

At the beginning

Home >

## All resources

Centennial College (CentennialCollegeEDU.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags Delete

Filter for any field... Subscription equals all Resource group equals all Type equals all Location equals all Add filter

0 Unsecure resources 0 Recommendations

No grouping List view

Name ↑ Type ↑↓ Resource group ↑↓ Location ↑↓ Subscription ↑↓

No resources match your filters

Try changing or clearing your filters.

Create resources Clear filters

Learn more

Give feedback

Home >

## All resources

Centennial College (CentennialCollegeEDU.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags Delete

Filter for any field...

Subscription equals all

Resource group equals all

Type equals all

Location equals all

+ Add filter

0 Unsecure resources

0 Recommendations

No grouping

List view

Name ↑↓

Type ↑↓

Resource group ↑↓

Location ↑↓

Subscription ↑↓

You have no storage mounted

Azure Cloud Shell requires an Azure file share to persist files. [Learn more](#)  
This will create a new storage account for you and this will incur a small monthly cost. [View pricing](#)

Subscription

Azure for Students

[Show advanced settings](#)

Create storage

Close

```
PowerShell
Requesting a Cloud Shell.Succeeded.
Connecting terminal...

MOTD: Cmdlet help is available: help <cmdlet name>

VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...
PS /home/mehmet>

Upload destination: /home/mehmet
az104-06-vms-loop-parameters.json COMPLETE
```

```
PowerShell
Requesting a Cloud Shell.Succeeded.
Connecting terminal...

MOTD: Cmdlet help is available: help <cmdlet name>

VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...
PS /home/mehmet>

Upload destination: /home/mehmet
az104-06-vms-loop-template.json COMPLETE
```

Requesting a Cloud Shell.**Succeeded.**  
Connecting terminal...

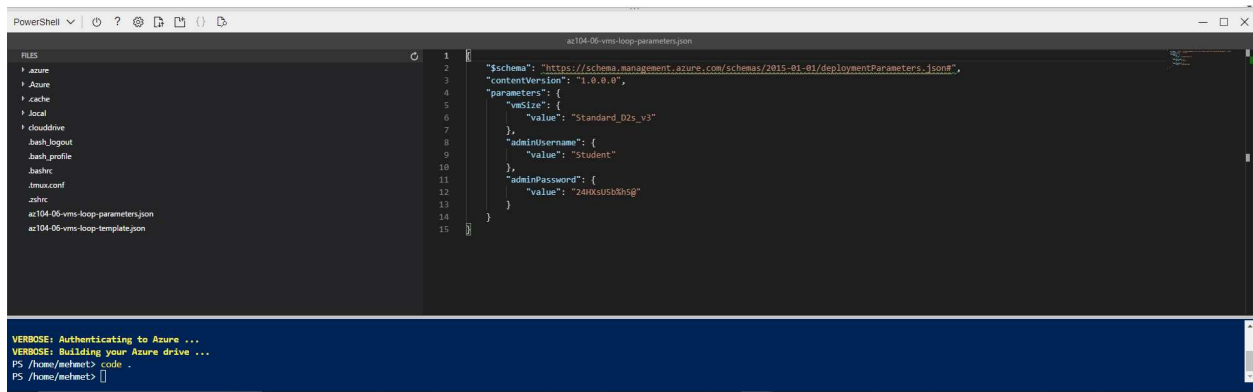
MOTD: Cmdlet help is available: help <cmdlet name>

**VERBOSE: Authenticating to Azure ...**

**VERBOSE: Building your Azure drive ...**

PS /home/mehmet> code .

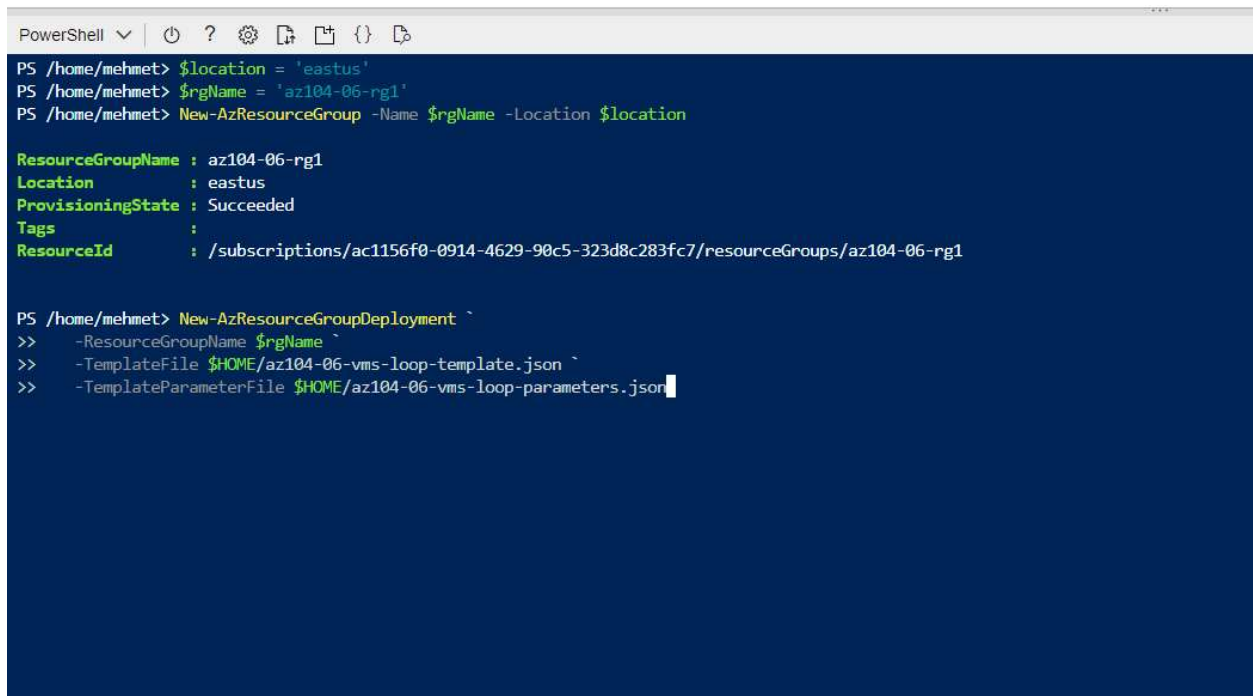
PS /home/mehmet> █



The screenshot shows a PowerShell terminal window with a file explorer on the left and a JSON file's content in the main pane. The file explorer lists files like .azure, .cache, .bash, .cloudrive, .bash\_logout, .bash\_profile, .bashrc, .tmux.conf, .zshrc, az104-06-vms-loop-parameters.json, and az104-06-vms-loop-template.json. The main pane displays the content of az104-06-vms-loop-parameters.json, which is a JSON object with schema, contentVersion, and parameters (vmSize, adminUsername, adminPassword) fields.

```
1 {
2   "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentParameters.json#",
3   "contentVersion": "1.0.0.0",
4   "parameters": {
5     "vmSize": {
6       "value": "Standard_D2s_v3"
7     },
8     "adminUsername": {
9       "value": "Student"
10    },
11    "adminPassword": {
12      "value": "200ksU5Dkhs0"
13    }
14  }
15 }
```

VERBOSE: Authenticating to Azure ...  
VERBOSE: Building your Azure drive ...  
PS /home/mehmet> code .  
PS /home/mehmet> █



