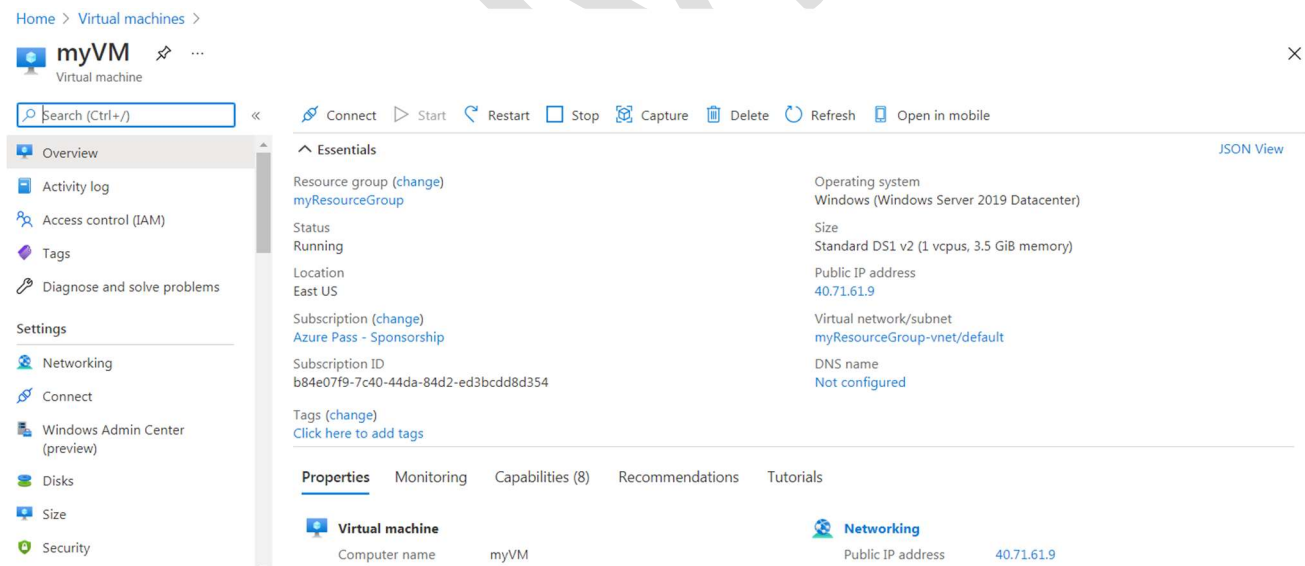
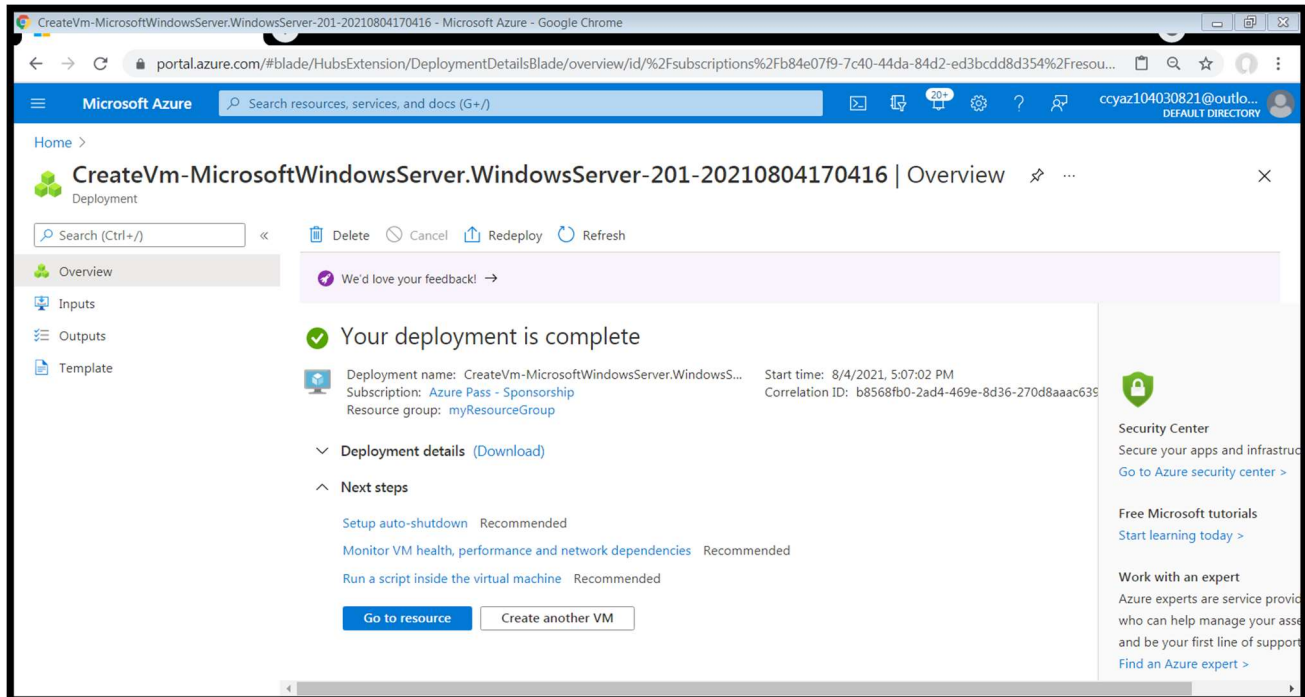


SAMPLE SOLUTION ONLY. DO NOT COPY!!

SAMPLE SOLUTION ONLY. DO NOT COPY!!

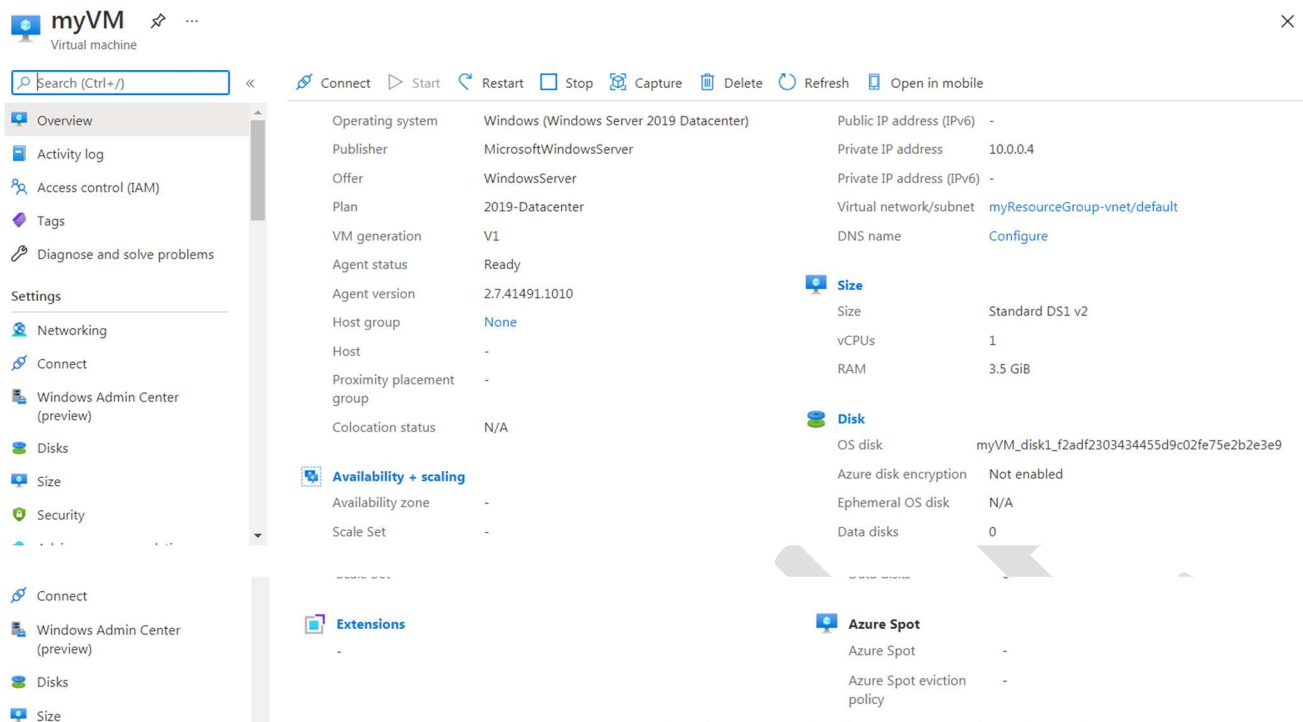
Practice - Create a Windows Virtual Machine

Create virtual machine

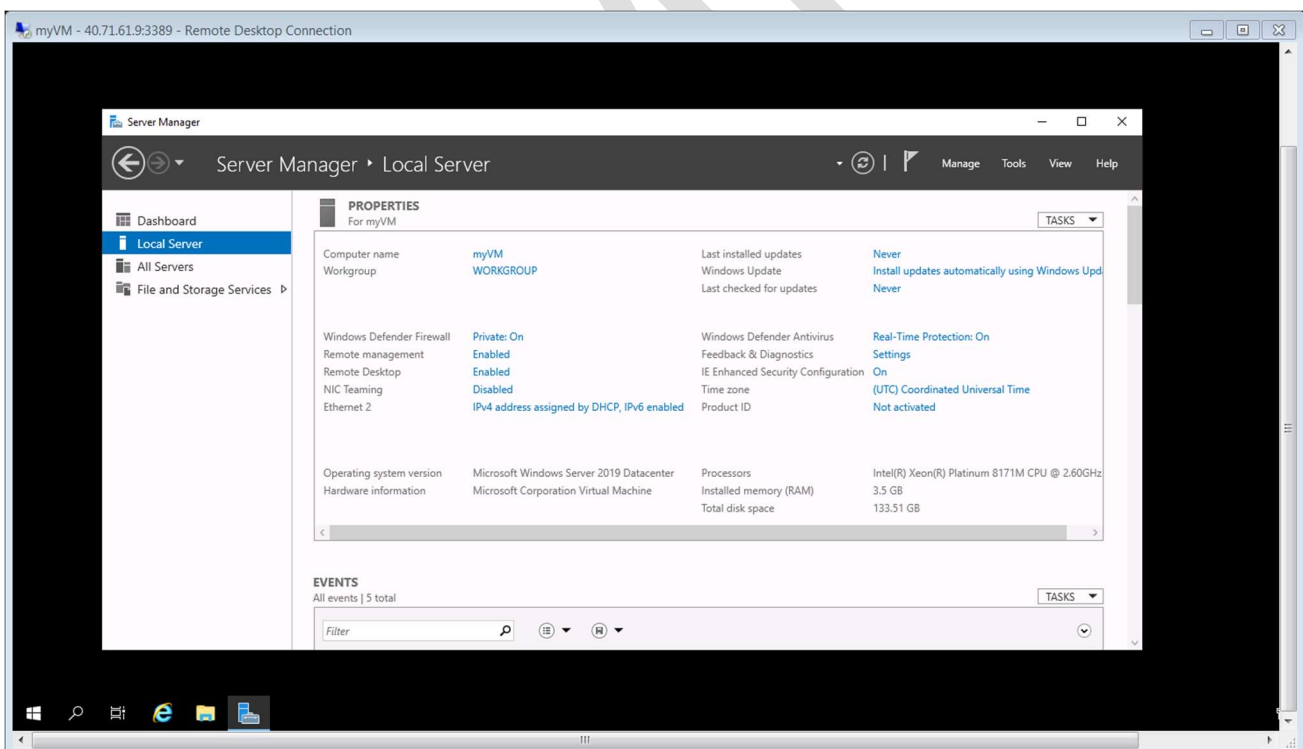


SAMPLE SOLUTION ONLY. DO NOT COPY!!

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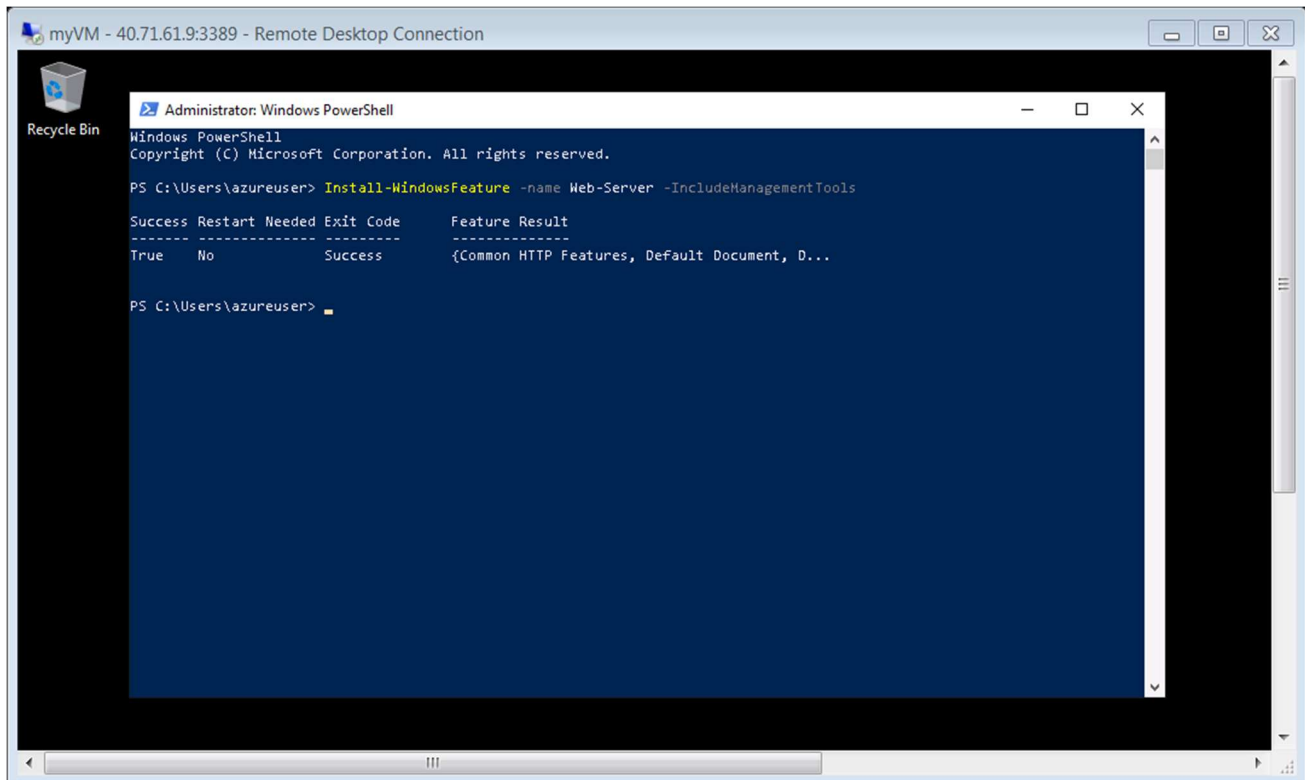
Connect to virtual machine



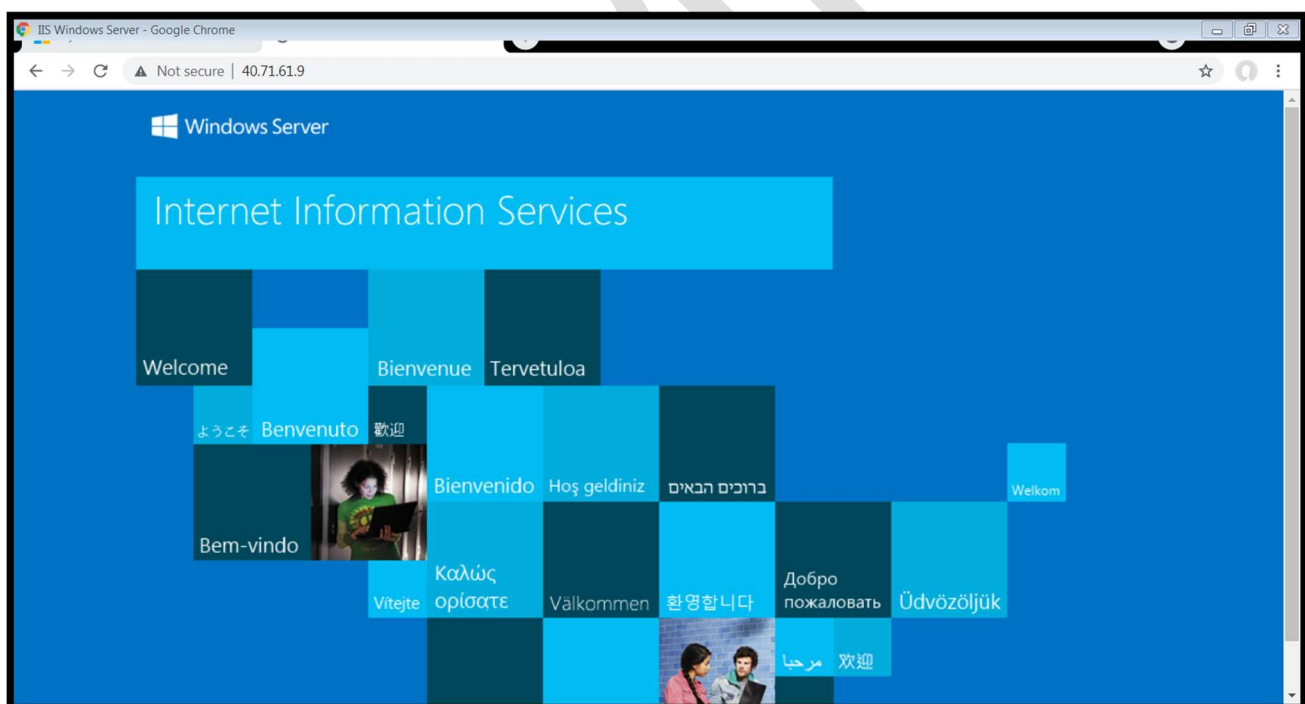
Install web server

SAMPLE SOLUTION ONLY. DO NOT COPY!!

