



AZ-800^{Q&As}

Administering Windows Server Hybrid Core Infrastructure

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QUESTION 1

You need to implement a name resolution solution that meets the networking requirements. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Create an Azure private DNS zone named corp.fabhkam.com.
- B. Create a virtual network link in the coip.fabnkam.com Azure private DNS zone.
- C. Create an Azure DNS zone named corp.fabrikam.com.
- D. Configure the DNS Servers settings for Vnet1.
- E. Enable autoregistration in the corp.fabnkam.com Azure private DNS zone.
- F. On DC3, install the DNS Server role.
- G. Configure a conditional forwarder on DC3.

Correct Answer: DF

Virtual machines in an Azure virtual network receive their DNS configuration from the DNS settings configured on the virtual network. You need to configure the Azure virtual network to use DC3 as the DNS server. Then all virtual machines in the virtual network will use DC3 and their DNS server.

QUESTION 2

You have an on-premises server named Server1 that runs Windows Server. Server1 contains an app named App1 and a firewall named Firewall1.

You have an Azure subscription.

Internal users connect to App1 by using WebSockets.

You need to make App1 available to users on the internet. The solution must minimize the number of inbound ports open on Firewall1.

What should you include in the solution?

- A. Microsoft Application Request Routing (ARR) Version 2
- B. Azure Application Gateway
- C. Azure Relay
- D. Web Application Proxy

Correct Answer: B



QUESTION 3

SIMULATION

You need to run a container that uses the `mcr.microsoft.com/windows/servercore/iis` image on SRV1. Port 80 on the container must be published to port 5001 on SRV1 and the container must run in the background.

To complete this task, sign in to the required computer or computers.

A. See explanation below.

B. Placeholder

C. Placeholder

D. Placeholder

Correct Answer: A

Pull a container base image

All containers are created from container images. Microsoft offers several starter images, called base images, to choose from. This procedure pulls (downloads and installs) the lightweight Nano Server base image.

Step 1:

Run a Windows container using Windows Admin Center

You can use Windows Admin Center to run your containers locally. Specifically, you use the Containers extension of your Windows Admin Center instance to run the containers. First, open the container host you want to manage, and in the

Tools pane, select the Containers extension. Then, select the Images tab inside the Container extension under Container Host.

The screenshot shows the Windows Admin Center interface for a container host named 'containerhost01'. The left sidebar shows the 'Tools' pane with 'Containers' selected. The main area is divided into 'Containers' and 'Images' sections. The 'Images' section shows a table of container images.

Repository	Tag	Image ID	Created At	Size
vinibeerwd	v1	sha256:0d9c2a43ad4ed52bdf...	9/21/2020, 11:35:21 PM	8.46GB
mcr.microsoft.com/dotnet/fra...	4.8-windowsservercore-ltsc2019	sha256:4d714b4a56ded3e9e5...	9/8/2020, 6:12:29 PM	8.37GB
mcr.microsoft.com/windows/s...	windowsservercore-ltsc2019	sha256:3c78bd4dd781bf532fb...	9/8/2020, 6:02:22 PM	5.26GB
mcr.microsoft.com/windows/s...	ltsc2019	sha256:715aaeac112db874e1b...	9/3/2020, 5:59:01 AM	5.06GB
viniaptestregistry.azurecr.io/vin...	v1	sha256:10eb7bf69100ca9879b...	6/21/2020, 11:00:48 PM	5.51GB



Step 2:

If your host doesn't have a base container image, select the Pull option to open the Pull Container Image settings:



Pull Container Image

PREVIEW ⓘ

Detail which image you would like to pull.

Repository* ⓘ

mcr.microsoft.com/windows/servercore

Tag ⓘ

ltsc2019

☐

Pull all tagged images in the repository.

> Registry authentication

✓ Common Windows images

✓ mcr.microsoft.com/windows/servercore

☒ ltsc2019

☐ 1809

☐ 1903

☐ 1909

☐ 2004

> mcr.microsoft.com/dotnet/framework/aspnet

> mcr.microsoft.com/windows/servercore/iis

> mcr.microsoft.com/windows/nanoserver

Pull

Cancel

Step 3:



In the Pull Container Image settings, provide the image URL and the tag. If you aren't certain which image to pull, Windows Admin Center provides a list of common images from Microsoft. You can also provide the credentials to pull an image

from a private repository. Once you fill out the necessary information, click Pull. Windows Admin Center will start the pull process on the container host. After the download is complete, you should see the new image on the Images tab.



Run image

PREVIEW ⓘ

Specify how to run:

mcr.microsoft.com/windows/servercore/iis:windowsservercore-ltsc2019

Container Name ⓘ

☐ Use Hyper-V isolation ⓘ

Publish Port(s) ⓘ

☐ Publish All Ports ⓘ

Memory allocation ⓘ

CPU count ⓘ

Click 'Add' to add additional Docker Run Options ⓘ

[+](#) Add

Click the following link to [learn more about Docker run](#)

Run

Cancel



On the Run menu, set up the configuration for the container, such as the container name, the isolation type, which ports to publish, and memory and CPU allocation.

Step 4: In Publish port(s) enter: 80:5001

We need to specify the port.

Note: Publish or expose port (-p, --expose)

```
docker run -p 127.0.0.1:80:8080/tcp ubuntu bash
```

This binds port 8080 of the container to TCP port 80 on 127.0.0.1 of the host machine.

Step 5: Click \\Add\\ to add additional options.