The screenshot shows a PowerShell terminal window with the execution of two commands. The first command, New-AzResourceGroup, creates a resource group named 'az104-06-rg1' in the 'eastus' location. The second command, New-AzResourceGroupDeployment, deploys the 'az104-06-vms-loop-template.json' file to the resource group using the 'az104-06-vms-loop-parameters.json' file as the template parameter file.

```
PS /home/mehmet> $location = 'eastus'
PS /home/mehmet> $rgName = 'az104-06-rg1'
PS /home/mehmet> New-AzResourceGroup -Name $rgName -Location $location

ResourceGroupName : az104-06-rg1
Location           : eastus
ProvisioningState   : Succeeded
Tags               :
ResourceId          : /subscriptions/ac1156f0-0914-4629-90c5-323d8c283fc7/resourceGroups/az104-06-rg1

PS /home/mehmet> New-AzResourceGroupDeployment `
>> -ResourceGroupName $rgName `
>> -TemplateFile $HOME/az104-06-vms-loop-template.json `
>> -TemplateParameterFile $HOME/az104-06-vms-loop-parameters.json █
```

```
DeploymentName      : az104-06-vms-loop-template
ResourceGroupName   : az104-06-rg1
ProvisioningState    : Succeeded
Timestamp           : 11/4/2022 2:33:01 AM
Mode                 : Incremental
TemplateLink         :
Parameters           :

                        Name                Type                Value
=====
vmSize               String              "Standard_DS1_v2"
vmName                String              "az104-06-vm"
vmCount              Int                4
adminUsername         String              "Student"
adminPassword         SecureString          null

Outputs              :
DeploymentDebugLogLevel :
```

Home > Resource groups

Centennial College (CentennialCollegeEDU.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Location equals all Add filter

0 Unsecured resources 0 Recommendations

Name	Subscription	Location
az104-06-rg1	Azure for Students	East US
cloud-shell-storage-eastus	Azure for Students	East US
NetworkWatcherRG	Azure for Students	East US

< Previous Page 1 of 1 Next > Showing 1 to 3 of 3 records

Give feedback

Home > Resource groups > az104-06-rg1

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+ Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete Export template Open in mobile

Search

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Policies

Properties

Locks

Cost Management

Cost analysis

Cost alerts (preview)

Budgets

Advisor recommendations

Monitoring

Insights (preview)

Alerts

Metrics

Diagnostic settings

Essentials

Subscription (move) : Azure for Students

Subscriptions ID : ac1156f0-0914-4629-90c5-323d8c283fc7

Tags (edit) : Click here to add tags

Deployments : 1 Deploying

Location : East US

Resources

Recommendations

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 18 of 18 records. Show hidden types

Name	Type	Location
az104-06-nic0	Network Interface	East US
az104-06-nic1	Network Interface	East US
az104-06-nic2	Network Interface	East US
az104-06-nic3	Network Interface	East US
az104-06-nsg01	Network security group	East US
az104-06-nsg2	Network security group	East US
az104-06-nsg3	Network security group	East US
az104-06-vm0	Virtual machine	East US
az104-06-vm0_OsDisk_1_6aa89c231f124fb0addc739e7827e3f9	Disk	East US
az104-06-vm1	Virtual machine	East US
az104-06-vm1_OsDisk_1_1367ea644be43a5abe2a7414fa098d	Disk	East US

< Previous Page 1 of 1 Next >

Give feedback

## az104-06-vms-loop-template | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

## Overview

## Inputs

## Outputs

## Template

## Deployment is in progress

Deployment name: az104-06-vms-loop-template  
Subscription: Azure for Students  
Resource group: az104-06-rg1

Start time: 11/2/2022 4:07:04 PM  
Correlation ID: 575d8c49-15b8-4d7e-b3eb-4e66a5bcfffa

## Deployment details

Resource	Type	Status	Operation details
az104-06-vm0/customScriptExtension	Microsoft.Compute/virtualMachines/extensions	Created	<a href="#">Operation details</a>
az104-06-vm1/customScriptExtension	Microsoft.Compute/virtualMachines/extensions	Created	<a href="#">Operation details</a>
az104-06-vm2/customScriptExtension	Microsoft.Compute/virtualMachines/extensions	Created	<a href="#">Operation details</a>
az104-06-vm3/customScriptExtension	Microsoft.Compute/virtualMachines/extensions	Created	<a href="#">Operation details</a>
az104-06-vm0	Microsoft.Compute/virtualMachines	OK	<a href="#">Operation details</a>
az104-06-vm1	Microsoft.Compute/virtualMachines	OK	<a href="#">Operation details</a>
az104-06-vm2	Microsoft.Compute/virtualMachines	OK	<a href="#">Operation details</a>
az104-06-vm3	Microsoft.Compute/virtualMachines	OK	<a href="#">Operation details</a>
az104-06-nic2	Microsoft.Network/networkInterfaces	Created	<a href="#">Operation details</a>
az104-06-nic3	Microsoft.Network/networkInterfaces	Created	<a href="#">Operation details</a>
az104-06-nic0	Microsoft.Network/networkInterfaces	Created	<a href="#">Operation details</a>
az104-06-nic1	Microsoft.Network/networkInterfaces	Created	<a href="#">Operation details</a>
az104-06-vnet01/subnet1	Microsoft.Network/virtualNetworks/subnets	OK	<a href="#">Operation details</a>
az104-06-msg01	Microsoft.Network/networkSecurityGroups	OK	<a href="#">Operation details</a>
az104-06-vnet3	Microsoft.Network/virtualNetworks	OK	<a href="#">Operation details</a>
az104-06-vnet01	Microsoft.Network/virtualNetworks	OK	<a href="#">Operation details</a>
az104-06-vnet2	Microsoft.Network/virtualNetworks	OK	<a href="#">Operation details</a>
az104-06-vnet03	Microsoft.Network/virtualNetworks	OK	<a href="#">Operation details</a>

## az104-06-rg1

Resource group

Search

Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete Export template Open in mobile

## Overview

## Activity log

## Access control (IAM)

## Tags

## Resource visualizer

## Events

## Settings

## Deployments

## Security

## Policies

## Properties

## Locks

## Cost Management

## Cost analysis

## Cost alerts (preview)

## Budgets

## Advisor recommendations

## Monitoring

## Insights (preview)

## Alerts

## Metrics

## Diagnostic settings

## Logs

## Advisor recommendations

## Workbooks

## Automation

## Export template

## Support + troubleshooting

## New Support Request

## Essentials

Subscription (input): Azure for Students

Subscription ID: ac11590-0914-4829-9053-32a8b28967

Tags (add): Click here to add tags

Deployments: 1 Failed

Location: East US

JSON View

## Resources

Recommendations (1)

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 18 of 18 records Show hidden types

Name T1

Type T2

Location T3

az104-06-nic0	Network interface	East US
az104-06-nic1	Network interface	East US
az104-06-nic2	Network interface	East US
az104-06-nic3	Network interface	East US
az104-06-msg01	Network security group	East US
az104-06-msg2	Network security group	East US
az104-06-msg3	Network security group	East US
az104-06-vm0	Virtual machine	East US
az104-06-vm0_CvDisk_L_4ea8b2317173d6b6ee739a7827a3d9	Disk	East US
az104-06-vm1	Virtual machine	East US
az104-06-vm1_CvDisk_L_1387ee84d6e43d6a267414ae098d	Disk	East US
az104-06-vm2	Virtual machine	East US
az104-06-vm2_CvDisk_L_4e38a773c9d478da7d338e0c0f81d3	Disk	East US
az104-06-vm3	Virtual machine	East US
az104-06-vm3_CvDisk_L_3d130a2cd1304788a712607d1ad6a	Disk	East US
az104-06-vnet01	Virtual network	East US
az104-06-vnet02	Virtual network	East US
az104-06-vnet03	Virtual network	East US

Previous Page 1 of 1 Next

Give feedback

```

PS /home/mehmet> $rgName = 'az104-06-rg1'
PS /home/mehmet> $location = (Get-AzResourceGroup -ResourceGroupName $rgName).location
PS /home/mehmet> $vmNames = (Get-AzVM -ResourceGroupName $rgName).Name
PS /home/mehmet> foreach ($vmName in $vmNames) {
>> Set-AzVMExtension `
>> -ResourceGroupName $rgName `
>> -Location $location `
>> -VMName $vmName `
>> -Name 'networkWatcherAgent' `
>> -Publisher 'Microsoft.Azure.NetworkWatcher' `
>> -Type 'NetworkWatcherAgentWindows' `
>> -TypeHandlerVersion '1.4'
>> }

```

RequestId	IsSuccess	Status Code	ReasonPhrase
	True	OK	OK
	True	OK	OK
	True	OK	OK
	True	OK	OK

```

PS /home/mehmet>

```

Home > Virtual networks

Central College (CentralCollegeEU@microsoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field: Subscription equals all Resource group equals all Location equals all Add filter

No grouping All use view

Name	Resource group	Location	Subscription
az104-06-vm01	az104-06-rg1	East US	Azure for Students
az104-06-vm02	az104-06-rg1	East US	Azure for Students
az104-06-vm03	az104-06-rg1	East US	Azure for Students

## Add peering

az104-06-vnet01

**i** For peering to work, two peering links must be created. By selecting remote virtual network, Azure will create both peering links.