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View the IIS welcome page

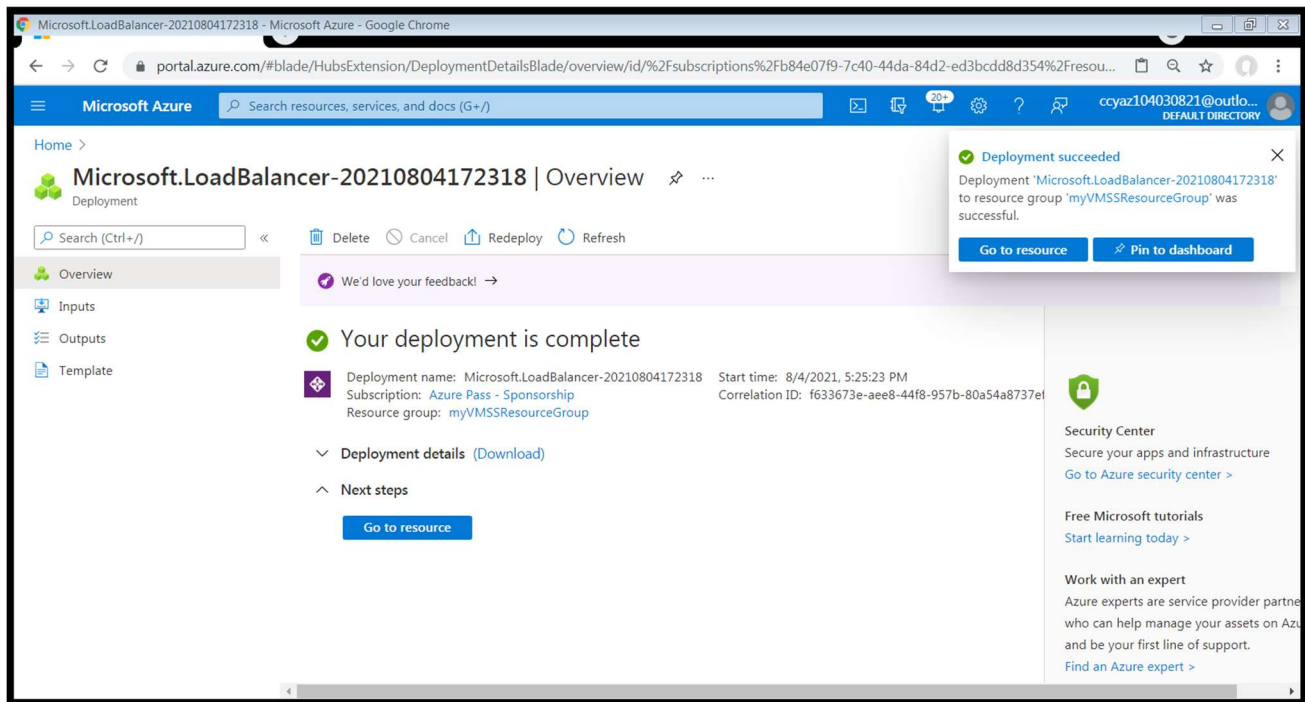


SAMPLE SOLUTION ONLY. DO NOT COPY!!

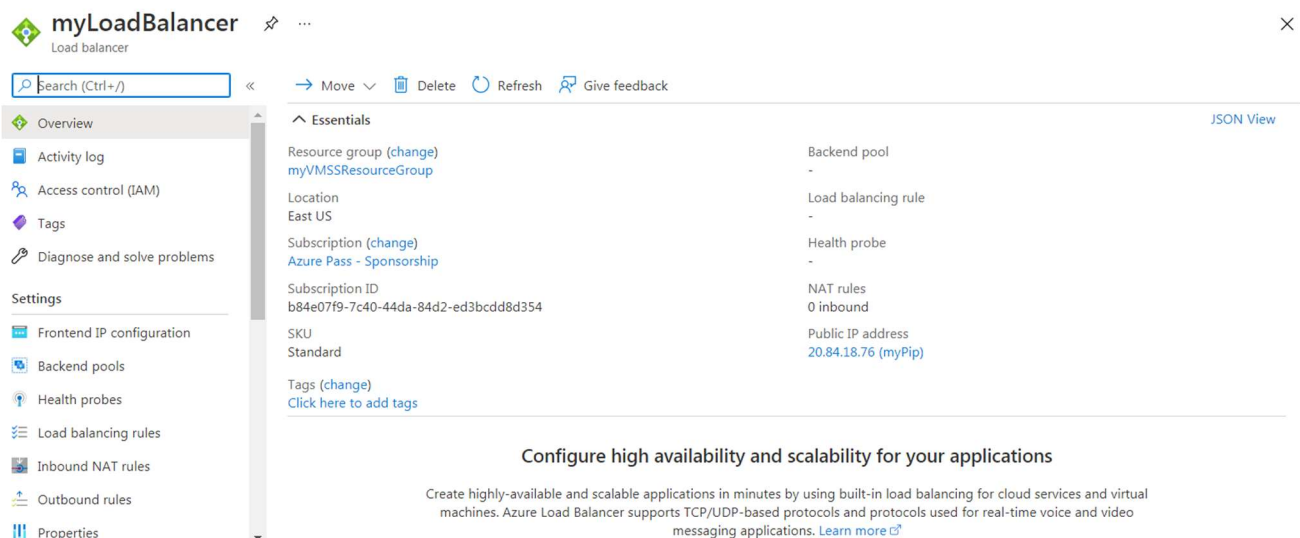
SAMPLE SOLUTION ONLY. DO NOT COPY!!

Practice - Scale Sets

Create a load balancer

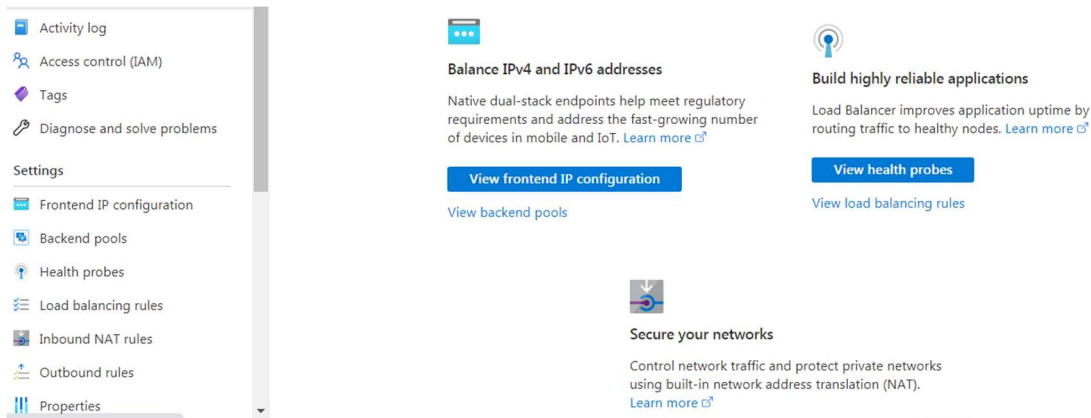


Home > Load balancing - help me choose (Preview) >

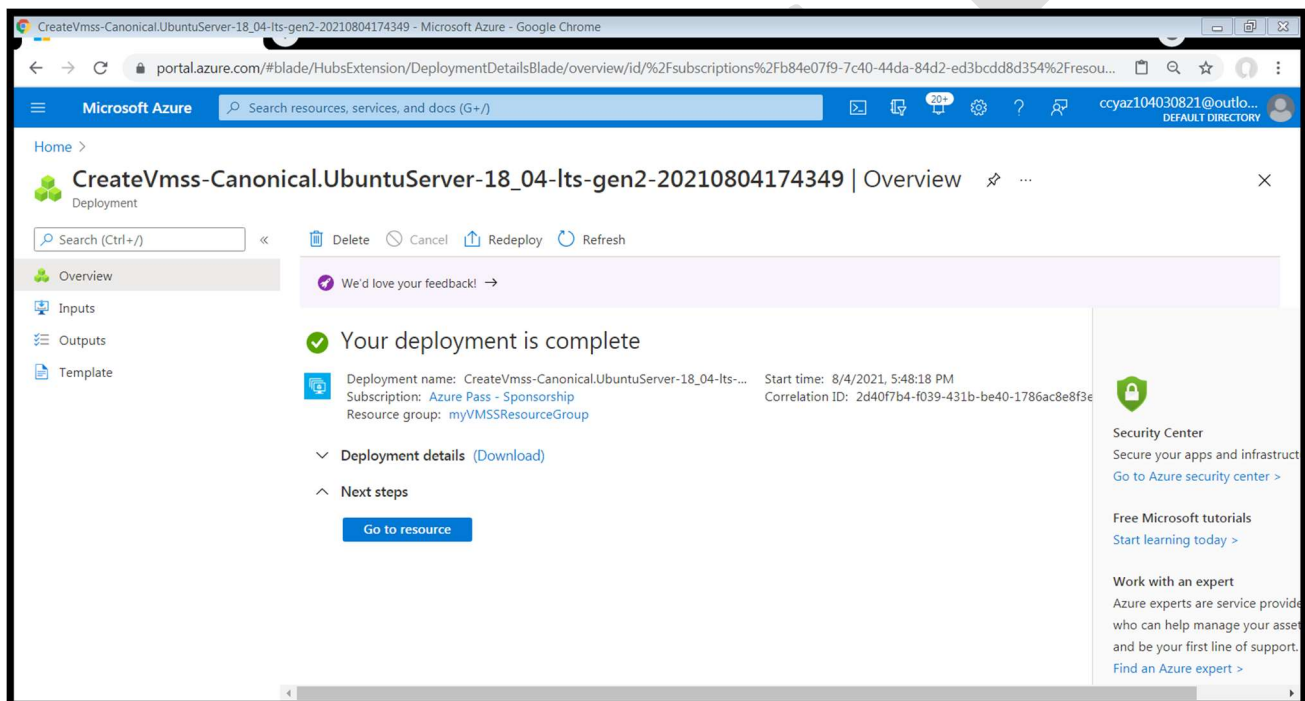


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Create virtual machine scale set



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SAMPLE SOLUTION ONLY. DO NOT COPY!!

Home > CreateVmss-Canonical.UbuntuServer-18_04-lts-gen2-20210804174349 >

myScaleSet Virtual machine scale set

Search (Ctrl+/) Move Start Restart Stop Delete Refresh

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Instances
- Networking
- Scaling
- Disks
- Operating system
- Security

Essentials

Resource group (change) myVMSSResourceGroup

Status 2 out of 2 succeeded

Location East US

Subscription (change) Azure Pass - Sponsorship

Subscription ID b84e07f9-7c40-44da-84d2-ed3bcd8d354

Tags (change) Click here to add tags

Operating system Linux

Size Standard_DS1_v2 (2 instances)

Public IP address 20.84.18.76

Public IP address (IPv6) -

Virtual network/subnet myVMSSResourceGroup-vnet/default

Orchestration mode Uniform

JSON View

Properties Monitoring Capabilities (6) Recommendations Tutorials

myScaleSet Virtual machine scale set

Search (Ctrl+/) Move Start Restart Stop Delete Refresh

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Instances
- Networking
- Scaling
- Disks
- Operating system
- Security
- Guest + host updates

Virtual machine profile

Operating system	Linux
Publisher	Canonical
Offer	UbuntuServer
Plan	18_04-lts-gen2

Availability + scaling

Availability zone	-
Proximity placement group	-
Colocation status	-
Host group	-
Instance count	2
Scaling	Manual
Scale-In policy	Default
Overprovisioning	Enabled

Networking

Public IP address	20.84.18.76
Public IP address (IPv6)	-
Virtual network/subnet	myVMSSResourceGroup-vnet/default

Size

Size	Standard_DS1_v2
vCPUs	1
RAM	3.5 GiB

Disk

OS disk	Premium SSD LRS
Ultra disk compatibility	Disabled
Data disks	0
Managed disks	Enabled
Ephemeral OS disk	N/A

myScaleSet Virtual machine scale set

Search (Ctrl+/) Move Start Restart Stop Delete Refresh

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Instances
- Networking
- Scaling
- Disks
- Operating system
- Security
- Guest + host updates

Fault domain count 5

Single placement group Not enabled

Management

Upgrade policy	Manual
Boot diagnostics	Enabled
System assigned identity	Not enabled
Automatic OS upgrades	Not enabled
Termination notifications	Not enabled
Termination delay	-

Health and repair

Health monitoring	Not enabled
Health monitor	-
Automatic repairs	Not enabled
Grace period	-

Azure Spot

Azure Spot	Disabled
------------	----------

Extensions

-

SAMPLE SOLUTION ONLY. DO NOT COPY!!

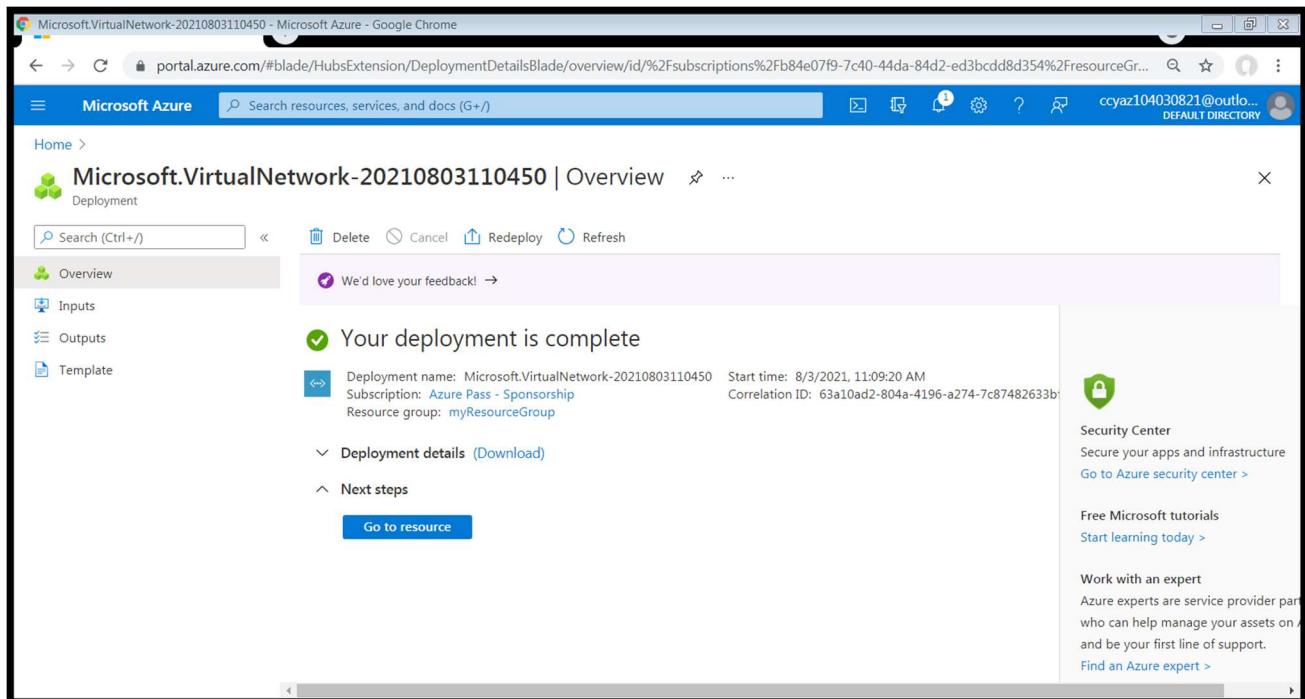
SAMPLE SOLUTION ONLY. DO NOT COPY!!