Step 6: Type: -d

Note: Run in detached mode

This is great so far, but your sample application is a web server and you shouldn't have to have your terminal connected to the container. Docker can run your container in detached mode in the background. To do this, you can use the -detach or -d for short. Docker will start your container the same as before but this time will detach from the container and return you to the terminal prompt.

```
docker run -d -p 8080:8080 docker-gs-ping
```

```
d75e61fcad1e0c0eca69a3f767be6ba28a66625ce4dc42201a8a323e8313c14e
```

Docker started your container in the background and printed the container ID on the terminal.

Step 7: Click Run

Once you have finished the configuration for the container, click Run. You can see the status of the running containers on the Containers tab:

The screenshot shows the Windows Admin Center interface for a container host named 'containerhost01'. The 'Containers' tab is active, displaying a table of running containers. The table has columns for Name, Image, Status, Port config..., CMD, ID, Created, CPU percent..., Memory us..., and Size. One container named 'mycontainer' is listed, using the 'mcr.microsoft...' image, with status 'Up About a ...', port '0.0.0.0:8080-...', and ID 'f8fe9e41c23...'. The interface also includes a left-hand navigation pane with various system tools and a 'Details' section at the bottom.

Name	Image	Status	Port config...	CMD	ID	Created	CPU percent...	Memory us...	Size
mycontainer	mcr.microsoft...	Up About a ...	0.0.0.0:8080-...	[]	f8fe9e41c23...	12/23/2020, ...	0.00%	62.38MiB	0B



Reference: <https://learn.microsoft.com/en-us/virtualization/windowscontainers/quick-start/run-your-first-container>
<https://docs.docker.com/engine/reference/commandline/run/>

QUESTION 4

You have a server that runs Windows Server and has the DHCP Server role installed. The server has a scope named Scope1 that has the following configurations:

1.

Address range: 192.168.0.2 to 192. 168.1.254

2.

Mask: 255.255.254.0

3.

Router: 192.168.0.1

4.

Lease duration: 3 days

5.

DNS server: 172.16.0.254

You have 50 Microsoft Teams Phone devices from the same vendor. All the devices have MAC addresses within the same range.

You need to ensure that all the Teams Phone devices that receive a lease from Scope1 have IP addresses in the range of 192.168.1.100 to 192.168.1.200. The solution must NOT affect other DHCP clients that receive IP configurations from

Scope1.

What should you create?

A. a scope

B. a filter

C. scope options

D. a policy

Correct Answer: D

Reference: [https://docs.microsoft.com/en-us/previous-versions/windows/it-pro/windows-server-2012-R2-and-2012/dn425040\(v=ws.11\)](https://docs.microsoft.com/en-us/previous-versions/windows/it-pro/windows-server-2012-R2-and-2012/dn425040(v=ws.11))

QUESTION 5



HOTSPOT

Your on-premises network contains a server named Server1 and uses an IP address space of 192.168.10.0/24.

You have an Azure virtual network that contains a subnet named Subnet1. Subnet1 uses an IP address space of 192.168.10.0/24.

You need to migrate Server1 to Subnet1. You must use Azure Extended Network to maintain the existing IP address of Server1.

What is the minimum number of virtual machines that you should deploy? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point

Hot Area:

Virtual machines that run Windows Server 2022 Azure Edition:

0
1
2

Virtual machines that run Windows Server 2019 or Windows Server 2022:

0
1
2

Correct Answer:



Virtual machines that run Windows Server 2022 Azure Edition:

0
1
2

Virtual machines that run Windows Server 2019 or Windows Server 2022:

0
1
2

Box 1: 1 Configuration in Azure Before you use Windows Admin Center, you must perform the following steps through the Azure Portal:

1.

Create a Virtual network in Azure that contains at least two subnets, in addition to subnets required for your gateway connection. One of the subnets you create must use the same subnet CIDR as the on-premises subnet you want to extend. The subnet must be unique within your routing domain so that it does not overlap with any on-premises subnets.

2.

Configure a virtual network gateway to use a site-to-site or ExpressRoute connection to connect the virtual network to your on-premises network.

3.

Create a Windows Server 2022 Azure Edition VM in Azure that is capable of running nested virtualization. This is one of your two virtual appliances. Connect the primary network interface to the routable subnet, and the second network interface to the extended subnet.

Note: Extended network for Azure requires Windows Server 2022 Azure Edition for the VM that is running in Azure.

4.

Etc.

Box 2: 1 On-premises configuration You must also perform some manual configuration in your on-premises infrastructure, including creating a VM to serve as the on-premises virtual appliance:

1.



Make sure the subnets are available on the physical machine where you will deploy the on-premises VM (virtual appliance). This includes the subnet you want to extend and a second subnet that is unique and doesn't overlap with any subnets in the Azure virtual network.

2.

Create a Windows Server 2019 or 2022 VM on any hypervisor that supports nested virtualization. This is the on-premises virtual appliance. We recommend that you create this as a highly available VM in a cluster. Connect a virtual network adapter to the routable subnet and a second virtual network adapter to the extended subnet.

3.

Etc.

Note: Azure using extended network for Azure

Extended network for Azure enables you to stretch an on-premises subnet into Azure to let on-premises virtual machines keep their original on-premises private IP addresses when migrating to Azure.

The network is extended using a bidirectional VXLAN tunnel between two Windows Server 2019 VMs acting as virtual appliances, one running on-premises and the other running in Azure, each also connected to the subnet to be extended.

Each subnet that you are going to extend requires one pair of appliances. Multiple subnets can be extended using multiple pairs

Reference: <https://learn.microsoft.com/en-us/windows-server/manage/windows-admin-center/azure/azure-extended-network>

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