This virtual network

Peering link name \*

az104-06-vnet01\_to\_az104-06-vnet2

Traffic to remote virtual network ⓘ

- ☒ Allow (default)
- ☐ Block all traffic to the remote virtual network

Traffic forwarded from remote virtual network ⓘ

- ☐ Allow (default)
- ☒ Block traffic that originates from outside this virtual network

Virtual network gateway or Route Server ⓘ

- ☐ Use this virtual network's gateway or Route Server
- ☐ Use the remote virtual network's gateway or Route Server
- ☒ None (default)

Remote virtual network

Peering link name \*

az104-06-vnet2\_to\_az104-06-vnet01

Virtual network deployment model ⓘ

- ☒ Resource manager
- ☐ Classic

☐ I know my resource ID ⓘ

Subscription \* ⓘ

Azure for Students

Virtual network \*

az104-06-vnet2

Traffic to remote virtual network ⓘ

- ☒ Allow (default)
- ☐ Block all traffic to the remote virtual network

Traffic forwarded from remote virtual network ⓘ

- ☒ Allow (default)

Add

az104-06-vnet01 | Peerings

Virtual network

Search

+ Add Refresh Sync

Tags

Diagnose and solve problems

Settings

Address space

Connected devices

Subnets

Bastion

DDoS protection

Firewall

Microsoft Defender for Cloud

Filter by name:

Peerings status: all

Name	Peerings status	Peer
az104-06-vnet01_to_az104-06-vnet02	Updating	az104-06-vnet02

Peerings

More events in the activity log

Dismiss all

Added virtual network peering

Successfully added virtual network peering 'az104-06-vnet02\_to\_az104-06-vnet01' to 'az104-06-vnet02'.

a few seconds ago

Added virtual network peering

Successfully added virtual network peering 'az104-06-vnet01\_to\_az104-06-vnet02' to 'az104-06-vnet01'.

a few seconds ago



## Add peering

az104-06-vnet01

This virtual network

Peering link name \*

az104-06-vnet01\_to\_az104-06-vnet03



Traffic to remote virtual network ⓘ

- ☒ Allow (default)
- ☐ Block all traffic to the remote virtual network

Traffic forwarded from remote virtual network ⓘ

- ☐ Allow (default)
- ☒ Block traffic that originates from outside this virtual network

Virtual network gateway or Route Server ⓘ

- ☐ Use this virtual network's gateway or Route Server
- ☐ Use the remote virtual network's gateway or Route Server
- ☒ None (default)

Remote virtual network

Peering link name \*

az104-06-vnet03\_to\_az104-06-vnet01



Virtual network deployment model ⓘ

- ☒ Resource manager
- ☐ Classic

☐ I know my resource ID ⓘ

Subscription \*

Azure for Students



Virtual network \*

az104-06-vnet3



Traffic to remote virtual network ⓘ

- ☒ Allow (default)
- ☐ Block all traffic to the remote virtual network

Traffic forwarded from remote virtual network ⓘ

- ☒ Allow (default)
- ☐ Block traffic that originates from outside this virtual network

Virtual network gateway or Route Server ⓘ

- ☐ Use this virtual network's gateway or Route Server
- ☐ Use the remote virtual network's gateway or Route Server
- ☒ None (default)

Add

az104-06-vnet01 | Peerings

Virtual network

Search

Tags

Diagnose and solve problems

Settings

Address space

Connected devices

Subnets

Bastion

DDoS protection

Firewall

Microsoft Defender for Cloud

Network manager

DNS servers

Peerings

Filter by name

Peerings status == all

Name	Peerings status	Peer
az104-06-vnet01_to_az104-06-vnet02	Connected	az104-06-vnet02
az104-06-vnet01_to_az104-06-vnet03	Updating	az104-06-vnet03

Notifications

More events in the activity log

Dismiss all

Added virtual network peering

Successfully added virtual network peering: az104-06-vnet03\_to\_az104-06-vnet01 to az104-06-vnet03

a few seconds ago

Added virtual network peering

Successfully added virtual network peering: az104-06-vnet01\_to\_az104-06-vnet02 to az104-06-vnet01

a few seconds ago

Added virtual network peering

Successfully added virtual network peering: az104-06-vnet02\_to\_az104-06-vnet01 to az104-06-vnet02

4 minutes ago

Added virtual network peering

Successfully added virtual network peering: az104-06-vnet01\_to\_az104-06-vnet02 to az104-06-vnet01

4 minutes ago

Home > Network Watcher

Network Watcher | Connection troubleshoot

Microsoft

Search

Overview

Get started

Monitoring

Topology

Connection monitor (classic)

Connection monitor

Network Performance Monitor

Network diagnostic tools

IP flow verify

NSG diagnostics

Next hop

Effective security rules

VPN troubleshoot

Packet capture

Connection troubleshoot

Metrics

Usage + quotas

Logs

NSG flow logs

Diagnostics logs

Traffic Analytics

Source

Subscription

Azure for Students

Resource group

az104-06-rg1

Source type

Virtual machine

\*Virtual machine

az104-06-vm0

Destination

Select a virtual machine

Specify manually

URI, FQDN or IP address

10.62.0.4

Probe Settings

Protocol

TCP

ICMP

Destination port

3389

Advanced settings

Check

Status

Reachable

Agent extension version

1.4

Source virtual machine

az104-06-vm0

Grid view

Topology view

Hops

Name	IP address	Status	Next hop IP address	RTT
az104-06-vm0	10.60.0.4	Reachable	10.62.0.4	1
az104-06-nic2	10.62.0.4	Reachable	-	-

## Network Watcher | Connection troubleshoot

Microsoft

Search

Overview

Get started

### Monitoring

Topology

Connection monitor (classic)

Connection monitor

Network Performance Monitor

### Network diagnostic tools

IP flow verify

NSG diagnostics

Next hop

Effective security rules

VPN troubleshoot

Packet capture

Connection troubleshoot

### Metrics

Usage + quotas

### Logs

NSG flow logs

Diagnostic logs

Traffic Analytics

Virtual machine

\*Virtual machine

az104-06-vm0

Destination

☐ Select a virtual machine ☒ Specify manually

URI, FQDN or IP address \*

10.63.0.4

Probe Settings

Protocol

☒ TCP ☐ ICMP

Destination port \*

3389

Advanced settings

Check

Status

Reachable

Agent extension version

1.4

Source virtual machine

az104-06-vm0

Grid view



Topology view

Hops


Name	IP address	Status	Next hop IP address	RTT
az104-06-vm0	10.60.0.4	Reachable	10.63.0.4	1
az104-06-nic3	10.63.0.4	Reachable	-	-

## Network Watcher | Connection troubleshoot





Microsoft

 Overview Get started

## Monitoring

 Topology Connection monitor (classic) Connection monitor Network Performance Monitor


## Network diagnostic tools

 IP flow verify NSG diagnostics Next hop Effective security rules VPN troubleshoot Packet capture Connection troubleshoot

## Metrics

 Usage + quotas

## Logs

 NSG flow logs Diagnostic logs Traffic Analytics

Source type \*

Virtual machine

\*Virtual machine

az104-06-vm2

Destination

☐ Select a virtual machine ☒ Specify manually

URI, FQDN or IP address \*

10.63.0.4

Probe Settings

Protocol ⓘ

TCP

ICMP

Destination port \* ⓘ

3389

Advanced settings

Check

Status

 Unreachable

Agent extension version

1.4

Source virtual machine

az104-06-vm2

Grid view

Topology view

Hops

Name	IP address	Status	Next hop IP address	RTT
 az104-06-vm2	10.62.0.4		10.63.0.4	-
 Destination (10,...	10.63.0.4		-	-