SAMPLE

SAMPLE SOLUTION ONLY. DO NOT COPY!!

SAMPLE SOLUTION ONLY. DO NOT COPY!!

Practice – Virtual Networks



The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The main content area displays the 'Overview' page for a deployment named 'Microsoft.VirtualNetwork-20210803110450'. The deployment status is 'Complete', indicated by a green checkmark. The deployment details show the name, subscription, resource group, start time, and correlation ID. A 'Go to resource' button is visible. The left sidebar contains navigation links for Overview, Inputs, Outputs, and Template. The right sidebar includes links to Security Center, Free Microsoft tutorials, and Work with an expert.

Microsoft.VirtualNetwork-20210803110450 | Overview

Deployment

Search (Ctrl+/)

Delete Cancel Redeploy Refresh

We'd love your feedback! →

Your deployment is complete

Deployment name: Microsoft.VirtualNetwork-20210803110450 Start time: 8/3/2021, 11:09:20 AM
Subscription: Azure Pass - Sponsorship Correlation ID: 63a10ad2-804a-4196-a274-7c87482633b1
Resource group: myResourceGroup

Deployment details (Download)

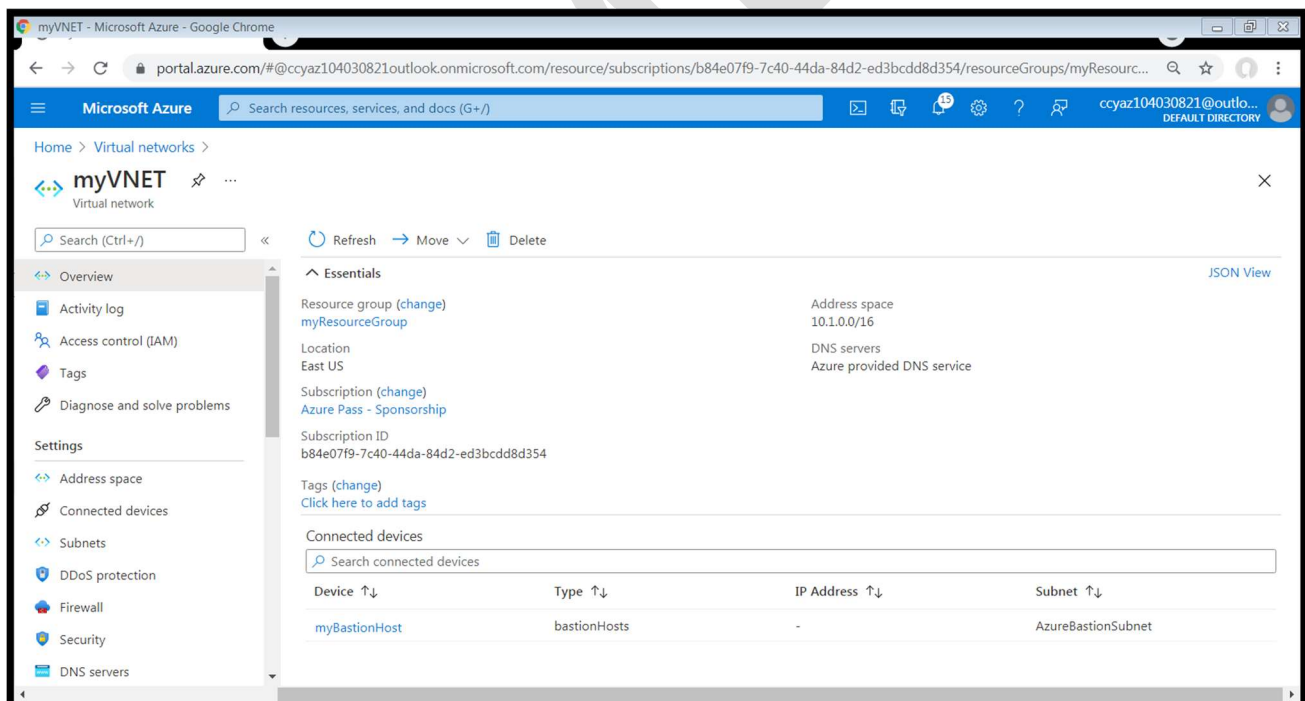
Next steps

Go to resource

Security Center
Secure your apps and infrastructure
[Go to Azure security center >](#)

Free Microsoft tutorials
[Start learning today >](#)

Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
[Find an Azure expert >](#)



The screenshot shows the Microsoft Azure portal interface for a Virtual Network named 'myVNET'. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Address space, Connected devices, Subnets, DDoS protection, Firewall, Security, and DNS servers. The main content area displays the 'Essentials' section, which includes the resource group, location, subscription, and address space. A table lists the connected devices, including 'myBastionHost'.

myVNET
Virtual network

Search (Ctrl+/)

Refresh Move Delete

JSON View

Resource group (change)
myResourceGroup

Address space
10.1.0.0/16

Location
East US

DNS servers
Azure provided DNS service

Subscription (change)
Azure Pass - Sponsorship

Subscription ID
b84e07f9-7c40-44da-84d2-ed3bccd8d354

Tags (change)
[Click here to add tags](#)

Connected devices

Search connected devices

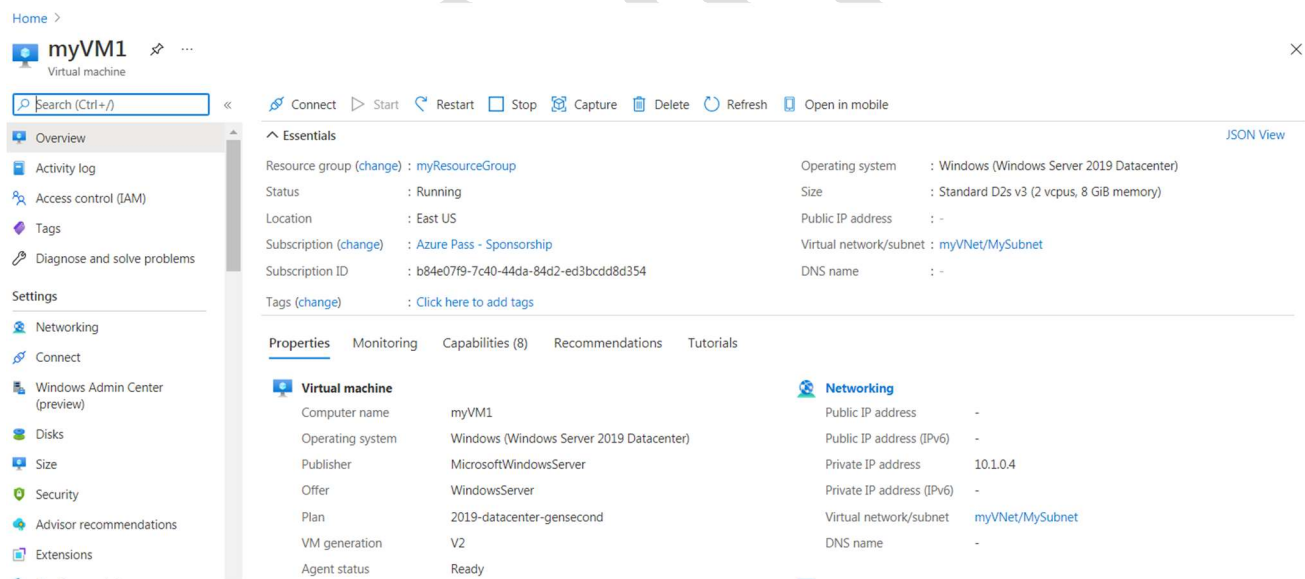
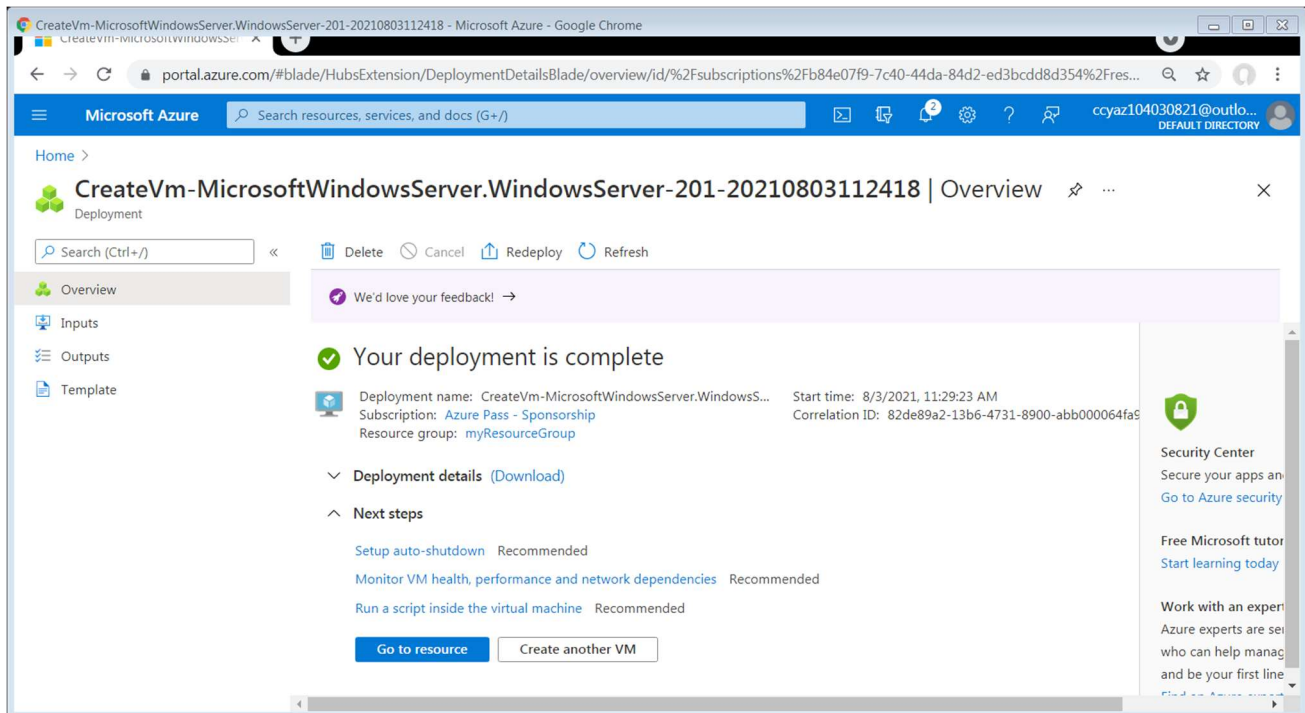
Device ↑↓	Type ↑↓	IP Address ↑↓	Subnet ↑↓
myBastionHost	bastionHosts	-	AzureBastionSubnet

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Create virtual machines

Create the first VM



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The screenshot displays the configuration details for an Azure VM. On the left is a navigation pane with links to Tags, Diagnose and solve problems, Settings, Networking, Connect, Windows Admin Center (preview), Disks, Size, Security, and Advisor recommendations. The main content area is divided into three sections: Agent version (2.7.41491.1010), Host group (None), and Host (-). Below these are Availability + scaling (Availability zone: -, Scale Set: -) and Extensions (-). On the right, the Size section shows Standard D2s v3 with 2 vCPUs and 8 GiB RAM. The Disk section shows OS disk (myVM1_disk1_326297490ed44f1d9b3f665be713c4e0), Azure disk encryption (Not enabled), Ephemeral OS disk (N/A), and Data disks (0). The Azure Spot section shows Azure Spot (-) and Azure Spot eviction policy (-).

Create the second VM

The screenshot shows the Azure portal interface for a deployment. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information (ccyaz104030821@outlo...). The main content area is titled 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210803113123 | Overview'. Below the title is a search bar and a row of action buttons: Delete, Cancel, Redeploy, and Refresh. A message states 'We'd love your feedback!'. A green checkmark icon indicates 'Your deployment is complete'. Below this, deployment details are listed: Deployment name (CreateVm-MicrosoftWindowsServer.WindowsS...), Subscription (Azure Pass - Sponsorship), and Resource group (myResourceGroup). The start time is 8/3/2021, 11:33:59 AM, and the correlation ID is 1e0e23f4-e133-43bc-a125-f4b54954d1a0. Under 'Deployment details', there is a link to download details. Under 'Next steps', there are three recommended actions: Setup auto-shutdown, Monitor VM health, performance and network dependencies, and Run a script inside the virtual machine. At the bottom, there are two buttons: 'Go to resource' and 'Create another VM'. On the right side, there are security and learning recommendations.

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Home > myVM2 Virtual machine

Search (Ctrl+/) Connect Start Restart Stop Capture Delete Refresh Open in mobile

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Networking
- Connect
- Windows Admin Center (preview)
- Disks
- Size
- Security
- Advisor recommendations
- Extensions
- Continuous delivery

Tags

- Diagnose and solve problems

Settings

- Networking
- Connect
- Windows Admin Center (preview)
- Disks
- Size
- Security
- Advisor recommendations

Essentials

Resource group (change) : myResourceGroup

Status : Unknown

Location : East US

Subscription (change) : Azure Pass - Sponsorship

Subscription ID : b84e07f9-7c40-44da-84d2-ed3bccdd8d354

Tags (change) : [Click here to add tags](#)

Operating system : Windows

Size : Standard D2s v3 (2 vcpus, 8 GiB memory)

Public IP address : -

Virtual network/subnet : myVNet/MySubnet

DNS name : -

JSON View

Properties

Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name	myVM2
Operating system	Windows
Publisher	MicrosoftWindowsServer
Offer	WindowsServer
Plan	2019-datacenter-gensecond
VM generation	V2
Agent status	Ready

Networking

Public IP address	-
Public IP address (IPv6)	-
Private IP address	10.1.0.5
Private IP address (IPv6)	-
Virtual network/subnet	myVNet/MySubnet
DNS name	-

Size

Size	Standard D2s v3
vCPUs	2
RAM	8 GiB

Disk

OS disk	myVM2_disk1_9c75622e5dc04faf926fb68ef9ad620e
Azure disk encryption	Not enabled
Ephemeral OS disk	N/A
Data disks	0

