data from the security log of a virtual machine named VM1 to an Azure Storage account.

To complete this task, sign in to the Azure portal.

This task might take several minutes to complete. You can perform other tasks while the task completes.

### **Task 10:**

You need to prevent HTTP connections to the rg1lod10317806n1 Azure Storage account.

### **Task 11:**

You need to ensure that the rg1lod10317806n1 Azure Storage account is encrypted by using a key stored in the KeyVault10317806 Azure key vault.

### **Task 12:**

You need to create a new Azure Active Directory (Azure AD) directory named 10317806.onmicrosoft.com. The new directory must contain a user named user10317806.onmicrosoft.com who is configured to sign in by using Azure Multi-Factor Authentication (MFA).

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This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other question on this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next sections of the exam. After you begin a new section, you cannot return to this section.

### **To start the case study**

To display the first question on this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

### **Overview**

Contoso, Ltd. is a consulting company that has a main office in Montreal and two branch offices in Seattle and New York.

The company hosts its entire server infrastructure in Azure.

Contoso has two Azure subscriptions named Sub1 and Sub2. Both subscriptions are associated to an Azure Active Directory (Azure AD) tenant named contoso.com.

### **Technical requirements**

Contoso identifies the following technical requirements:

- Deploy Azure Firewall to VNetWork1 in Sub2.
- Register an application named App2 in contoso.com.
- Whenever possible, use the principle of least privilege.
- Enable Azure AD Privileged Identity Management (PIM) for contoso.com

### **Existing Environment**

#### **Azure AD**

Contoso.com contains the users shown in the following table.

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Name	City	Role
User1	Montreal	Global administrator
User2	MONTREAL	Security administrator
User3	London	Privileged role administrator
User4	Ontario	Application administrator
User5	Seattle	Cloud application administrator
User6	Seattle	User administrator
User7	Sydney	Reports reader
User8	Sydney	None

Contoso.com contains the security groups shown in the following table.

Name	Membership type	Dynamic membership rule
Group1	Dynamic user	user.city -contains "ON"
Group2	Dynamic user	user.city -match "*on"

**Sub1**

Sub1 contains six resource groups named RG1, RG2, RG3, RG4, RG5, and RG6.

User2 creates the virtual networks shown in the following table.

Name	Resource group
VNET1	RG1
VNET2	RG2
VNET3	RG3
VNET4	RG4

Sub1 contains the locks shown in the following table.

Name	Set on	Lock type
Lock1	RG1	Delete
Lock2	RG2	Read-only
Lock3	RG3	Delete
Lock4	RG3	Read-only

Sub1 contains the Azure policies shown in the following table.

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Policy definition	Resource type	Scope
Allowed resource types	networkSecurityGroups	RG4
Not allowed resource types	virtualNetworks/subnets	RG5
Not allowed resource types	networksSecurityGroups	RG5
Not allowed resource types	virtualNetworks/virtualNetworkPeerings	RG6

**Sub2**

Name	Subnet
VNetwork1	Subnet1.1, Subnet1.2 and Subent1.3
VNetwork2	Subnet2.1

Sub2 contains the virtual machines shown in the following table.

Name	Network interface	Application security group	Connected to
VM1	NIC1	ASG1	Subnet1.1
VM2	NIC2	ASG2	Subnet1.1
VM3	NIC3	None	Subnet1.2
VM4	NIC4	ASG1	Subnet1.3
VM5	NIC5	None	Subnet2.1

All virtual machines have the public IP addresses and the Web Server (IIS) role installed. The firewalls for each virtual machine allow ping requests and web requests.

Sub2 contains the network security groups (NSGs) shown in the following table.

Name	Associated to
NSG1	NIC2
NSG2	Subnet1.1
NSG3	Subnet1.3
NSG4	Subnet2.1

NSG1 has the inbound security rules shown in the following table.

Priority	Port	Protocol	Source	Destination	Action
65000	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	Any	Any	AzureLoadBalancer	Any	Allow
65500	Any	Any	Any	Any	Deny

NSG2 has the inbound security rules shown in the following table.