## az104-06-vm0 | Networking

Virtual machine

[Attach network interface](#)[Detach network interface](#)[Overview](#)[Activity log](#)[Access control \(IAM\)](#)[Tags](#)[Diagnose and solve problems](#)

### Settings

[Networking](#)[Connect](#)[Windows Admin Center](#)

### az104-06-nic0

IP configuration ⓘ

ipconfig1 (Primary) ▾

**Network Interface:** az104-06-nic0 [Effective security](#)  
Virtual network/subnet: az104-06-vnet01/subnet0 NIC P

[Inbound port rules](#)[Outbound port rules](#)[Applica](#)

**Network security group** az104-06-nsg01 (attached to  
Impacts 0 subnets, 2 network interfaces

Priority

Name

[Home](#) > [Virtual machines](#) > [az104-06-vm0 | Networking](#) > [az104-06-nic0](#)



## az104-06-nic0 | IP configurations

Network interface

[Add](#)[Save](#)[Discard](#)[Refresh](#)[Overview](#)[Activity log](#)[Access control \(IAM\)](#)[Tags](#)

### Settings

[IP configurations](#)[DNS servers](#)[Network security group](#)[Properties](#)[Locks](#)

IP forwarding settings

IP forwarding

Disabled **Enabled**

Virtual network

az104-06-vnet01

IP configurations

Subnet \*

subnet0 (10.60.0.0/24)

Name	IP Version	Type	Private IP address	Public IP address	
ipconfig1	IPv4	Primary	10.60.0.4 (Dynamic)	-	...

az104-06-vm0 | Run command

Virtual machine

Search

Backup

Disaster recovery

Updates

Inventory

Change tracking

Automanage

Configuration management (Preview)

Policies

Run command

Monitoring

Insights

Alerts

Metrics

Diagnostic settings

Logs

Connection monitor (classic)

Workbooks

Automation

Tasks (preview)

Export template

Help

Resource health

Run Command uses the VM agent to let you run a script inside this virtual machine. This can be helpful for troubleshooting and recovery, and for general machine an

Name	Description
RunPowerShellScript	Executes a PowerShell script
DisableNLA	Disable Network Level Authentication
DisableWindowsUpdate	Disable Windows Update Automatic Updates
EnableAdminAccount	Enable administrator account
EnableEMS	Enable EMS
EnableRemotePS	Enable remote PowerShell
EnableWindowsUpdate	Enable Windows Update Automatic Updates
IPConfig	List IP configuration
RDPSettings	Verify RDP Listener Settings
ResetRDPcert	Restore RDP Authentication mode to defaults
SetRDPport	Set Remote Desktop port

RunPowerShellScript

Script execution complete

PowerShell Script

1 Install-WindowsFeature RemoteAccess -IncludeManagementTools

Run

Output

Success	Restart Needed	Exit Code	Feature Result
True	No	Success	(Remote Access)

az104-06-vm0 | Run command

Virtual machine

Search

Backup

Disaster recovery

Updates

Inventory

Change tracking

Automanage

Configuration management (Preview)

Policies

Run command

Monitoring

Insights

Alerts

Metrics

Diagnostic settings

Logs

Connection monitor (classic)

Workbooks

Automation

Tasks (preview)

Export template

Help

Resource health

Run Command uses the VM agent to let you run a script inside this virtual machine. This can be helpful for troubleshooting and recovery, and for general machine an

Name	Description
RunPowerShellScript	Executes a PowerShell script
DisableNLA	Disable Network Level Authentication
DisableWindowsUpdate	Disable Windows Update Automatic Updates
EnableAdminAccount	Enable administrator account
EnableEMS	Enable EMS
EnableRemotePS	Enable remote PowerShell
EnableWindowsUpdate	Enable Windows Update Automatic Updates
IPConfig	List IP configuration
RDPSettings	Verify RDP Listener Settings
ResetRDPcert	Restore RDP Authentication mode to defaults
SetRDPport	Set Remote Desktop port

Run Command Script

RunPowerShellScript

Script execution complete

PowerShell Script

1 Install-WindowsFeature -Name Routing -IncludeManagementTools -IncludeAllSubFeature

2

3 Install-WindowsFeature -Name "RSAT-RemoteAccess-Powershell"

4

5 Install-RemoteAccess -VpnType RoutingOnly

6


7 Get-NetAdapter | Set-NetIPInterface -Forwarding Enabled

Run

Output

Success	Restart Needed	Exit Code	Feature Result
True	No	Success	(BAS Connection Manager Administration Kit...
True	No	NoChangeNeeded {}	

## Create Route table ...

 Validation Passed

Basics Tags Review + create

### TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

### Basics

Subscription	Azure for Students
Resource group	az104-06-rg1
Region	East US
Name	az104-06-rt23
Propagate gateway routes	No

Create

< Previous

Next

[Download a template for automation](#)

Home >

Microsoft.RouteTable-20221103230731 | Overview

Deployment

Search

DeleteCancelReplayDownloadRefresh

Overview

Inputs

Outputs

Template

✔ Your deployment is complete

Deployment name: Microsoft.RouteTable-20221103230731

Subscription: Azure for Students

Resource group: az104-06-rg1

Start time: 11/3/2022 11:00:01 PM

Correlation ID: bc97711b-b050-4d0b-b05a-9d4ef05870de

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Deployment succeeded

Deployment 'Microsoft.RouteTable-20221103230731' in resource group 'az104-06-rg1' was successful.

Pin to dashboardGo to resource group

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Home > Microsoft.RouteTable-20221103230731 | Overview > az104-06-rt23

az104-06-rt23 | Routes

Route table

Search

+ AddRefreshGive feedback

Search routes

Name	Address prefix	Next hop type
No results.		

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Routes

Subnets

Properties

Locks

Monitoring

Alerts

Automation

Tasks (runbooks)

Export template

Help

Effective routes

New Support Request

Add route

az104-06-rt23

Route name \*

az104-06-route-mnet-to-vnet3

Address prefix/destination \*

IP Addresses

Destination IP addresses/CIDR ranges \*

10.83.0.0/20

Next hop type \*

Virtual appliance

Next hop address \*

10.83.0.6

Ensure you have IP forwarding enabled on your virtual appliance. You can enable this by navigating to the respective network interface's IP address settings.

Add



Home > Microsoft.RouteTable-20221103031827 | Overview > az104-06-rt23

az104-06-rt23 | Subnets

Route table

Search

Associate

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Routes

Subnets

Properties

Locks

Monitoring

Alerts

Automation

Tasks (preview)

Export template

Help

Effective routes

New Support Request

Search subnets

Name	Address range	Virtual network
No results.		

Associate subnet

az104-06-rt23

Virtual network

az104-06-vnet02

Subnet

subnet0

OK

## Create Route table ...

✓ Validation Passed

Basics   Tags   Review + create

### TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

### Basics

Subscription	Azure for Students
Resource group	az104-06-rg1
Region	East US
Name	az104-06-rt32
Propagate gateway routes	No

Create

< Previous

Next >

[Download a template for automation](#)

Home / Microsoft.RouteTable-20221103232330 / Overview / az104-06-rt32

az104-06-rt32 | Routes

Route table

Search

+ Add Refresh Give feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Routes

Subnets

Properties

Locks

Monitoring

Alerts

Automation

Tasks (preview)

Export template

Help

Effective routes

New Support Request

Search routes

Name	Address prefix	Next hop type
No results.		

add route

az104-06-rt32

Route name \*

az104-06-route-vnet3-to-vnet2

Address prefix destination \*

IP Address

Destination IP addresses/CGR ranges \*

10.82.0.0/20

Next hop type \*

Virtual appliance

Next hop address \*

10.80.0.4

Ensure you have IP forwarding enabled on your virtual appliance. You can enable this by navigating to the respective network interface's IP address settings.

Add

Home / Microsoft.RouteTable-20221103232330 / Overview / az104-06-rt32

az104-06-rt32 | Subnets

Route table

Search

+ Associate

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Routes

Subnets

Properties

Locks

Monitoring

Alerts

Automation

Tasks (preview)

Export template

Help

Effective routes

New Support Request

Search subnets

Name	Address range	Virtual network
No results.		