Azure Spot

Azure Spot	-
Azure Spot eviction policy	-

Availability + scaling

Availability zone	-
Scale Set	-

Extensions

-	-
---	---

Agent version 2.7.41491.1010

Host group None

Host -

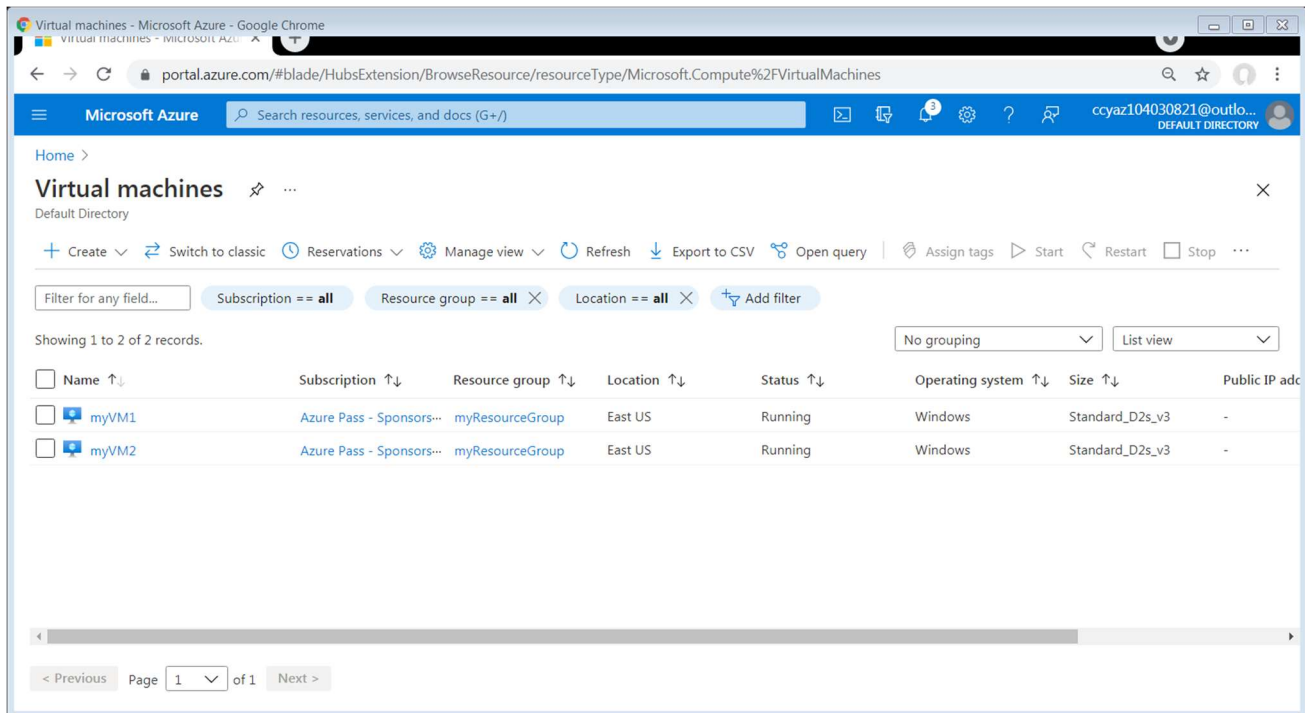
Proximity placement group -

Colocation status N/A

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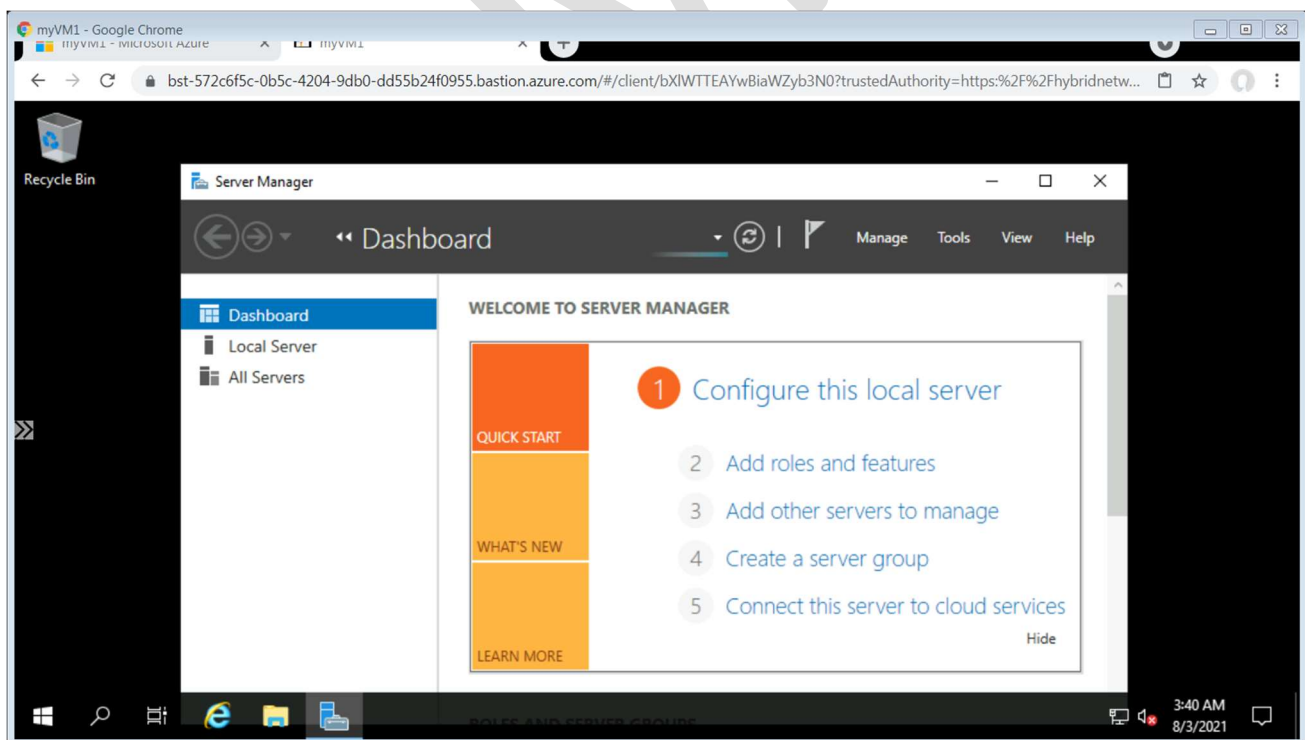
SAMPLE SOLUTION ONLY. DO NOT COPY!!

Connect to myVM1



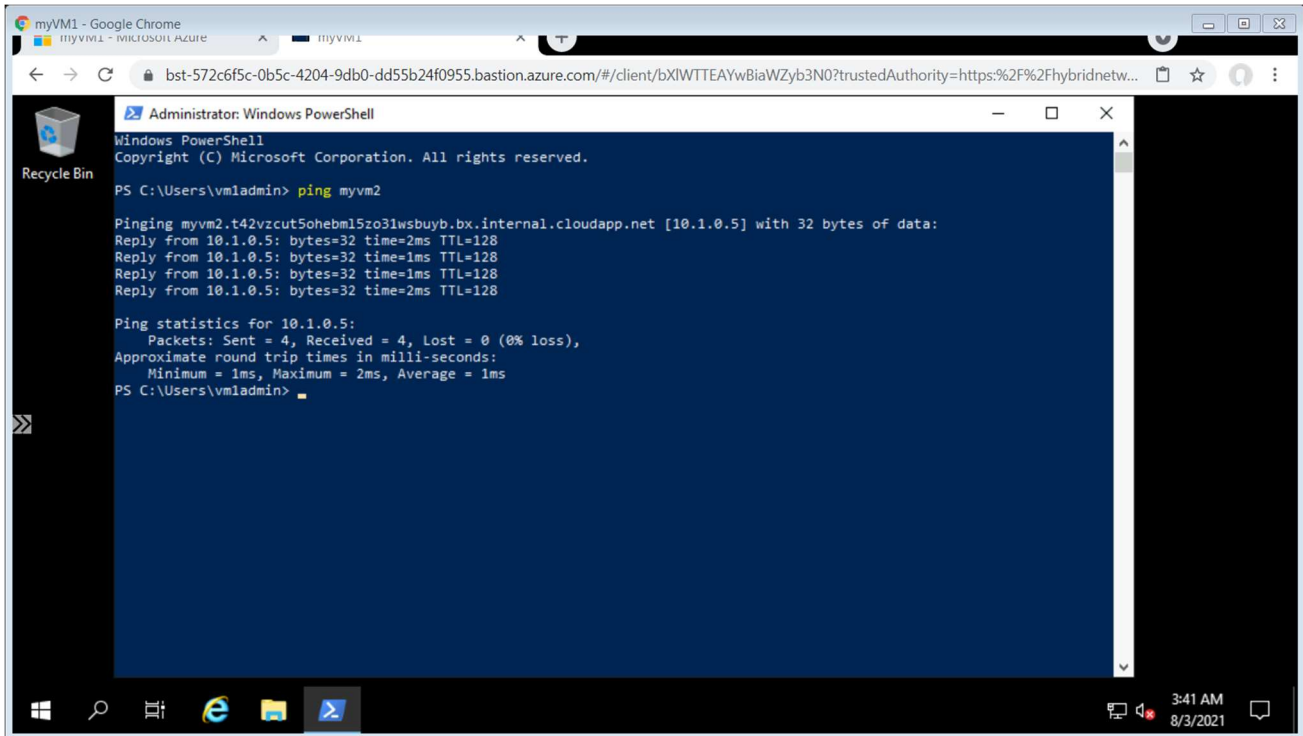
Communicate between VMs

myVM1:

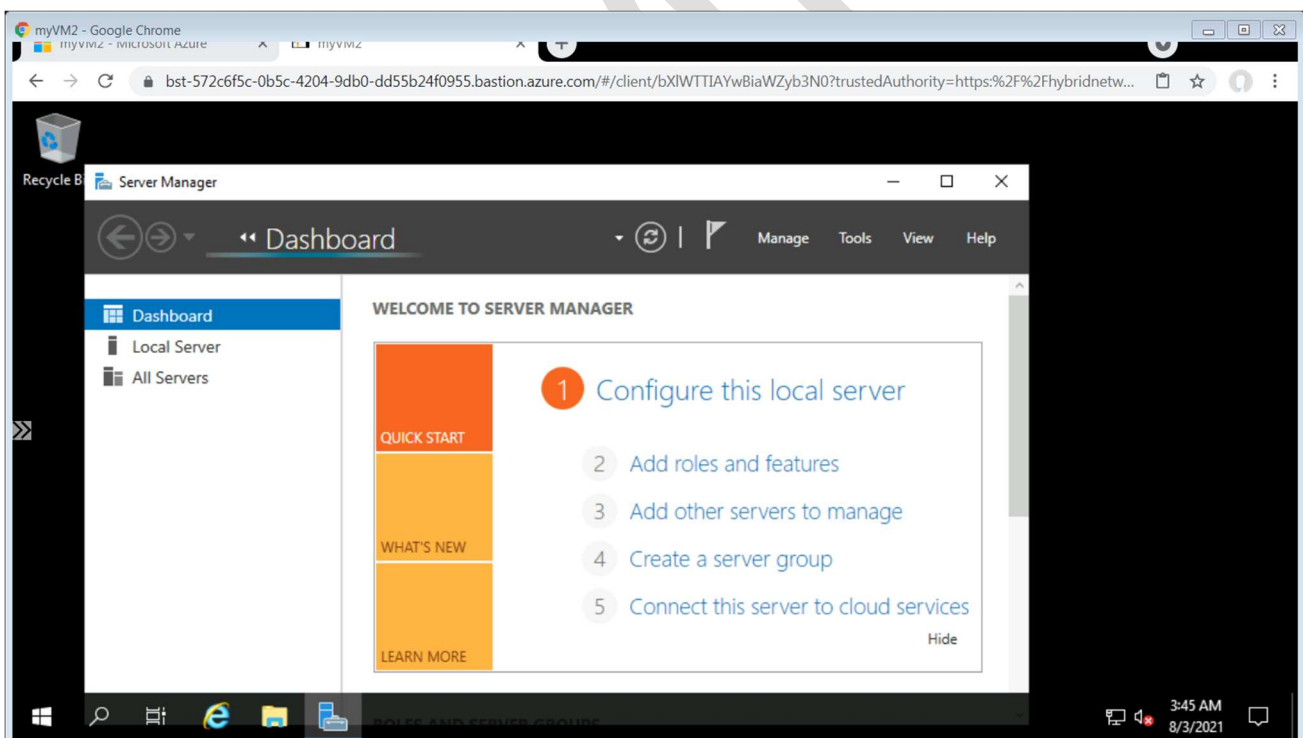


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SAMPLE SOLUTION ONLY. DO NOT COPY!!

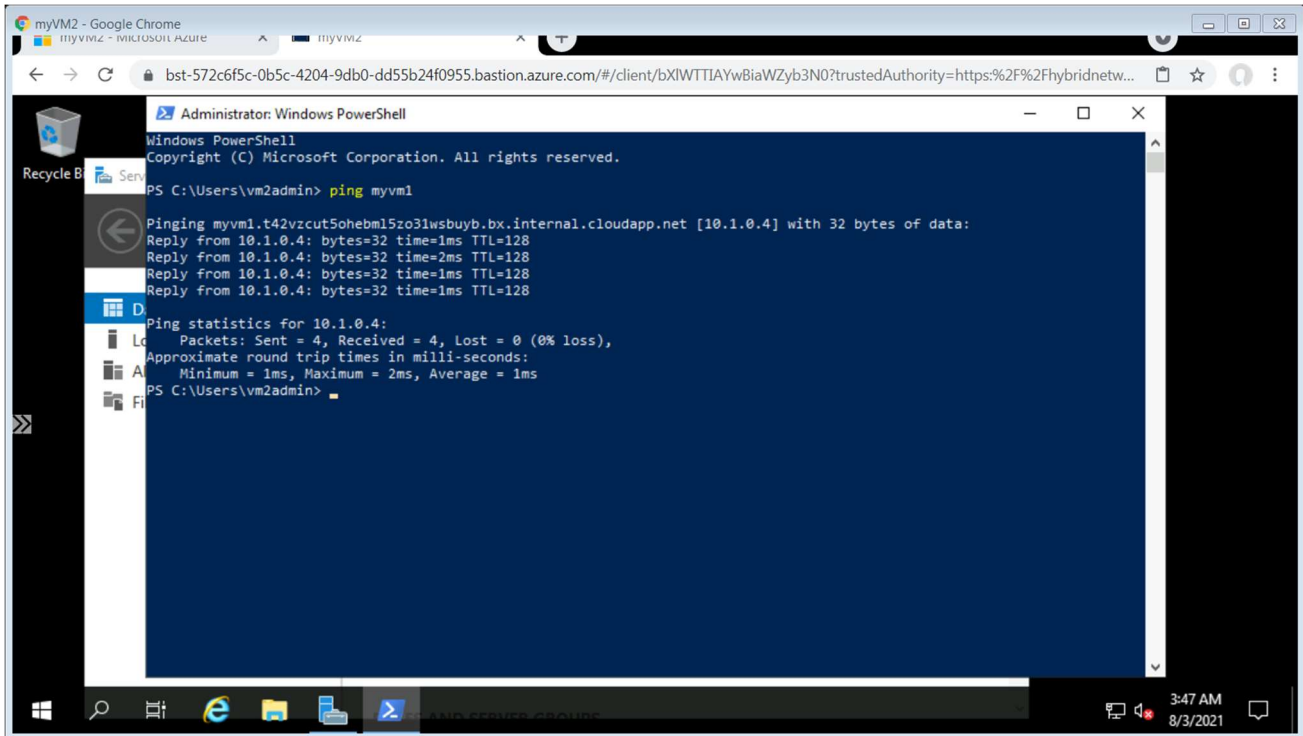


myVM2:



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The screenshot shows a Windows PowerShell terminal window titled "Administrator: Windows PowerShell". The window is open on a desktop environment. The command prompt shows the user running the command `ping myvm1`. The output displays four successful replies from 10.1.0.4 with varying times and TTL values. Below the replies, the ping statistics are shown, indicating 4 packets sent, 4 received, and 0% loss. The system clock in the bottom right corner shows 3:47 AM on 8/3/2021.

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\vm2admin> ping myvm1

Pinging myvm1.t42vzcut5ohebm15zo3lwsbuyb.bx.internal.cloudapp.net [10.1.0.4] with 32 bytes of data:
Reply from 10.1.0.4: bytes=32 time=1ms TTL=128
Reply from 10.1.0.4: bytes=32 time=2ms TTL=128
Reply from 10.1.0.4: bytes=32 time=1ms TTL=128
Reply from 10.1.0.4: bytes=32 time=1ms TTL=128

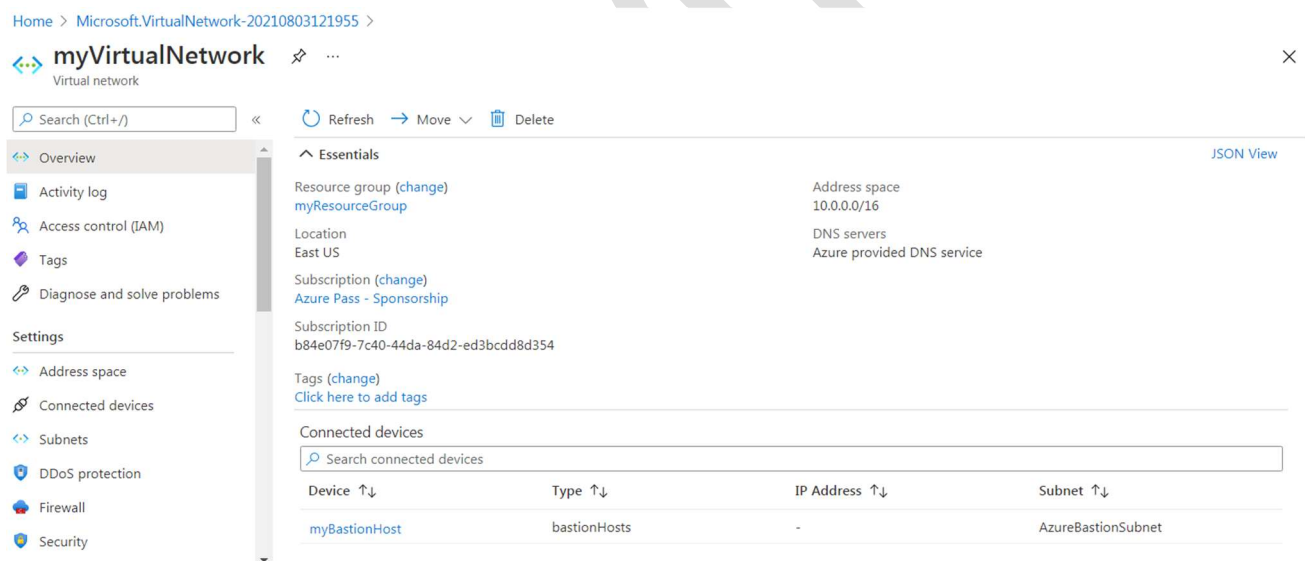
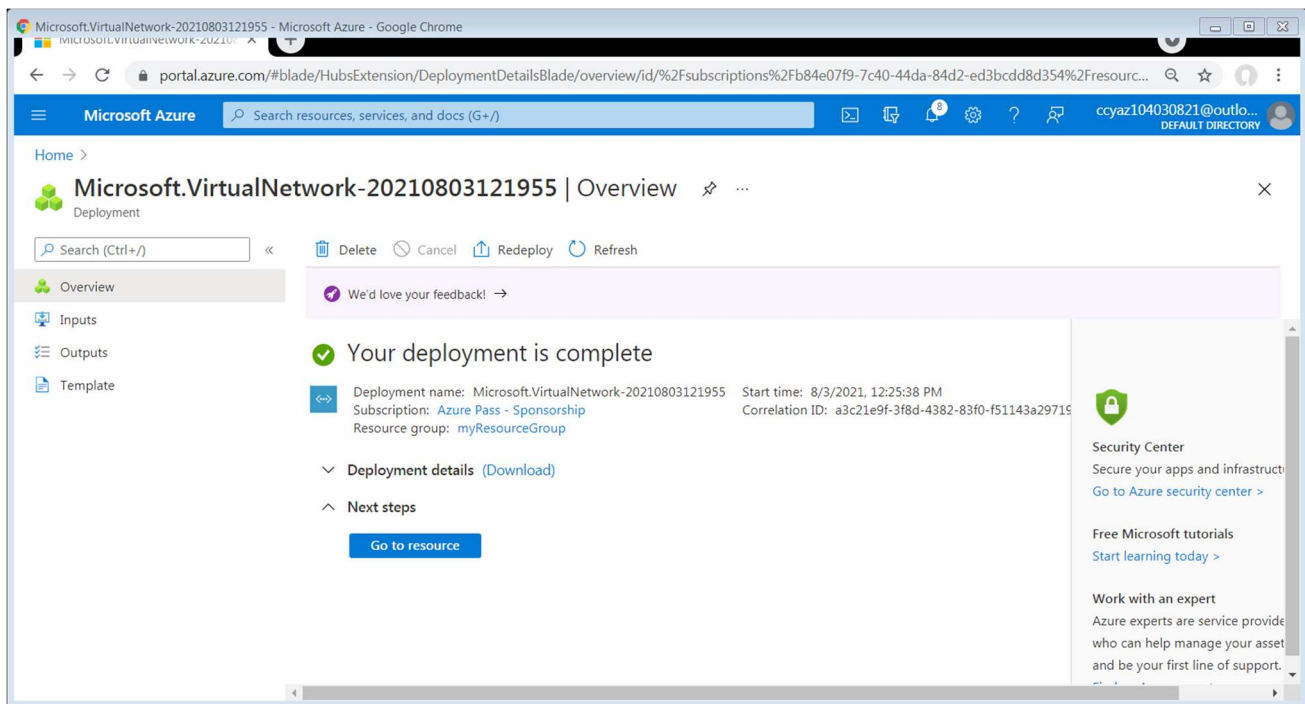
Ping statistics for 10.1.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms
PS C:\Users\vm2admin>
```

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Practice - Routing

Create a virtual network



Create an NVA

SAMPLE SOLUTION ONLY. DO NOT COPY!!

Microsoft Azure

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210803123853 | Overview

Deployment

Search (Ctrl+/)

Delete Cancel Redeploy Refresh

We'd love your feedback! →

✓ Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsS... Start time: 8/3/2021, 12:42:02 PM
Subscription: Azure Pass - Sponsorship Correlation ID: d3677e7a-b8b9-417b-b4c8-cca8c2add88
Resource group: myResourceGroup

Deployment details (Download)

Next steps

Setup auto-shutdown Recommended
Monitor VM health, performance and network dependencies Recommended
Run a script inside the virtual machine Recommended

Go to resource Create another VM

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210803123853 > myVMNVA

Virtual machine

Search (Ctrl+/)

Connect Start Restart Stop Capture Delete Refresh Open in mobile

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center (preview)

Disks

Size

Security

Advisor recommendations

Extensions

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center (preview)

Disks

Size

Security

Advisor recommendations

Essentials

Resource group (change) : myResourceGroup

Status : Running

Location : East US

Subscription (change) : Azure Pass - Sponsorship

Subscription ID : b84e07f9-7c40-44da-84d2-ed3bcd8d354

Tags (change) : Click here to add tags

Operating system : Windows

Size : Standard D2s v3 (2 vcpus, 8 GiB memory)

Public IP address : -

Virtual network/subnet : myVirtualNetwork/DMZ

DNS name : -

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name : myVMNVA

Operating system : Windows

Publisher : MicrosoftWindowsServer

Offer : WindowsServer

Plan : 2019-datacenter-gensecond

VM generation : V2

Agent status : Not Ready

Agent version : Unknown

Host group : None

Host : -

Proximity placement group : -

Colocation status : N/A

Availability + scaling

Availability zone : -

Scale Set : -

Extensions

Networking

Public IP address : -

Public IP address (IPv6) : -

Private IP address : 10.0.2.4

Private IP address (IPv6) : -

Virtual network/subnet : myVirtualNetwork/DMZ

DNS name : -

Size

Size : Standard D2s v3

vCPUs : 2

RAM : 8 GiB

Disk

OS disk : myVMNVA_disk1_e2152f2ae4494a40a7584ea923c25adf

Azure disk encryption : Not enabled

Ephemeral OS disk : N/A

Data disks : 0

Azure Spot

Azure Spot : -

Azure Spot eviction policy : -

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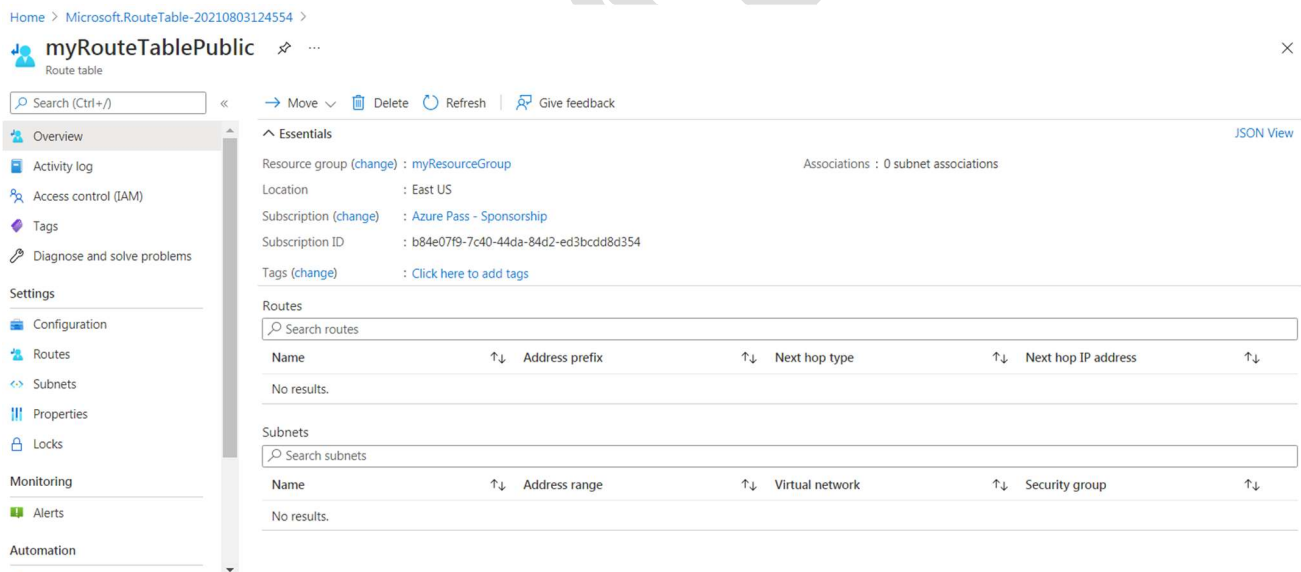
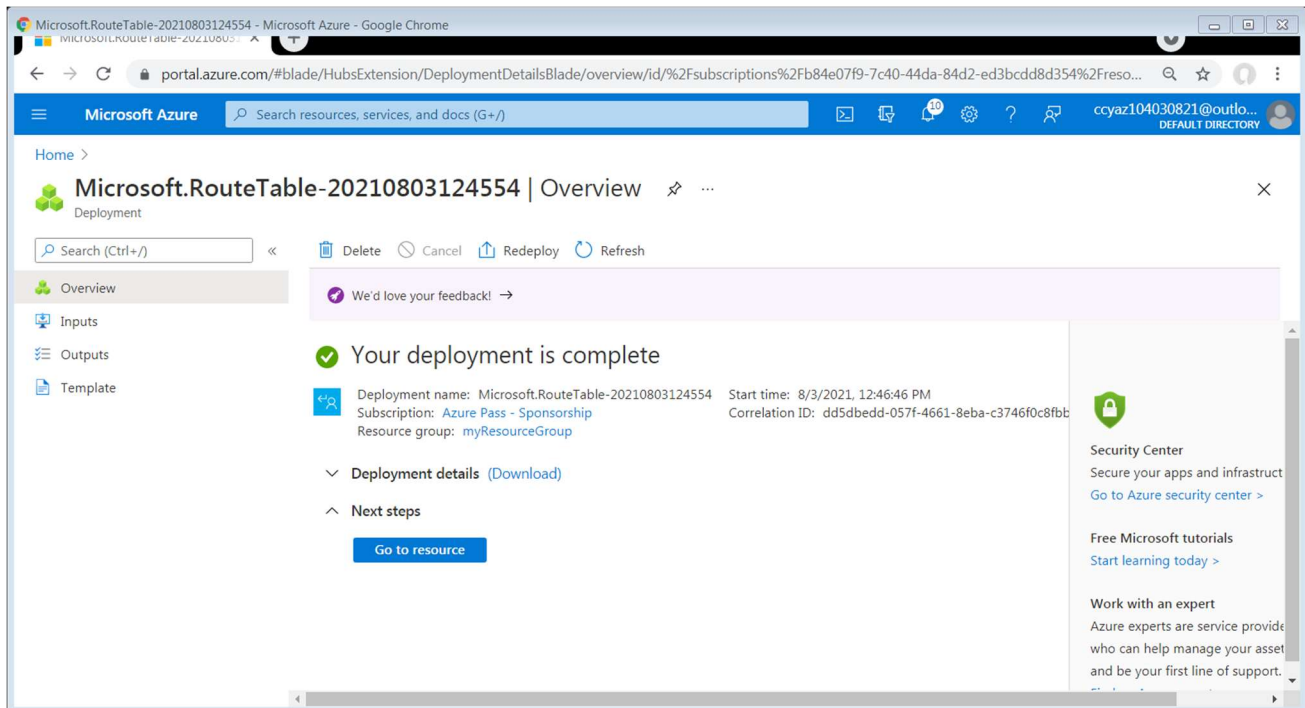
SAMPLE SOLUTION ONLY. DO NOT COPY!!

SAMPLE

SAMPLE SOLUTION ONLY. DO NOT COPY!!

SAMPLE SOLUTION ONLY. DO NOT COPY!!

Create a route table



Create a route

SAMPLE SOLUTION ONLY. DO NOT COPY!!

Home > myRouteTablePublic

myRouteTablePublic | Routes

Route table

Search (Ctrl+ /)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

+ Add

Search routes

Name	Address prefix	Next hop type	Next hop IP address
ToPrivateSubnet	10.0.1.0/24	Virtual appliance	10.0.2.4

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Associate a route table to a subnet

The screenshot shows the 'Subnets' page for a virtual network named 'myVirtualNetwork'. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Address space, Connected devices, Subnets, DDoS protection, Firewall, Security, and DNS servers. The 'Subnets' section is currently selected. The main area displays a table of subnets with columns: Name, IPv4, IPv6, Available IPs, and Delegated. The table lists four subnets: Private, DMZ, AzureBastionSubnet, and Public.

Name	IPv4	IPv6	Available IPs	Delegated
Private	10.0.1.0/24	-	251	-
DMZ	10.0.2.0/24	-	250	-
AzureBastionSubnet	10.0.3.0/24	-	248	-
Public	10.0.0.0/24	-	251	-

Turn on IP forwarding

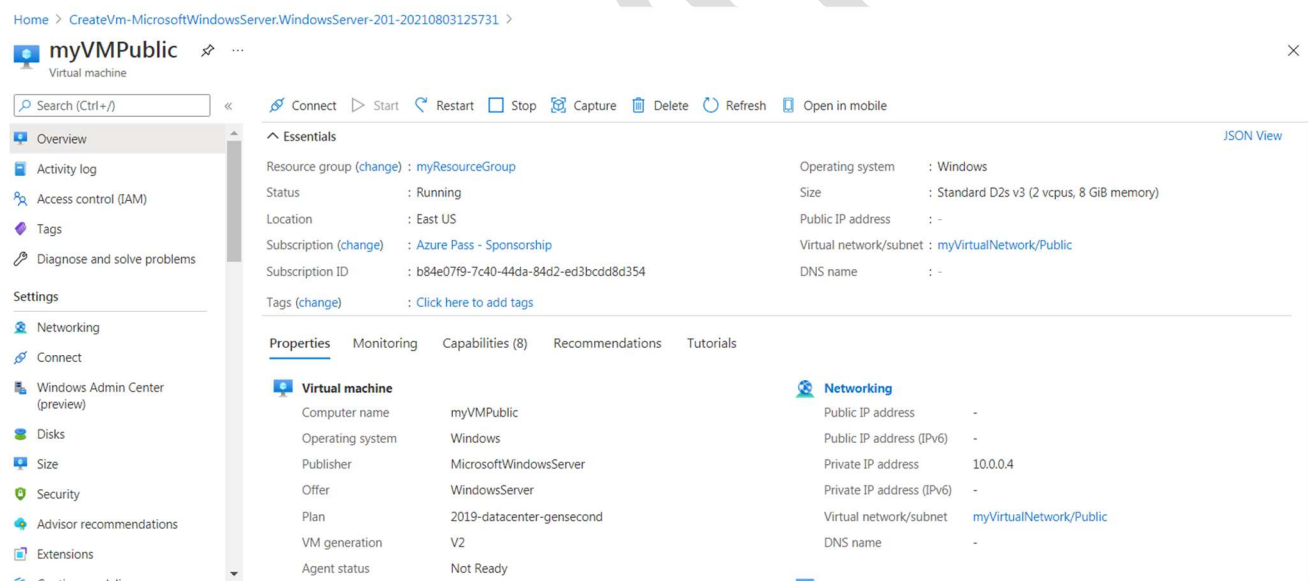
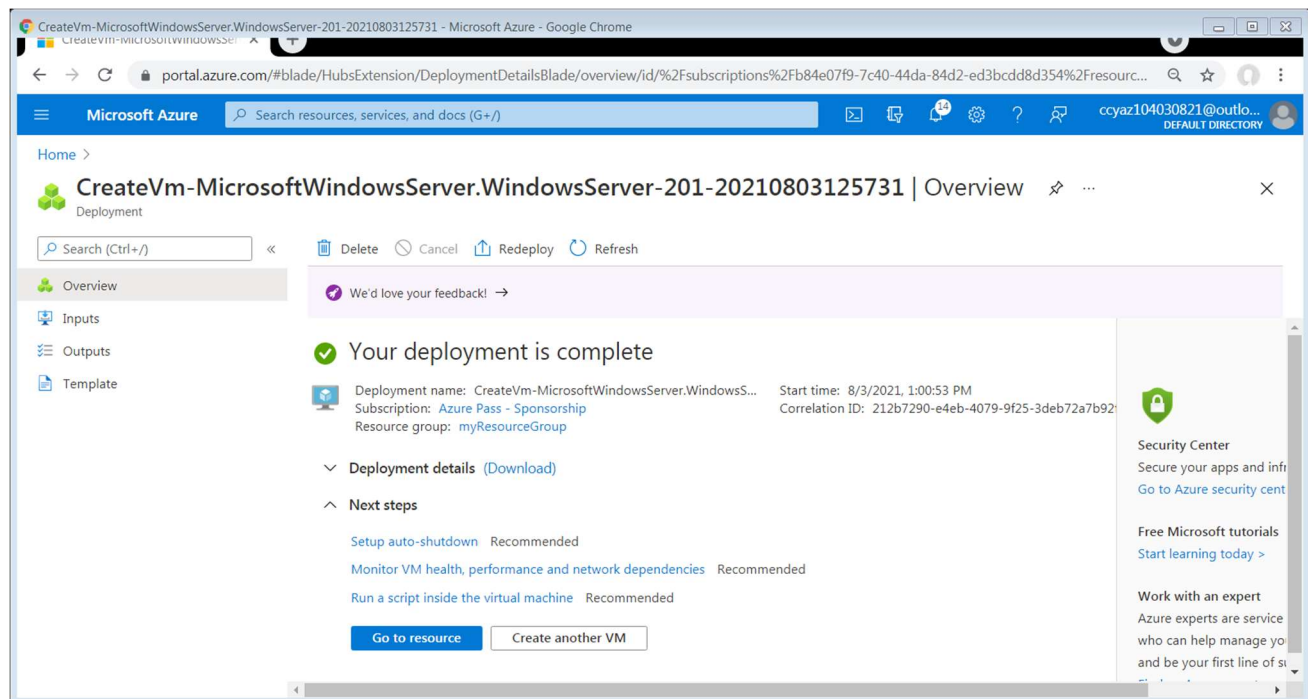
The screenshot shows the 'IP configurations' page for a network interface named 'myvmnva878'. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Settings, IP configurations, DNS servers, Network security group, Properties, Locks, Monitoring, Alerts, and Metrics. The 'IP configurations' section is currently selected. The main area displays the 'IP forwarding settings' with a toggle switch set to 'Enabled'. Below this, the 'Virtual network' is set to 'myVirtualNetwork' and the 'Subnet' is set to 'DMZ (10.0.2.0/24)'. A table lists the IP configurations for the network interface.