Associate subnet

az104-06-rt32

Virtual network \*

az104-06-vnet3

Subnet \*

subnet0

OK

Network Watcher | Connection troubleshoot

Microsoft

- Overview
- Get started

Monitoring

- Topology
- Connection monitor (classic)
- Network Performance Monitor

Network diagnostic tools

- IP flow verify
- NSG diagnostics
- Next hop
- Effective security rules
- VPN troubleshoot
- Packet capture
- Connection troubleshoot

Metrics

- Usage + quota

Logs

- NSG flow logs
- Diagnostics logs
- Traffic Analytics

azure-vm-students

Resource group \*

act104-08-rg1

Source type \*

Virtual machine

\*Virtual machine

act104-08-vm3

Destination

Select a virtual machine Specify manually

URI, FQDN or IP address \*

10.62.0.4

Probe Settings

Protocol: ☐ HTTP ☒ ICMP

Destination port # ☐

3389

Advanced settings

Check

Status

Reachable

Agent extension version

1.4

Source virtual machine

act104-08-vm3

Grid view

Topology view

Hops

Name	IP address	Status	Next hop IP address	RTT
act104-08-vm3	10.62.0.4	Reachable	10.60.0.4	-
act104-08-nic0	10.62.0.4	Reachable	10.62.0.4	-
act104-08-nic2	10.62.0.4	Reachable	-	-

Average Latency in milliseconds

## Create load balancer ...

**Basics** Frontend IP configuration Backend pools Inbound rules Outbound rules Tags Review + create

Azure load balancer is a layer 4 load balancer that distributes incoming traffic among healthy virtual machine instances. Load balancers uses a hash-based distribution algorithm. By default, it uses a 5-tuple (source IP, source port, destination IP, destination port, protocol type) hash to map traffic to available servers. Load balancers can either be internet-facing where it is accessible via public IP addresses, or internal where it is only accessible from a virtual network. Azure load balancers also support Network Address Translation (NAT) to route traffic between public and private IP addresses. [Learn more.](#)

### Project details

Subscription *	<div>Azure for Students</div>
Resource group *	<div>az104-06-rg1</div> <div>Create new</div>

### Instance details

Name *	<div>az104-06-lb4</div>
Region *	<div>East US</div>
SKU * ⓘ	<div><div><input checked="" type="radio"/> Standard</div><div><input type="radio"/> Gateway</div><div><input type="radio"/> Basic</div></div> <div><div>Microsoft recommends Standard SKU load balancer for production workloads. <a href="#">Learn more about pricing differences between Standard and Basic SKU</a></div></div>
Type * ⓘ	<div><div><input checked="" type="radio"/> Public</div><div><input type="radio"/> Internal</div></div>
Tier *	<div><div><input checked="" type="radio"/> Regional</div><div><input type="radio"/> Global</div></div>

Review + create

< Previous

Next : Frontend IP configuration >

[Download a template for automation](#) [Give feedback](#)

## Create load balancer

Basics Frontend IP configuration Backend pools Inbound rules Outbound rules Tags Review > create

A frontend IP configuration is an IP address used for inbound and/or outbound communication as defined within load balancing, inbound NAT, and outbound rules.

+ Add a frontend IP configuration

Name *IP\_1* IP address *IP\_1*

Add a frontend IP to get started

### Add frontend IP configuration

Name \*

IP version ☒ IPv4 ☐ IPv6

IP type ☒ IP address ☐ IP prefix

Public IP address \*

[Choose public IP address](#)

[Create new](#)

**Add a public IP address**

Name \*

SKU ☐ Basic ☒ Standard

Tier ☒ Regional ☐ Global

Assignment ☐ Dynamic ☒ Static

Availability zone \*

Add

## Add IP configurations to backend pool

ⓘ IP configurations associated to virtual machines and virtual machine scale sets must be in same location as the load balancer and be in the same virtual network.

Location : eastus

Virtual network : az104-06-vnet01

 Add filter

☐ Show resources that are not available for selection

Resource Name	Resource group	Type	IP configuration	IP Address	Availability set	Tags
Virtual machine (2)						
<input checked="" type="checkbox"/> az104-06-vm0	az104-06-rg1	Virtual machine	ipconfig1	10.60.0.4	-	-
<input checked="" type="checkbox"/> az104-06-vm1	az104-06-rg1	Virtual machine	ipconfig1	10.60.1.4	-	-

Add

Cancel

 Give feedback

## Add backend pool ...

Name \*

az104-06lb4-be1

Virtual network ⓘ

az104-06-vnet01 (az104-06-rg1) ▾

Backend Pool Configuration

☒ NIC

☐ IP address

### IP configurations

IP configurations associated to virtual machines and virtual machine scale sets must be in same location as the load balancer and be in the same virtual network.

[+ Add](#) | [✕ Remove](#)

<input type="checkbox"/>	Resource Na...	Resource gro...	Type	IP configurat...	IP Address	Availability ...	
<input type="checkbox"/>	az104-06-vm0	az104-06-rg1	Virtual machine	ipconfig1	10.60.0.4	-	
<input type="checkbox"/>	az104-06-vm1	az104-06-rg1	Virtual machine	ipconfig1	10.60.1.4	-	



Create load balancer

Basics Frontend IP configuration Backend pools Inbound rules Outbound rules Tags Review + create

Load balancing rule

A load balancing rule distributes incoming traffic that is sent to a selected IP address and port combination across a group of backend pool instances. The load balancing rule uses a health probe to determine which backend instances are eligible to receive traffic.

+ Add a load balancing rule

Name <i>T<sub>1</sub></i>	Frontend IP configuration <i>T<sub>1</sub></i>	Backend pool <i>T<sub>1</sub></i>	Health probe <i>T<sub>1</sub></i>	Frontend Port <i>T<sub>1</sub></i>
Add a rule to get started				

Inbound NAT rule

An inbound NAT rule forwards incoming traffic sent to a selected IP address and port combination to a specific virtual machine.

+ Add an inbound nat rule

Name <i>T<sub>1</sub></i>	Frontend IP configuration <i>T<sub>1</sub></i>	Service <i>T<sub>1</sub></i>	Target <i>T<sub>1</sub></i>	Frontend Port
Add a rule to get started				

Add load balancing rule

Add health probe

Health probes are used to check the status of a backend pool instance. If the health probe fails to get a response from a backend instance then no new connections will be sent to that backend instance until the health probe succeeds again.

Name *	10104-05-bal-tp1
Protocol *	TCP
Port *	80
Interval *	5 seconds
Used by	Not used
<button>OK</button> <button>Cancel</button>	

Configure rules

Session persistence	None
Idle timeout (minutes)	4
TCP reset	Disabled
Floating IP	Disabled

Add

## Add load balancing rule



Name \*

az104-06-lb4-lbrule1



IP Version \*



IPv4



IPv6

Frontend IP address \* ⓘ

az104-06-pip4 (To be created)



Backend pool \* ⓘ

az104-06lb4-be1



Protocol \*



TCP



UDP

Port \*

80



Backend port \* ⓘ

80



Health probe \* ⓘ

(new) az104-06-lb4-hp1



[Create new](#)

Session persistence ⓘ

None



Idle timeout (minutes) \* ⓘ



4

TCP reset



Disabled



Enabled

Floating IP ⓘ



Disabled



Enabled

Outbound source network address translation (SNAT) ⓘ



(Recommended) Use outbound rules to provide backend pool members access to the internet. [Learn more](#)



Use default outbound access. This is not recommended because it can cause SNAT port exhaustion. [Learn more](#)

Add

# Create load balancer ...

✓ Validation passed

Basics Frontend IP configuration Backend pools Inbound rules Outbound rules Tags Review + create

## Basics

Subscription	Azure for Students
Resource group	az104-06-rg1
Name	az104-06-lb4
Region	East US
SKU	Standard
Tier	Regional
Type	Public

## Frontend IP configuration

Frontend IP configuration name	az104-06-pip4
Frontend IP configuration IP address	To be created

## Backend pools

Backend pool name	az104-06lb4-be1
-------------------	-----------------

## Inbound rules

Load balancing rule name	az104-06-lb4-lbrule1
Health probe name	az104-06-lb4-hp1

## Outbound rules

None

## Tags

None

Create

< Previous

Next >

Download a template for automation  Give feedback

Home >



## Microsoft.LoadBalancer-20221103233001 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

### ✓ Your deployment is complete

Deployment name: Microsoft.LoadBalancer-20221103233001  
Subscription: Azure for Students  
Resource group: az104-06-rg1

Start time: 11/3/2022, 11:41:26 PM

Correlation ID: cc990862-8975-4111-9bf7-eeaac98e20aa

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Home > Microsoft.LoadBalancer-20221103233001 | Overview > az104-06-lb4

## az104-06-lb4 | Frontend IP configuration

Load balancer

Search

+ Add Refresh Give feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Frontend IP configuration

Backend pools

Health probes

Load balancing rules

Inbound NAT rules

Outbound rules

Properties

Locks

Monitoring

Filter by name...