Name	IP Version	Type	Private IP address	Public IP address
ipconfig1	IPv4	Primary	10.0.2.4 (Dynamic)	-

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Create public and private virtual machines

Public VM



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Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center (preview)

Disks

Size

Security

Advisor recommendations

Agent versionUnknown

Host groupNone

Host-

Proximity placement group-

Colocation statusN/A

Availability + scaling

Availability zone-

Scale Set-

Extensions-

Size

SizeStandard D2s v3

vCPUs2

RAM8 GiB

Disk

OS diskmyVMPublic_disk1_6fe78cdf7f4e4824b62658ab969aa8fe

Azure disk encryptionNot enabled

Ephemeral OS diskN/A

Data disks0

Azure Spot

Azure Spot-

Azure Spot eviction policy-

SAMPLE SOLUTION ONLY. DO NOT COPY!!

Private VM

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210803130347 | Overview

Deployment

Search (Ctrl+/) Delete Cancel Redeploy Refresh

We'd love your feedback! →

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsS... Start time: 8/3/2021, 1:06:02 PM
Subscription: Azure Pass - Sponsorship Correlation ID: 82ae3c46-fad2-4ec3-8831-788878d5af1d
Resource group: myResourceGroup

Deployment details (Download)

Next steps

Setup auto-shutdown Recommended
Monitor VM health, performance and network dependencies Recommended
Run a script inside the virtual machine Recommended

Go to resource Create another VM

Security Center
Secure your apps and infrastru...
Go to Azure security center >

Free Microsoft tutorials
Start learning today >

Work with an expert
Azure experts are service provid...
who can help manage your asset...
and be your first line of support...
Find an Azure expert >

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210803130347 > myVMPrivate

Virtual machine

Search (Ctrl+/) Connect Start Restart Stop Capture Delete Refresh Open in mobile

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center (preview)

Disks

Size

Security

Advisor recommendations

Extensions

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center (preview)

Disks

Size

Security

Advisor recommendations

Essentials

Resource group (change): myResourceGroup

Status: Running

Location: East US

Subscription (change): Azure Pass - Sponsorship

Subscription ID: b84e07f9-7c40-44da-84d2-ed3bccd8d354

Tags (change): Click here to add tags

Operating system: Windows (Windows Server 2019 Datacenter)

Size: Standard D2s v3 (2 vcpus, 8 GiB memory)

Public IP address: -

Virtual network/subnet: myVirtualNetwork/Private

DNS name: -

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name: myVMPrivate

Operating system: Windows (Windows Server 2019 Datacenter)

Publisher: MicrosoftWindowsServer

Offer: WindowsServer

Plan: 2019-datacenter-gensecond

VM generation: V2

Agent status: Ready

Agent version: 2.7.41491.1010

Host group: None

Host: -

Proximity placement group: -

Colocation status: N/A

Availability + scaling

Availability zone: -

Scale Set: -

Extensions

Networking

Public IP address: -

Public IP address (IPv6): -

Private IP address: 10.0.1.4

Private IP address (IPv6): -

Virtual network/subnet: myVirtualNetwork/Private

DNS name: -

Size

Size: Standard D2s v3

vCPUs: 2

RAM: 8 GiB

Disk

OS disk: myVMPrivate_disk1_542a3a4b01bf40248ba6ffa17b9e8655

Azure disk encryption: Not enabled

Ephemeral OS disk: N/A

Data disks: 0

Azure Spot

Azure Spot: -

Azure Spot eviction policy: -

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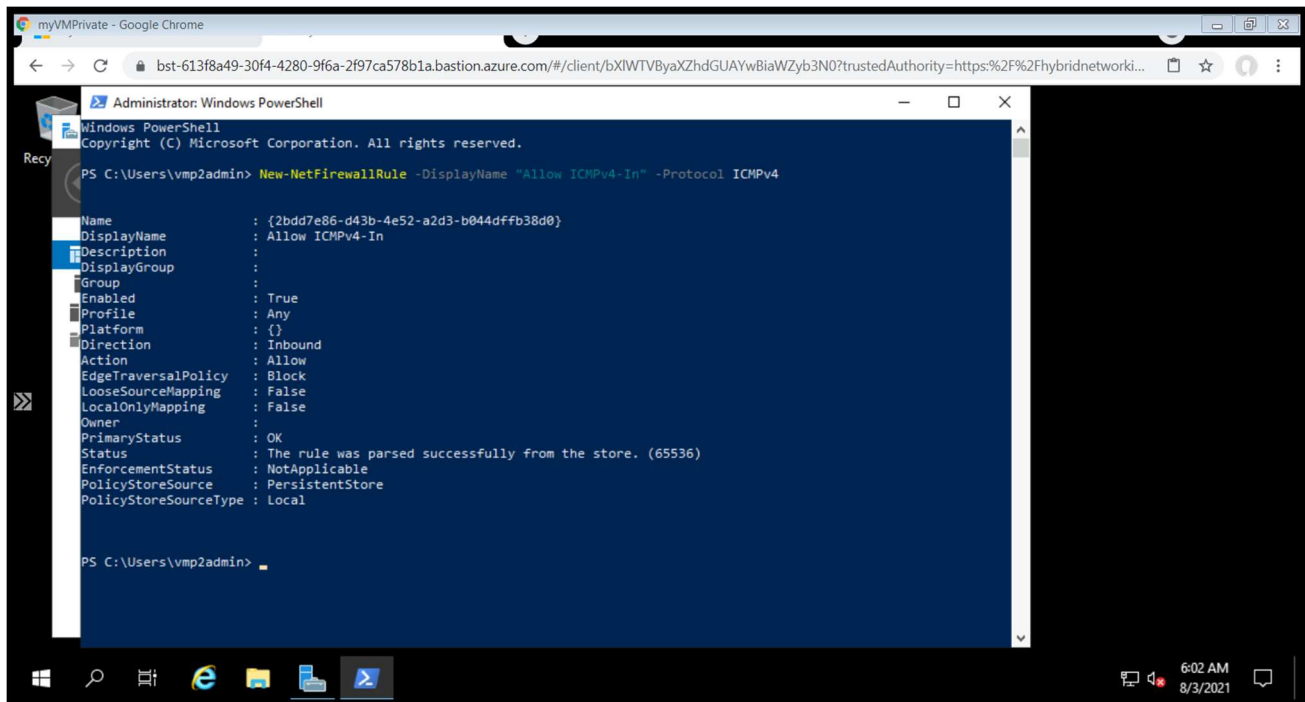
SAMPLE

SAMPLE SOLUTION ONLY. DO NOT COPY!!

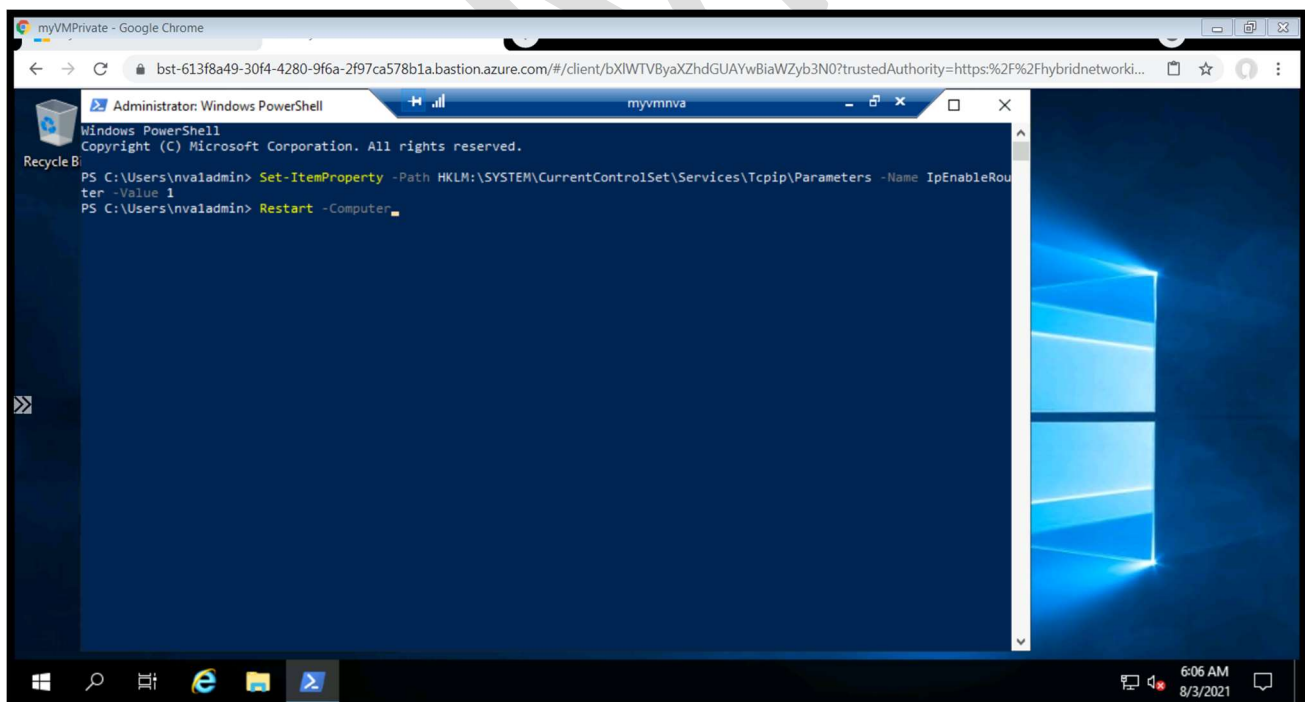
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Route traffic through an NVA

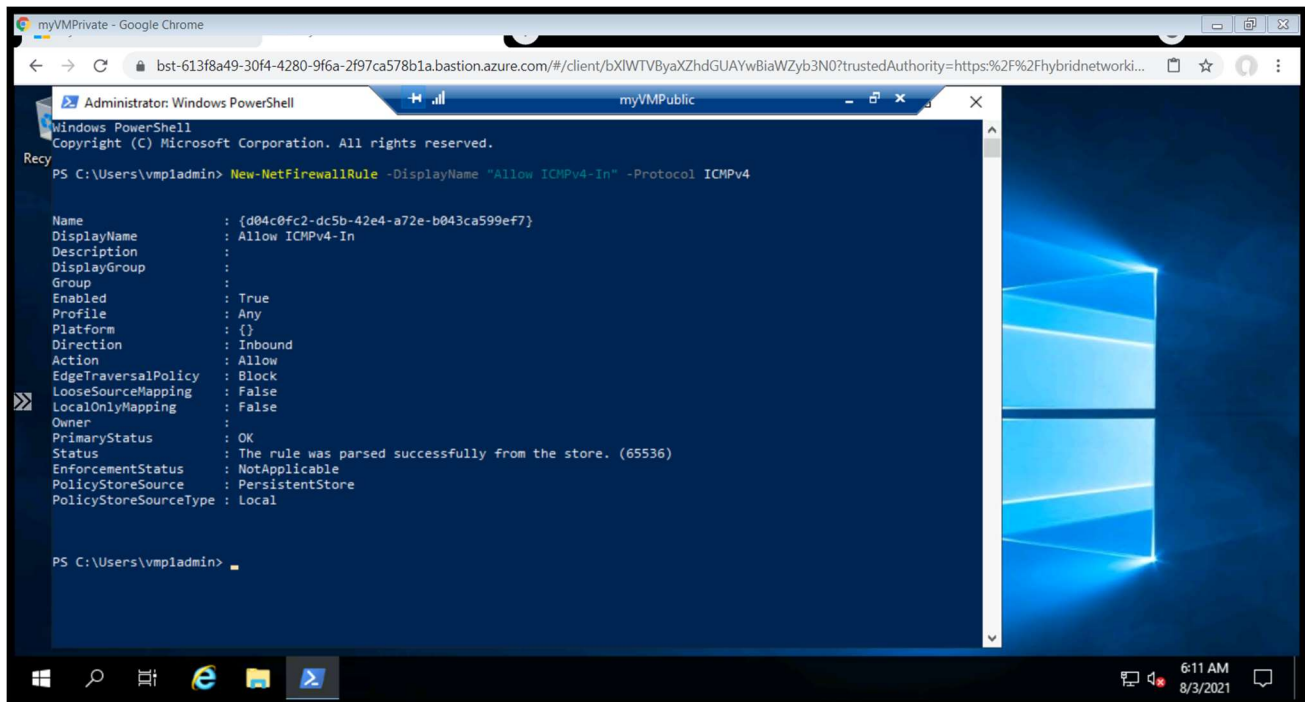
Configure firewall



Turn on IP forwarding within myVMNVA



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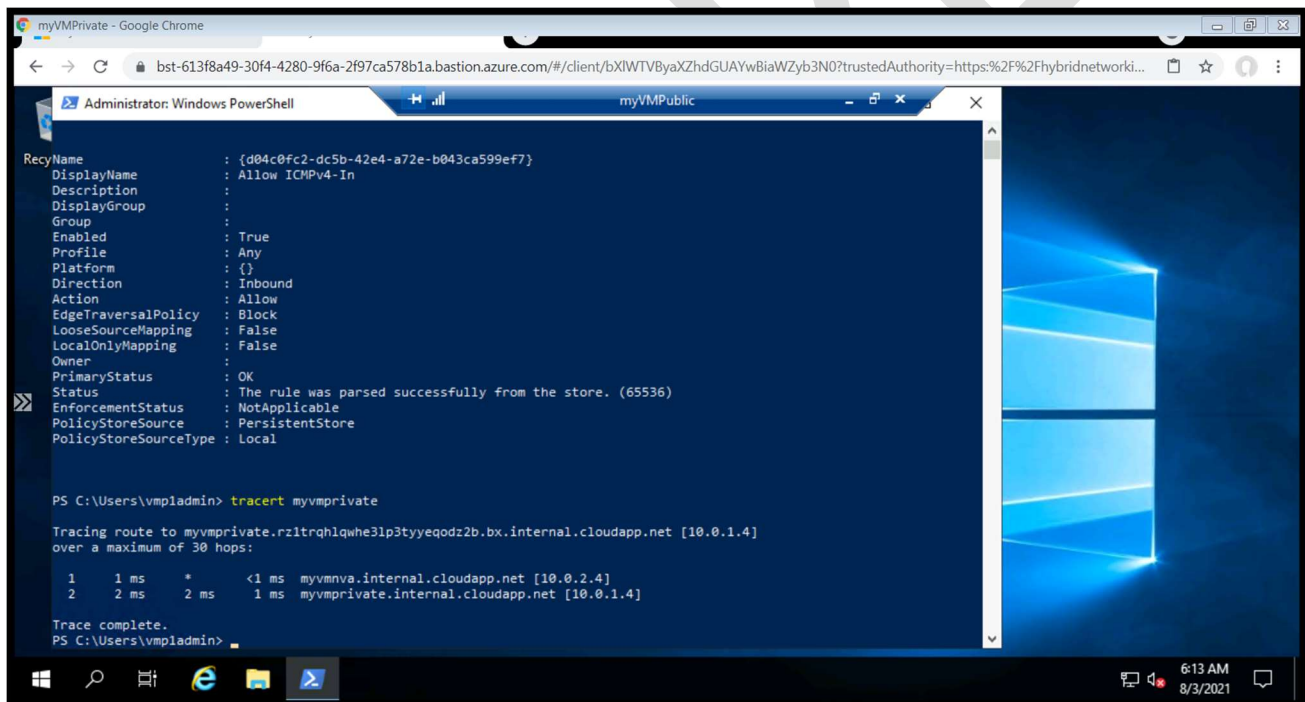


The screenshot shows a Windows PowerShell terminal window titled "Administrator: Windows PowerShell". The command executed is `New-NetFirewallRule -DisplayName "Allow ICMPv4-In" -Protocol ICMPv4`. The output displays the properties of the newly created rule, including its name, display name, description, group, and status. The terminal window is overlaid on a web browser showing a Microsoft Azure portal page.