Name

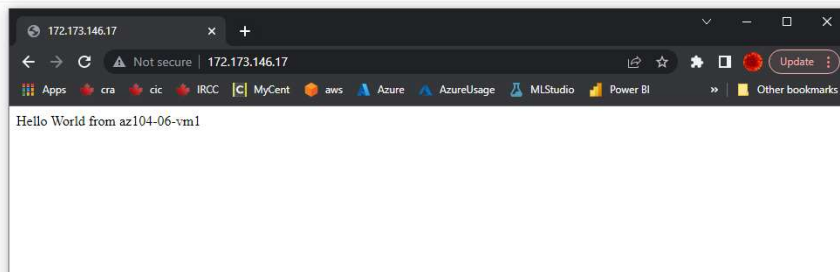
IP address

Rules count

az104-06-pip4

172.173.146.17 (az104-06-pip4)

1



Home > Virtual networks > az104-06-vnet01

Virtual networks

Centralized College (CentralizedCollegeEDU)compor...

+ Create Manage view...

Filter for any field...

Name ↑

az104-06-vnet01

az104-06-vnet02

az104-06-vnet03

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Address space

Connected devices

Subnets

Bastion

DDoS protection

Firewall

Microsoft Defender for Cloud

Network manager

DNS servers

Peering

Service endpoints

Private endpoints

Properties

Links

Monitoring

Alerts

Metrics

Diagnostic settings

Logs

Connection monitor (classic)

Diagram

Automation

Tests (preview)

Export template

Page 1 of 1

az104-06-vnet01 | Subnets

Virtual network

+ Subnet + Gateway subnet Refresh Manage users Delete

Search subnets

Name ↑	IPv4 ↑	IPv6 ↑	Available IPs ↑	Delegated to ↑
subnet0	10.60.0.0/24	-	250	-
subnet1	10.60.1.0/24	-	250	-

Add subnet

Name \*  
subnet-appgw

Subnet address range \*  
10.60.3.224/27 10.60.3.224 - 10.60.3.255 (27 = 6 Azure reserved addresses)

☐ Add IPv6 address space

NAT gateway  
None

Network security group  
None

Route table  
None

SERVICE ENDPOINTS  
Create service endpoint policies to allow traffic to specific Azure resources from your virtual network over service endpoints. [Learn more](#)  
Services  
Selected

SUBNET DELEGATION  
Delegate subnet to a service  
None

NETWORK POLICY FOR PRIVATE ENDPOINTS  
The network policy affects all private endpoints in this subnet. Select the types of network policies that control traffic going to the private endpoints in this subnet. [Learn more](#)  
Private endpoint network policy  
Selected

Save Cancel

az104-06-vnet01 | Subnets

Virtual network

+ Subnet + Gateway subnet Refresh Manage users Delete

Search subnets

Name ↑	IPv4 ↑	IPv6 ↑	Available IPs ↑	Delegated to ↑
subnet0	10.60.0.0/24	-	250	-
subnet1	10.60.1.0/24	-	250	-
subnet-appgw	10.60.3.224/27	-	27	-

## Create application gateway ...

1 Basics 2 Frontends 3 Backends 4 Configuration 5 Tags 6 Review + create

An application gateway is a web traffic load balancer that enables you to manage traffic to your web application. [Learn more about application gateway](#)

### Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	<div>Azure for Students</div>
Resource group *	<div>az104-06-rg1</div> <div>Create new</div>

### Instance details

Application gateway name *	<div>az104-06-appgw5</div>
Region *	<div>East US</div>
Tier	<div>Standard V2</div>
Enable autoscaling	<div><input type="radio"/> Yes <input checked="" type="radio"/> No</div>
Instance count	<div>2</div>
Availability zone	<div>None</div>
HTTP2	<div><input checked="" type="radio"/> Disabled <input type="radio"/> Enabled</div>

### Configure virtual network

Virtual network *	<div>az104-06-vnet01</div> <div>Create new</div>
Subnet *	<div>subnet-appgw (10.60.3.224/27)</div> <div>Manage subnet configuration</div>

Previous

Next : Frontends >

# Create application gateway

- ✓ Basics
- 2 Frontends**
- 3 Backends
- 4 Configuration
- 5 Tags
- 6 Review + create

Traffic enters the application gateway via its frontend IP address(es). An application gateway can use a public IP address, private IP address, or one of each type.

Frontend IP address type ⓘ ☒ Public ☐ Private ☐ Both

Public IP address \* 

Choose public IP address

Add new

Add a public IP

Name \*

az104-06-pip5 ✓

SKU

☐ Basic ☒ Standard

Assignment

☐ Dynamic ☒ Static

Availability zone

None

OK

Cancel

## Create application gateway

- ✓ Basics
- ✓ Frontends
- 3 Backends**
- 4 Configuration
- 5 Tags
- 6 Review + create

A backend pool is a collection of resources to which your application gateway can send traffic. A backend pool can contain virtual machines, virtual machine scale sets, app services, IP addresses, or fully qualified domain names (FQDN).

Add a backend pool

Backend pool	Targets
No results	

Add a backend pool.

A backend pool is a collection of resources to which your application gateway can send traffic. A backend pool can contain virtual machines, virtual machine scale sets, IP addresses, domain names, or an App Service.

Name \*

az104-06-ecppip5-set ✓

Add backend pool without targets

☐ Yes ☒ No

Backend targets

2 items

Target type	Target
IP address or FQDN	10.62.0.4
IP address or FQDN	10.63.0.4 ✓
IP address or FQDN	

Add

Cancel

## Create application gateway

✓ Basics   ✓ Frontends   **3 Backends**   4 Configuration   5 Tags   6 Review + create

A backend pool is a collection of resources to which your application gateway can send traffic. A backend pool can contain virtual machines, virtual machine scale sets, app services, IP addresses, or fully qualified domain names (FQDN).

Add a backend pool

Backend pool	Targets	
az104-06-appgw5-be1	> 2 targets	...

### Add a routing rule



Configure a routing rule to send traffic from a given frontend IP address to one or more backend targets. A routing rule must contain a listener and at least one backend target.

Rule name \*  ✓

Priority \* ⓘ  ✓

\* Listener   \* Backend targets

A listener "listens" on a specified port and IP address for traffic that uses a specified protocol. If the listener criteria are met, the application gateway will apply this routing rule.

Listener name \* ⓘ  ✓

Frontend IP \* ⓘ  ✓

Protocol ⓘ ☒ HTTP   ☐ HTTPS

Port \* ⓘ  ✓

Additional settings

Listener type ⓘ ☒ Basic   ☐ Multi site

Error page url ☐ Yes   ☒ No



## Add Backend setting



[← Discard changes and go back to routing rules](#)

Backend settings name *	<input type="text" value="az104-06-appgw5-http1"/> ✓
Backend protocol	<input checked="" type="radio"/> HTTP <input type="radio"/> HTTPS
Backend port *	<input type="text" value="80"/>
Additional settings	
Cookie-based affinity ⓘ	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Connection draining ⓘ	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Request time-out (seconds) * ⓘ	<input type="text" value="20"/>
Override backend path ⓘ	<input type="text"/>

### Host name

By default, Application Gateway does not change the incoming HTTP host header from the client and sends the header unaltered to the backend. Multi-tenant services like App service or API management rely on a specific host header or SNI extension to resolve to the correct endpoint. Change these settings to overwrite the incoming HTTP host header.