```
PS C:\Users\vmpladmin> New-NetFirewallRule -DisplayName "Allow ICMPv4-In" -Protocol ICMPv4

Name           : {d04c0fc2-dc5b-42e4-a72e-b043ca599ef7}
DisplayName     : Allow ICMPv4-In
Description     :
DisplayGroup   :
Group           :
Enabled        : True
Profile        : Any
Platform       : {}
Direction     : Inbound
Action         : Allow
EdgeTraversalPolicy : Block
LooseSourceMapping : False
LocalOnlyMapping : False
Owner          :
PrimaryStatus  : OK
Status         : The rule was parsed successfully from the store. (65536)
EnforcementStatus : NotApplicable
PolicyStoreSource : PersistentStore
PolicyStoreSourceType : Local

PS C:\Users\vmpladmin>
```



The screenshot shows a Windows PowerShell terminal window titled "Administrator: Windows PowerShell". The command executed is `tracert myvmprivate`. The output shows the traceroute path from the local machine to the destination, including the number of hops, time taken, and the IP addresses of the intermediate routers. The terminal window is overlaid on a web browser showing a Microsoft Azure portal page.

```
PS C:\Users\vmpladmin> tracert myvmprivate

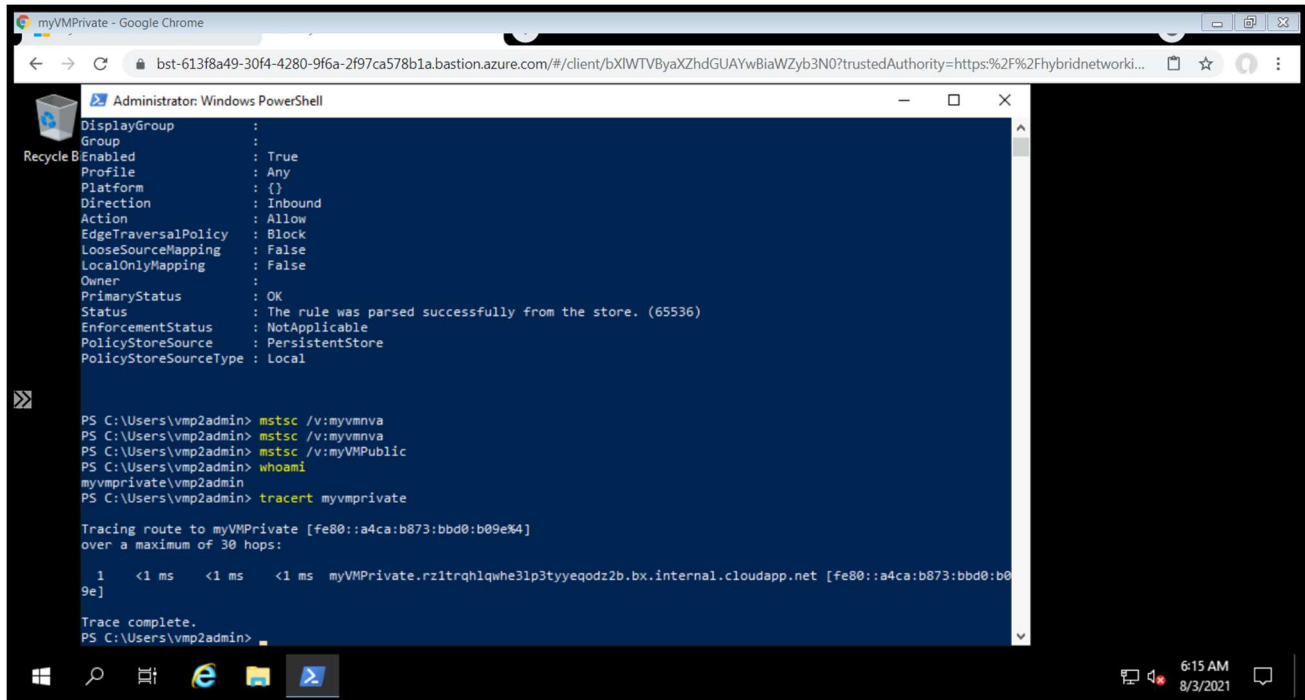
Tracing route to myvmprivate.r2ltrqhlqwhe3lp3tyyeqodz2b.bx.internal.cloudapp.net [10.0.1.4]
over a maximum of 30 hops:

  1  1 ms  *  <1 ms  myvmnva.internal.cloudapp.net [10.0.2.4]
  2  2 ms  2 ms  1 ms  myvmprivate.internal.cloudapp.net [10.0.1.4]

Trace complete.
PS C:\Users\vmpladmin>
```

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The screenshot shows a Windows PowerShell terminal window titled "Administrator: Windows PowerShell". The terminal displays the output of the `Get-NetFirewallRule -Name RecycleBin` command, followed by several `mstsc` commands to connect to different virtual machines, a `whoami` command, and a `tracert` command to `myVMPrivate`. The `tracert` output shows a single hop to the destination IP.

```
DisplayGroup :  
Group :  
Enabled : True  
Profile : Any  
Platform : {}  
Direction : Inbound  
Action : Allow  
EdgeTraversalPolicy : Block  
LooseSourceMapping : False  
LocalOnlyMapping : False  
Owner :  
PrimaryStatus : OK  
Status : The rule was parsed successfully from the store. (65536)  
EnforcementStatus : NotApplicable  
PolicyStoreSource : PersistentStore  
PolicyStoreSourceType : Local  
  
PS C:\Users\vmp2admin> mstsc /v:myvmnva  
PS C:\Users\vmp2admin> mstsc /v:myvmnva  
PS C:\Users\vmp2admin> mstsc /v:myVMPublic  
PS C:\Users\vmp2admin> whoami  
myvmprivate\vmp2admin  
PS C:\Users\vmp2admin> tracert myvmprivate  
  
Tracing route to myVMPrivate [fe80::a4ca:b873:bbd0:b09e%4]  
over a maximum of 30 hops:  
  0  <1 ms  <1 ms  <1 ms  myVMPrivate.r2l1trqhlqwhe3lp3tyyeqodz2b.bx.internal.cloudapp.net [fe80::a4ca:b873:bbd0:b09e%4]  
Trace complete.  
PS C:\Users\vmp2admin>
```

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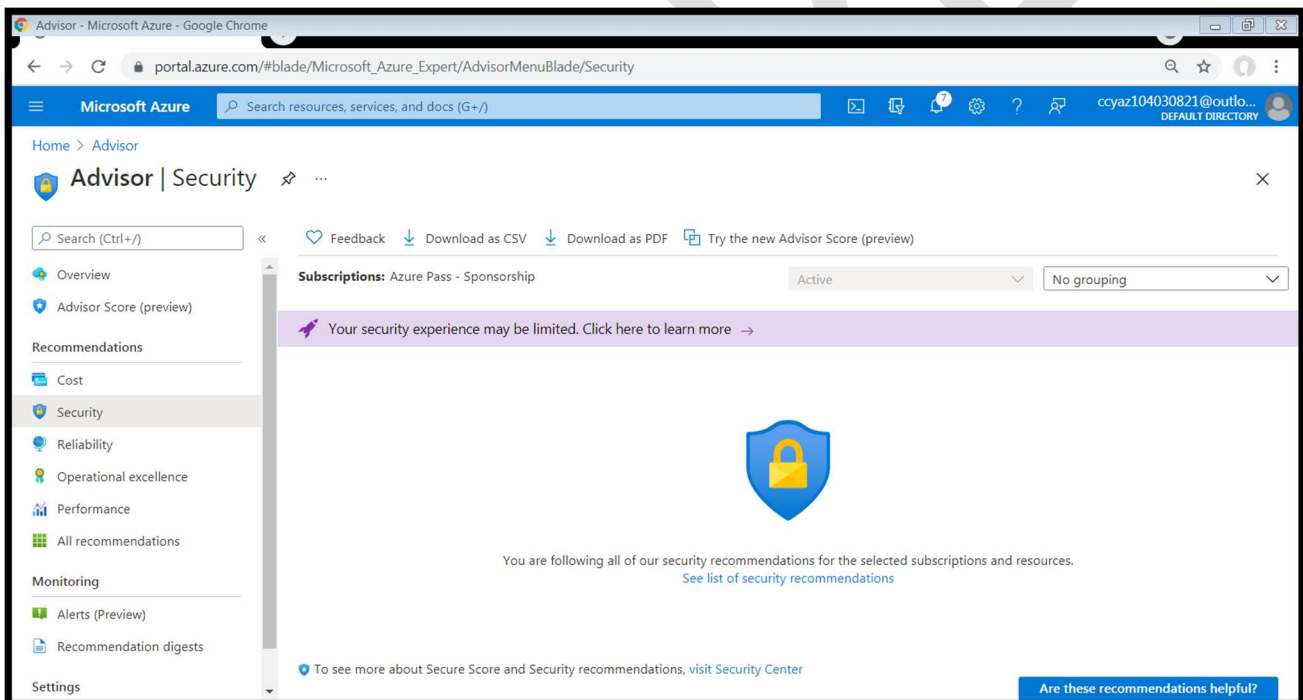
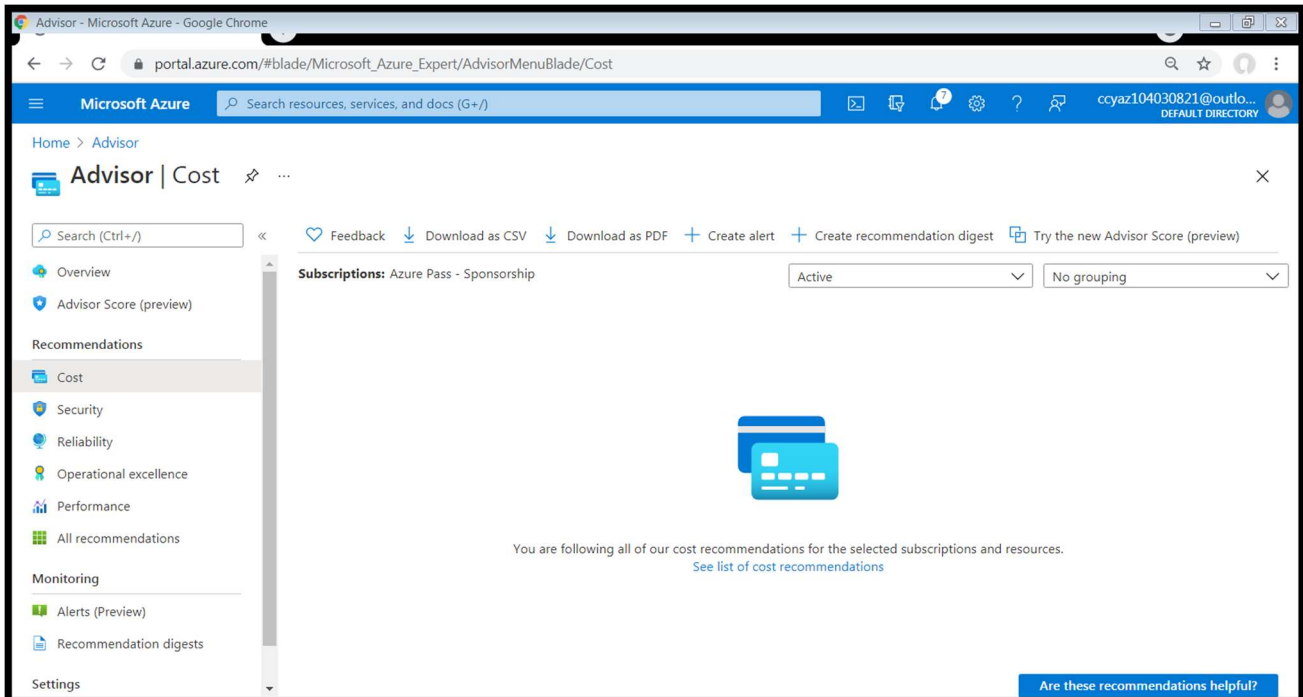
Practice - Advisor Recommendations

The screenshot shows the Microsoft Azure Advisor Overview page. The left sidebar contains a navigation menu with sections: Overview, Advisor Score (preview), Recommendations, Monitoring, and Settings. Under Recommendations, there are links for Cost, Security, Reliability, Operational excellence, Performance, and All recommendations. The main content area displays three recommendation cards: Cost, Security, and Reliability. Each card shows a green checkmark and the message "You are following all of our [category] recommendations" with a link to "See list of [category] recommendations". Above these cards, there is a "Subscriptions: Azure Pass - Sponsorship" dropdown set to "Active". At the top, there are links for "Feedback", "Download as CSV", "Download as PDF", and "Try the new Advisor Score (preview)".

This screenshot shows the same Microsoft Azure Advisor Overview page, but with different recommendations displayed. The main content area now features two recommendation cards: "Operational excellence" and "Performance", both showing green checkmarks and links to "See list of [category] recommendations". A third card titled "Try Advisor Score" is visible, encouraging users to "Preview the new Advisor score experience today" with a "Try now" button. Below the recommendation cards, there is a "Tips & tricks" section and two download buttons: "Download recommendations as PDF" and "Download recommendations as CSV". The left sidebar and top navigation remain the same as in the previous screenshot.

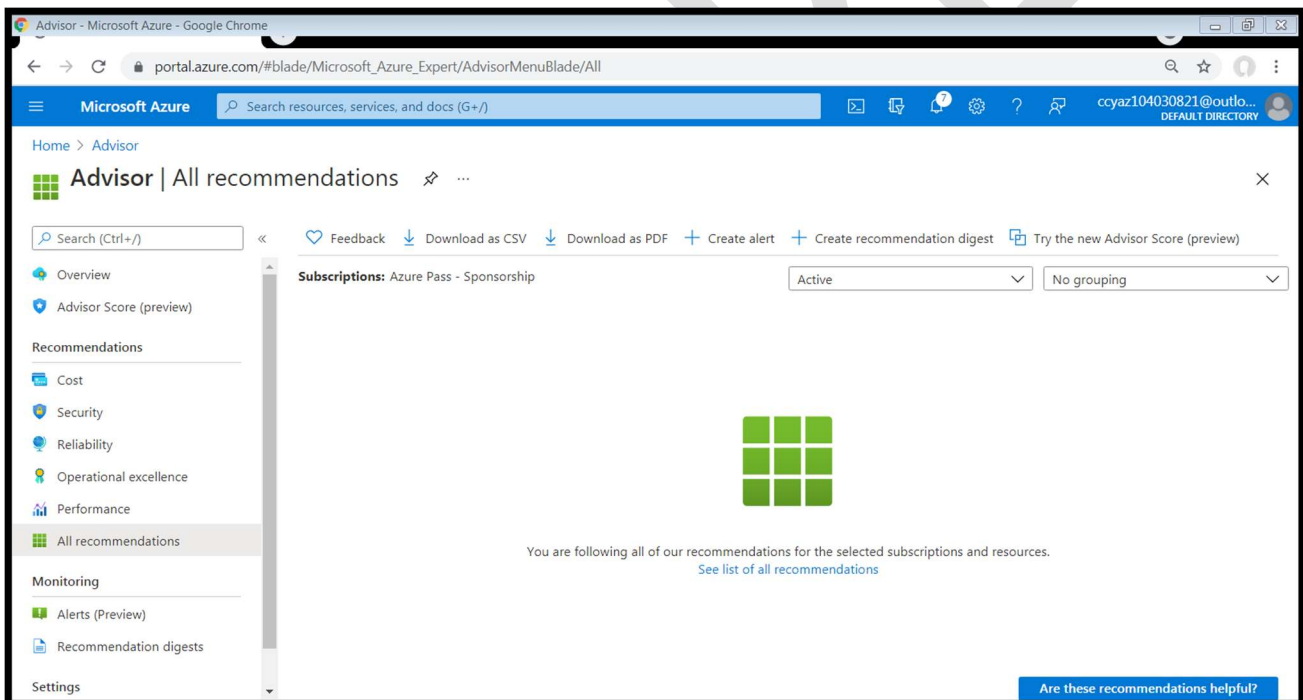
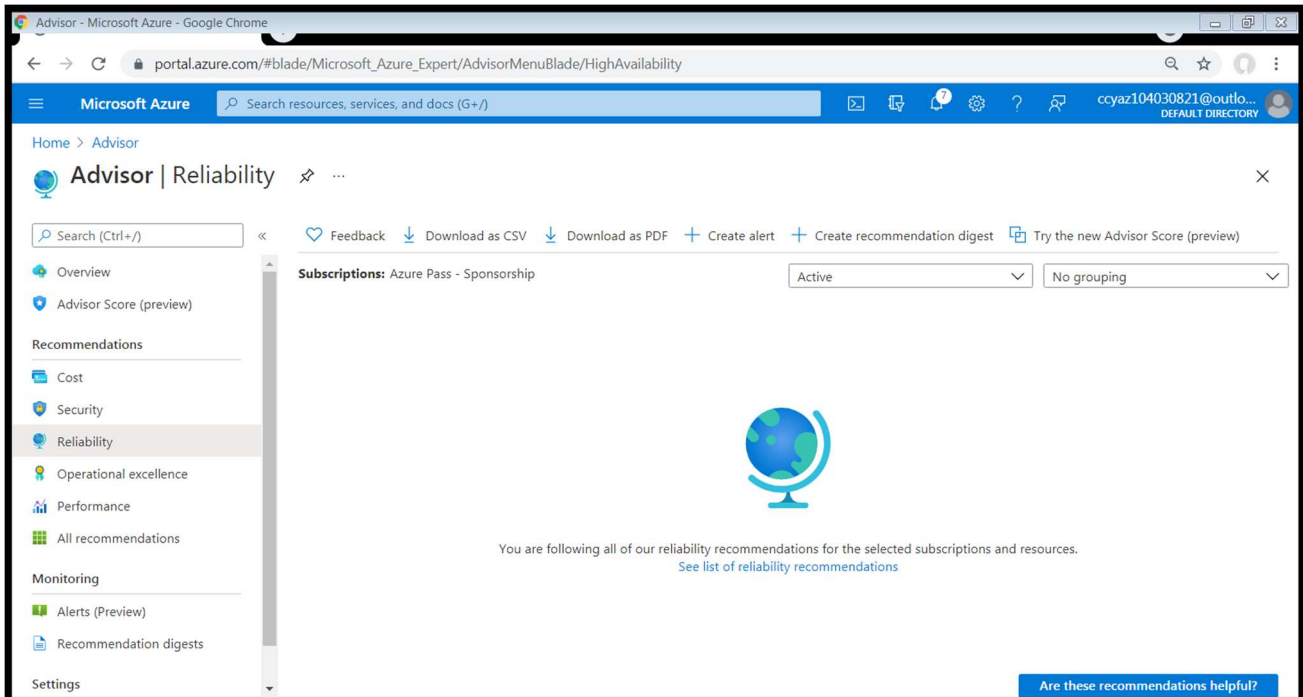
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Advisor - Microsoft Azure - Google Chrome

portal.azure.com/#blade/Microsoft_Azure_Expert/AdvisorMenuBlade/configuration

Microsoft Azure Search resources, services, and docs (G+)

ccyaz104030821@outlo... DEFAULT DIRECTORY

Home > Advisor

Advisor | Configuration

Search (Ctrl+ /)

Advisor Score (preview)

Recommendations

- Cost
- Security
- Reliability
- Operational excellence
- Performance
- All recommendations

Monitoring

- Alerts (Preview)
- Recommendation digests

Settings

- Configuration

Resources Rules

You can configure Advisor to exclusively process recommendations for resources that matter to you the most. [Learn more](#)

Subscription	Include
▼ Azure Pass - Sponsorship	<input checked="" type="checkbox"/>
az104-05-rg2	<input checked="" type="checkbox"/>
az104-03a-rg3	<input checked="" type="checkbox"/>
NetworkWatcherRG	<input checked="" type="checkbox"/>
myResourceGroup	<input checked="" type="checkbox"/>
az104-05-rg0	<input checked="" type="checkbox"/>
az104-05-rg1	<input checked="" type="checkbox"/>
cloud-shell-storage-southeastasia	<input checked="" type="checkbox"/>

Apply Cancel

Advisor - Microsoft Azure - Google Chrome

portal.azure.com/#blade/Microsoft_Azure_Expert/AdvisorMenuBlade/configuration

Microsoft Azure Search resources, services, and docs (G+)

ccyaz104030821@outlo... DEFAULT DIRECTORY

Home > Advisor

Advisor | Configuration

Search (Ctrl+ /)

Advisor Score (preview)

Recommendations

- Cost
- Security
- Reliability
- Operational excellence
- Performance
- All recommendations

Monitoring

- Alerts (Preview)
- Recommendation digests

Settings

- Configuration

Resources Rules

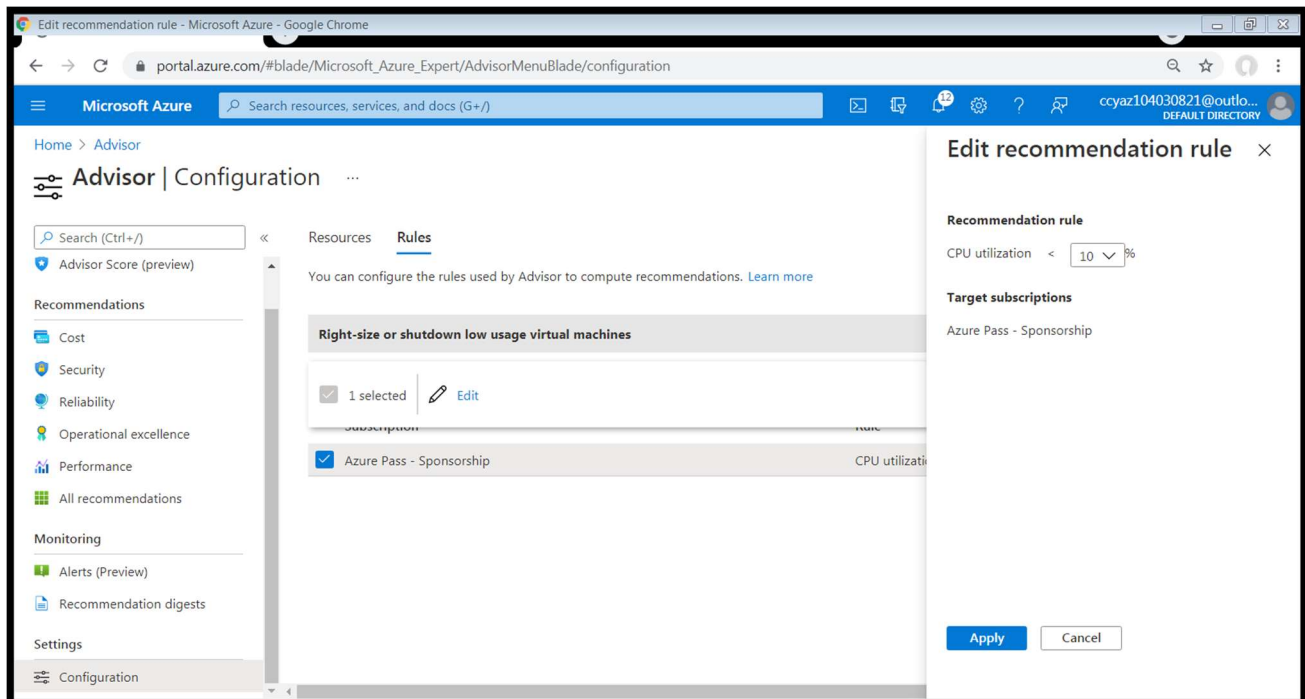
You can configure Advisor to exclusively process recommendations for resources that matter to you the most. [Learn more](#)

Subscription	Include
▼ Azure Pass - Sponsorship	<input type="checkbox"/>
az104-05-rg2	<input checked="" type="checkbox"/>
az104-03a-rg3	<input checked="" type="checkbox"/>
NetworkWatcherRG	<input type="checkbox"/>
myResourceGroup	<input checked="" type="checkbox"/>
az104-05-rg0	<input checked="" type="checkbox"/>
az104-05-rg1	<input checked="" type="checkbox"/>
cloud-shell-storage-southeastasia	<input checked="" type="checkbox"/>

Apply Cancel

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Practice – Azure Network Watcher

Exercise 1: Prepare infrastructure for Azure Network Watcher-based monitoring

Task 1: Deploy Azure VMs, an Azure Storage account, and an Azure SQL Database instance by using Azure Resource Manager templates

The image displays two screenshots of the Microsoft Azure portal, showing resource groups and their associated resources.

Top Screenshot: az1010301b-RG

Resource group: az1010301b-RG

Essentials:

- Subscription (change): Azure Pass - Sponsorship
- Subscription ID: b84e07f9-7c40-44da-84d2-ed3bccd8d354
- Location: East US
- Deployments: 1 Succeeded

Tags (change): Click here to add tags

Filter for any field...

Type == all Location == all Add filter

Showing 1 to 9 of 9 records. Show hidden types No grouping List view

Name	Type	Location
az1010301b-db1 (sql1010301bf7m66hlazz5pw/az1010301b-vm1)	SQL database	East US
az1010301b-nic1	Network interface	East US
az1010301b-nsg1	Network security group	East US
az1010301b-pip1	Public IP address	East US
az1010301b-vm1	Virtual machine	East US
az1010301b-vm1_disk1_565cd283b1984f698851c3ade62...	Disk	East US
az1010301b-vnet1	Virtual network	East US
az1010301b7m66hlazz5pw	Storage account	East US
sql1010301bf7m66hlazz5pw	SQL server	East US

Bottom Screenshot: az1010302b-RG

Resource group: az1010302b-RG

Essentials:

- Subscription (change): Azure Pass - Sponsorship
- Subscription ID: b84e07f9-7c40-44da-84d2-ed3bccd8d354
- Location: East US 2
- Deployments: 1 Succeeded

Tags (change): Click here to add tags

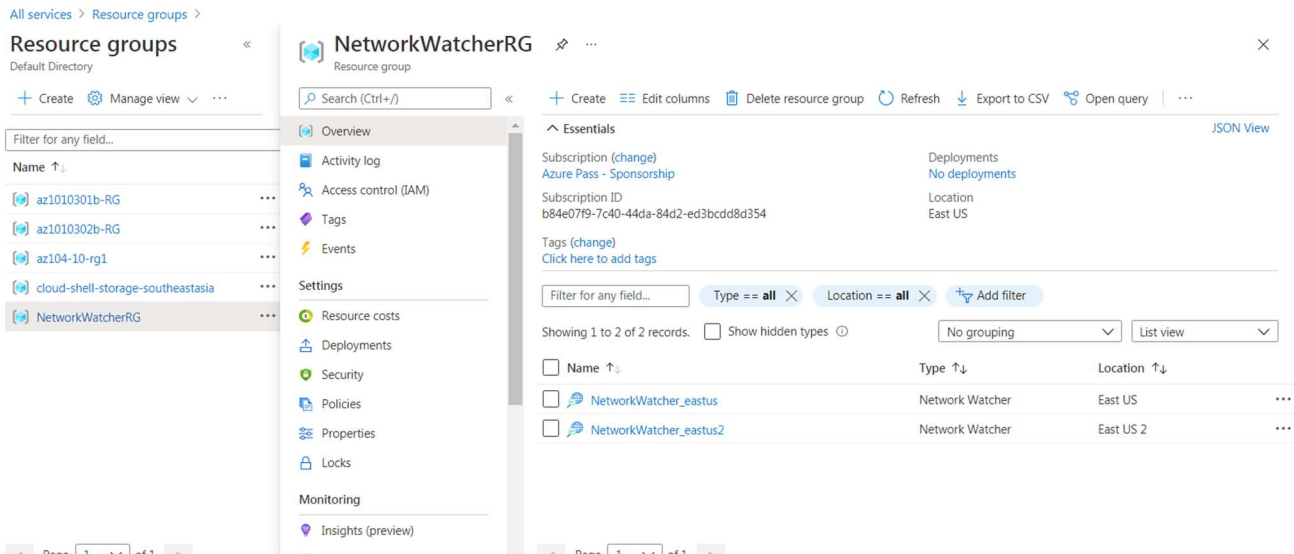
Filter for any field...

Type == all Location == all Add filter

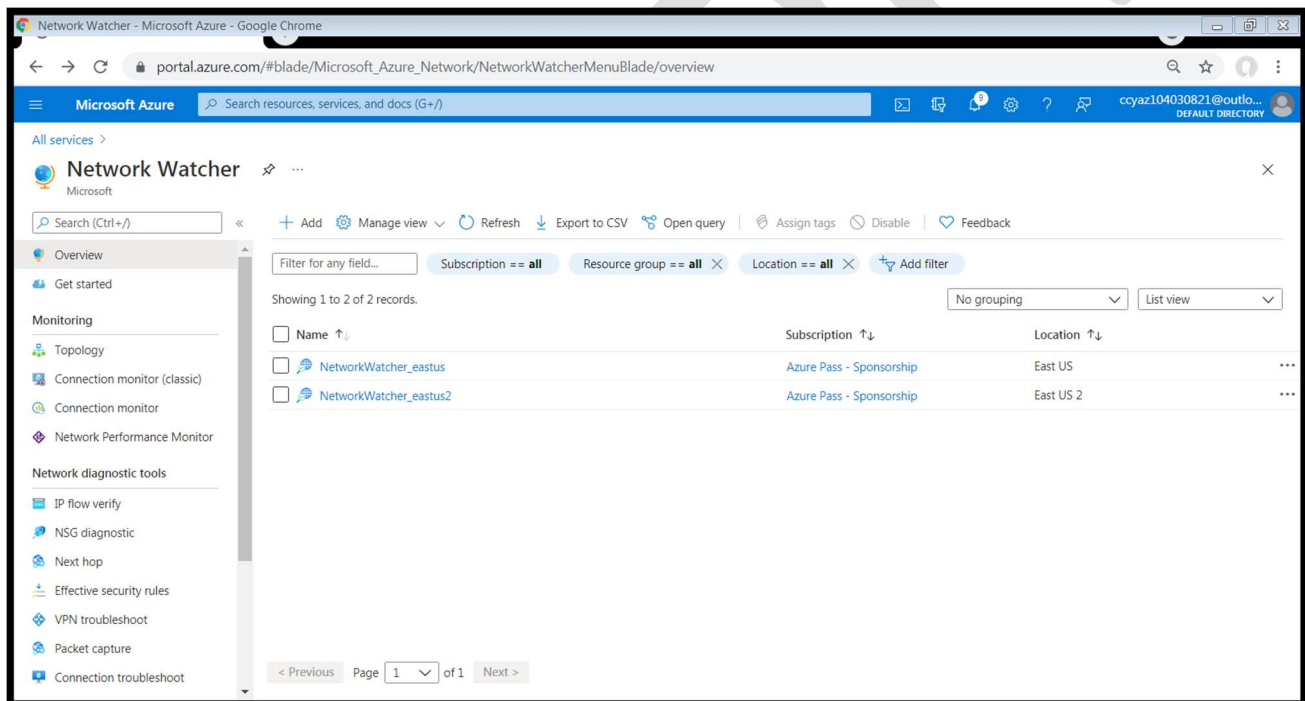
Showing 1 to 6 of 6 records. Show hidden types No grouping List view

Name	Type	Location
az1010302b-nic1	Network interface	East US 2
az1010302b-nsg1	Network security group	East US 2
az1010302b-pip1	Public IP address	East US 2
az1010302b-vm2	Virtual machine	East US 2
az1010302b-vm2_OsDisk_1_44048e652c04460183c34e44...	Disk	East US 2
az1010302b-vnet2	Virtual network	East US 2

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Task 2: Enable Azure Network Watcher service



Task 3: Establish peering between Azure virtual networks

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The screenshot shows the Microsoft Azure portal interface. The breadcrumb navigation indicates the path: All services > Virtual networks > az1010301b-vnet1. The main heading is 'az1010301b-vnet1 | Peerings'. A left-hand navigation pane lists various services, with 'Peerings' selected. The main content area displays a table of peering connections. The table has columns for Name, Peering status, Peer, and Gateway transit. One peering connection is listed: 'az1010301b-vnet1-to-az1010302b-vnet2' with a status of 'Connected', peer 'az1010302b-vnet2', and gateway transit 'Disabled'.

Name	Peering status	Peer	Gateway transit
az1010301b-vnet1-to-az1010302b-vnet2	Connected	az1010302b-vnet2	Disabled

The screenshot shows the configuration details for the peering connection 'az1010301b-vnet1-to-az1010302b-vnet2'. The page displays various settings for the peering link, including its name, status, and state. It also includes options for traffic to and from the remote virtual network, and the virtual network gateway or route server configuration. The 'Save' button is visible at the bottom.

Peering link name: az1010301b-vnet1-to-az1010302b-vnet2

Peering status: Connected

Peering state: Succeeded

Traffic to remote virtual network: ☒ Allow (default)

Traffic forwarded from remote virtual network: ☒ Block traffic that originates from outside this virtual network

Virtual network gateway or Route Server: ☒ None (default)

Remote virtual network: /subscriptions/b84e07f9-7c40-44da-84d2-ed3bcd8d354/resourceGroups/az1010302b-RG/providers/Microsoft.Network...

SAMPLE SOLUTION ONLY. DO NOT COPY!!