	<input type="button" value="Yes"/> <input checked="" type="button" value="No"/>
Override with new host name	<input type="radio"/> Pick host name from backend target
	<input checked="" type="radio"/> Override with specific domain name
Host name override	
Host name	<input type="text" value="e.g. contoso.com"/>
	<input type="button" value="Yes"/> <input type="button" value="No"/>
Create custom probes	

[Home](#) > [Load balancing](#) > [Application Gateway](#)

### Create application gateway

✓ Basics ✓ Frontends ✓ Backends **Configuration** ⓘ Tags ⓘ Review & create

Create routing rules that link your frontend(s) and backend(s). You can also add more backend pools, add a second frontend IP configuration if you haven't already, or edit previous configurations.

**Frontends**  
+ Add a frontend IP  
Public (vnet) az104-06-pip5 ⓘ

**Routing rules**  
+ Add a routing rule  
az104-06-appgw5-r11  
Manage Backend settings ⓘ

**Backend pools**  
+ Add a backend pool  
az104-06-appgw5-bw1 ⓘ

## Create application gateway

✓ Validation passed

✓ Basics ✓ Frontends ✓ Backends ✓ Configuration ✓ Tags **6 Review + create**

### Basics

Subscription	Azure for Students
Resource group	az104-06-rg1
Name	az104-06-appgw5
Region	East US
Tier	Standard_v2
Enable autoscaling	Disabled
Instance count	2
Availability zone	None
HTTP2	Disabled
Virtual network	az104-06-vnet01
Subnet	subnet-appgw (10.60.3.224/27)
Subnet address space	10.60.3.224/27

### Frontends

Public IP address name	az104-06-pip5
SKU	Standard
Assignment	Static
Availability zone	None

### Tags

None

Create

Previous

Next

[Download a template for automation](#)

Home > Microsoft.ApplicationGateway-20221103234829 | Overview

Deployment

Search

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: Microsoft.ApplicationGateway-20221103234829 Start time: 11/3/2022, 11:59:33 PM  
Subscription: Azure for Students Correlation ID: 39747545-f1d3-4b5a-a7b2-cdbd0377a2b2

Deployment details

Next steps

Go to resource group

Give feedback

Tell us about your experience with deployment.

Notifications

More events in the activity log > Dismiss all

- Deployment succeeded  
Deployment 'Microsoft.ApplicationGateway-20221103234829' to resource group 'az104-06-rg1' was successful.  
Go to deployment Go to resource group  
a few seconds ago
- Successfully added subnet  
Successfully added subnet 'subnet-appgw' to virtual network 'az104-06-vnet01'.  
20 minutes ago
- Deployment succeeded  
Deployment 'Microsoft.LoadBalancer-20221103233007' to resource group 'az104-06-rg1' was successful.

Home > Microsoft.ApplicationGateway-20221103234829 | Overview

az104-06-appgw5 Application gateway

Search

Delete Refresh

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Web application firewall

Backend pools

Backend settings

Frontend IP configurations

Private link

SSL settings

Listeners

Essentials

Resource group (move) : az104-06-rg1

Location : East US

Subscription (move) : Azure for Students

Subscription ID : ac115940-0914-4629-90c5-323b8c283f7

Tags (edit) : Click here to add tags

Virtual network/subnet : az104-06-vnet01/subnet-1 Copied

Frontend public IP address : 20.163.220.249 (az104-06-eip01)

Frontend private IP address : -

Tier : Standard V2

Show data for last 1 hour 6 hours

Sum Total Requests

20.163.220.249

Not secure | 20.163.220.249

Apps cra clic IRCC c MyCent aws Azure AzureUsage MLStudio Power BI Other bookmarks

Hello World from az104-06-vm3

Home > Microsoft.ApplicationGateway-20221103234829 | Overview

az104-06-appgw5 Application gateway

Search

Delete Refresh

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Web application firewall

Backend pools

Backend settings

Frontend IP configurations

Private link

SSL settings

Listeners

Rules

Rewrites

Health probes

Properties

Locks

Monitoring

Alerts

Metrics

Diagnostic settings

Logs

Insights

Backend health

Connection troubleshoot

Automation

Tasks (preview)

Export template

Essentials

Resource group (move) : az104-06-rg1

Location : East US

Subscription (move) : Azure for Students

Subscription ID : ac115940-0914-4629-90c5-323b8c283f7

Tags (edit) : Click here to add tags

Virtual network/subnet : az104-06-vnet01/subnet-1 Copied

Frontend public IP address : 20.163.220.249 (az104-06-eip01)

Frontend private IP address : -

Tier : Standard V2

Show data for last 1 hour 6 hours 12 hours 1 day 7 days 30 days

Sum Total Requests

Sum Failed Requests

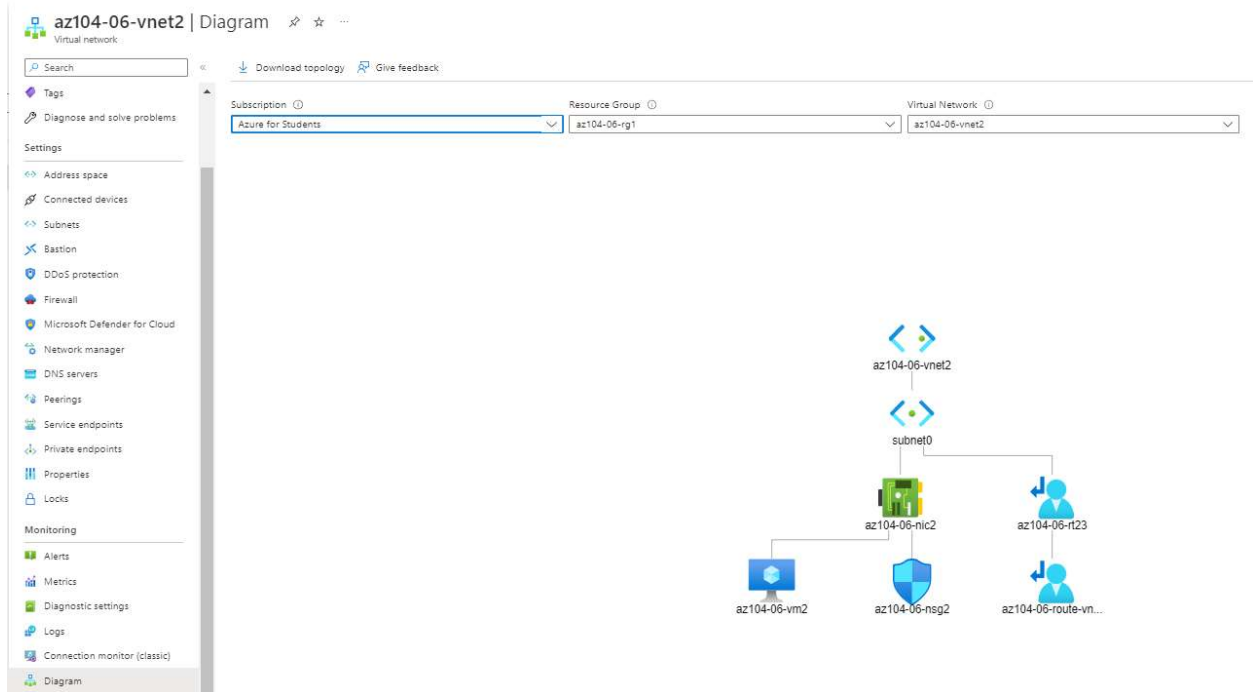
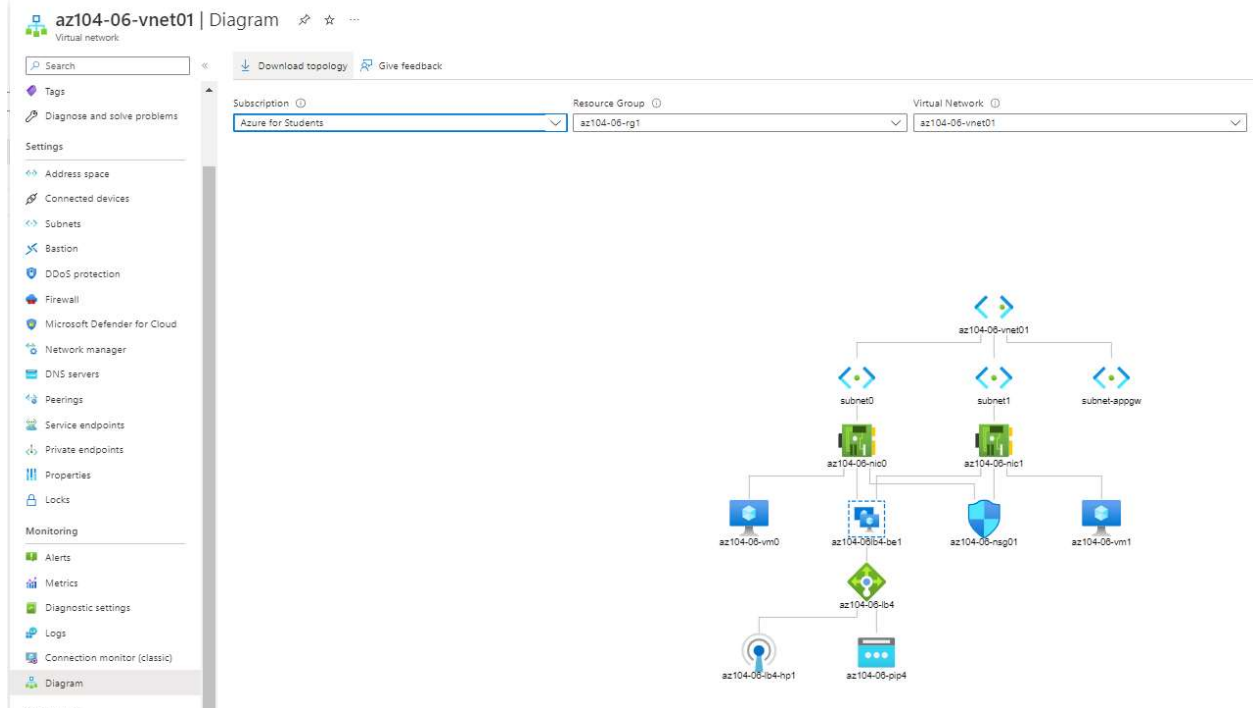
Sum Response Status by HttpStatus

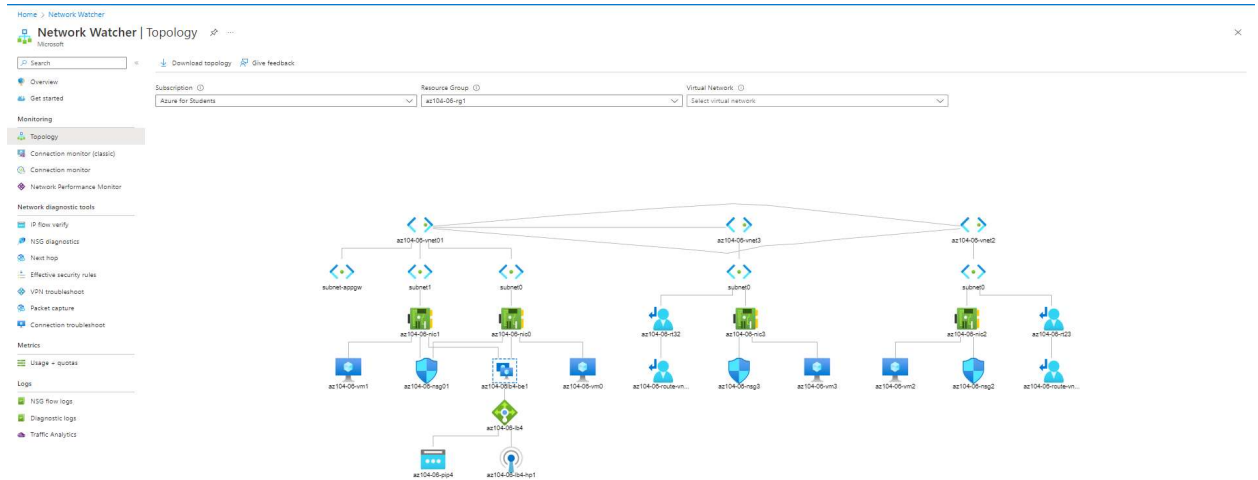
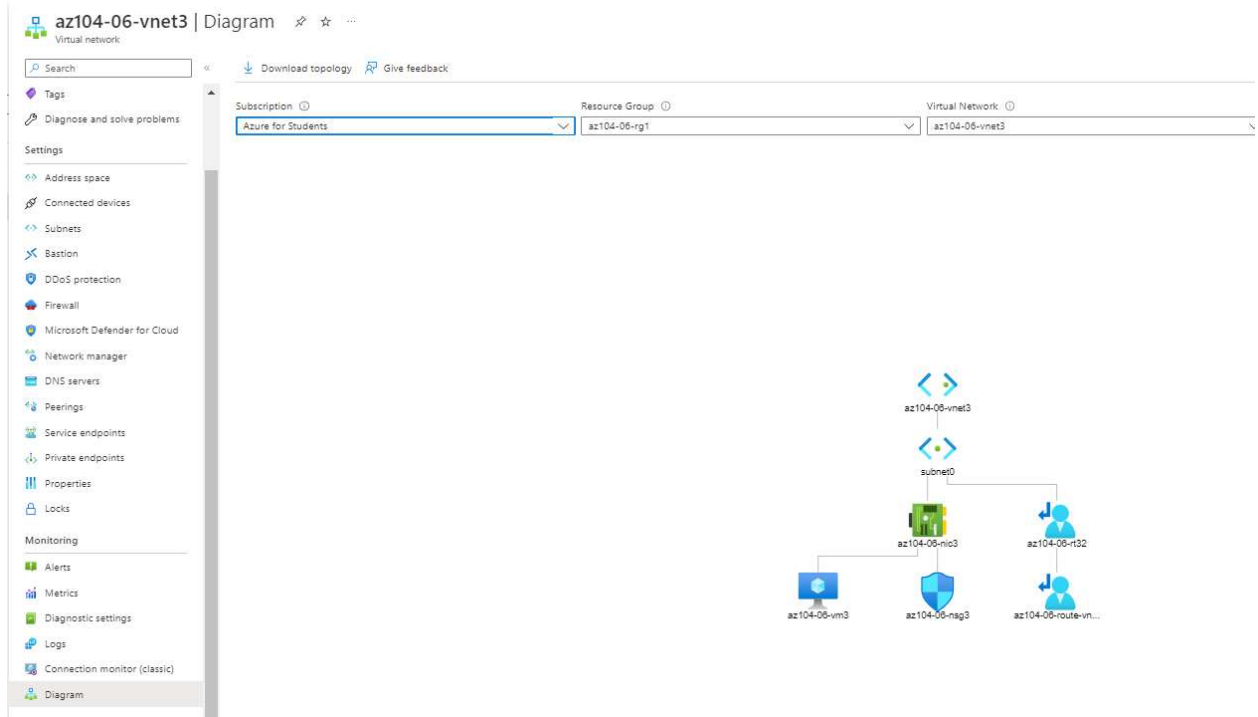
Sum Throughput

Sum CurrentConnections

Avg Healthy Host Count By BackendPool HttpSettings

Avg Unhealthy Host Count By BackendPool HttpSettings





- Overview
- Activity log
- Access control (IAM)
- Tags
- Resource visualizer
- Events
- Settings
- Deployments
- Security
- Policies
- Properties
- Locks
- Cost Management
- Cost analysis
- Cost alerts (preview)
- Budgets
- Advisor recommendations
- Monitoring
- Insights (preview)
- Alerts
- Metrics
- Diagnostic settings
- Logs
- Advisor recommendations
- Workbooks
- Automation
- Export template
- Help
- New Support Request

