

Home >

All resources

Centennial College (CentennialCollegeDU.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

Unsecure resources Recommendations

No grouping List view

Name	Type	Resource group	Location	Subscription
------	------	----------------	----------	--------------



No resources match your filters

Try changing or clearing your filters.

[Clear filters](#)

[Learn more](#)

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

ResourceGroupName : az104-06-rg1
Location           : eastus
ProvisioningState  : Succeeded
Tags              :
ResourceId         : /subscriptions/ae594e61-d56d-4c68-8a68-49a6291e74c2/resourceGroups/az104-06-rg1

PS /home/ayse> New-AzResourceGroupDeployment `
>> -ResourceGroupName $rgName `
>> -TemplateFile $HOME/az104-06-vms-loop-template.json `
>> -TemplateParameterFile $HOME/az104-06-vms-loop-parameters.json
New-AzResourceGroupDeployment: Cannot retrieve the dynamic parameters for the cmdlet. Cannot find path '/home/ayse/az104-06-vms-loop-template.json' because it does not exist.
PS /home/ayse> New-AzResourceGroupDeployment `
>> -ResourceGroupName $rgName `
>> -TemplateFile $HOME/az104-06-vms-loop-template.json `
>> -TemplateParameterFile $HOME/az104-06-vms-loop-parameters.json
]
```

```

PS /home/ayse> New-AzResourceGroupDeployment
>> -ResourceGroupName $rgName
>> -TemplateFile $HOME/az104-06-vm-loop-template.json
>> -TemplateParameterFile $HOME/az104-06-vm-loop-parameters.json

DeploymentName      : az104-06-vm-loop-template
ResourceGroupName  : az104-06-rg1
ProvisioningState   : Succeeded
Timestamp          : 11/4/2022 7:00:49 PM
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 :

```

PS /home/ayse>

Home > All resources

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

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

0 Unsecure resources 0 Recommendations

Name ↑	Type ↑	Resource group ↑	Location ↑	Subscription ↑
az104-06-nic0	Network Interface	az104-06-rg1	East US	Azure for Students
az104-06-nic1	Network Interface	az104-06-rg1	East US	Azure for Students
az104-06-nic2	Network Interface	az104-06-rg1	East US	Azure for Students
az104-06-nic3	Network Interface	az104-06-rg1	East US	Azure for Students
az104-06-nsg01	Network security group	az104-06-rg1	East US	Azure for Students
az104-06-nsg2	Network security group	az104-06-rg1	East US	Azure for Students
az104-06-nsg3	Network security group	az104-06-rg1	East US	Azure for Students
az104-06-vm0	Virtual machine	az104-06-rg1	East US	Azure for Students
az104-06-vm0_OsDisk_1_0e3a0eff1694ca1b0a55d08d37e2a	Disk	AZ104-06-RG1	East US	Azure for Students
az104-06-vm1	Virtual machine	az104-06-rg1	East US	Azure for Students
az104-06-vm1_Disk1_7a687f6c57d9547d9504cd17370722a	Disk	AZ104-06-RG1	East US	Azure for Students
az104-06-vm2	Virtual machine	az104-06-rg1	East US	Azure for Students
az104-06-vm2_Disk1_5647f93e115947d86dbd01330e66c	Disk	AZ104-06-RG1	East US	Azure for Students
az104-06-vm3	Virtual machine	az104-06-rg1	East US	Azure for Students
az104-06-vm3_Disk1_e91f9b3fe79347d95e9002234e9d09f	Disk	AZ104-06-RG1	East US	Azure for Students
az104-06-vnet01	Virtual network	az104-06-rg1	East US	Azure for Students
az104-06-vnet02	Virtual network	az104-06-rg1	East US	Azure for Students
az104-06-vnet03	Virtual network	az104-06-rg1	East US	Azure for Students
NetworkWatcher_public	Network Watcher	NetworkWatcherRG	East US	Azure for Students

Task 2 hub and spoke network topology

Home > az104-06-vnet01

az104-06-vnet01 | Peerings

Virtual network

Search

+ Add Refresh Sync

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

Peerings

Service endpoints

Private endpoints

Properties

Locks

Filter by name...

Peering status == all

<input type="checkbox"/>	Name ↑↓	Peering status ↑↓	Peer ↑↓	Gateway transit ↑↓	
<input type="checkbox"/>	az104-06-vnet01_to_az104-0...	Connected	az104-06-vnet2	Disabled	...
<input type="checkbox"/>	az104-06-vnet1_to_az104-06...	Connected	az104-06-vnet3	Disabled	...

Task3 test transitivity of virtual network peering

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**

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	Unreachable	10.63.0.4	-
Destination (10...	10.63.0.4	Success	-	-

Probes Sent
30

Probes Failed
30

Task 4 configure routing in the hub and spoke topology

Run Command Script



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}
```

Run Command Script

RunPowerShellScript

 Script execution complete

PowerShell Script

```
1 Install-WindowsFeature -Name Routing -IncludeManagementTools -IncludeAllSubFeatu
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      {RAS Connection Manager Administration Kit...
True     No                NoChangeNeeded {}
```

Home > MicrosoftRouteTable-20221104162340 | Overview > az104-06-rt23

 **az104-06-rt23** | Routes ☆ ...
Route table

< + Add Refresh Give feedback

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

Settings

Configuration
Routes
Subnets

Name ↑↓	Address prefix ↑↓	Next hop type ↑↓
az104-06-route-vnet2-to-vnet3	10.63.0.0/20	VirtualAppliance

Home >



Microsoft.RouteTable-20221104163152 | Overview

Deployment

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: Microsoft.RouteTable-20221104163152
Subscription: [Azure for Students](#)
Resource group: [az104-06-rg1](#)

Start time: 11/4/2022, 4:33:05 PM

Correlation ID: [8812776d-bb0a-417c-aec3-0f1a48681028](#)

Deployment details

Next steps

[Go to resource](#)

Give feedback

[Tell us about your experience with deployment](#)

Home > Network Watcher

Network Watcher | Connection troubleshoot

Microsoft

Advanced settings

Check

Status

✓ Reachable

Agent extension version

1.4

Source virtual machine

[az104-06-vm3](#)

Grid view Topology view

Hops

Name	IP address	Status	Next hop IP address	RTT
az104-06-vm3	10.63.0.4	✓	10.60.0.4	-
az104-06-nic0	10.60.0.4	✓	10.62.0.4	-
az104-06-nic2	10.62.0.4	✓	-	-

Average Latency in milliseconds

3

Minimum Latency in milliseconds

3

Task 5 implement Azure Load Balancer

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	az104-06-lb4-be1
-------------------	------------------

Inbound rules

Load balancing rule name	az104-06-lb4-lbrule1
--------------------------	----------------------

Create

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Next >

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

Home >

Microsoft.LoadBalancer-20221104170702 | Overview

Deployment

Overview

Inputs

Outputs

Template

Delete Cancel Redeploy Download Refresh

Your deployment is complete

Deployment name: Microsoft.LoadBalancer-20221104170702
Subscription: [Azure for Students](#)
Resource group: [az104-06-rg1](#)

Start time: 11/4/2022, 5:17:31 PM

Correlation ID: 4659a605-8238-4c4f-bae5-2381767a1f4e

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Home > MicrosoftLoadBalancer-20221104170702 | Overview > az104-06-lb4

az104-06-lb4 | Frontend IP configuration

Search

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

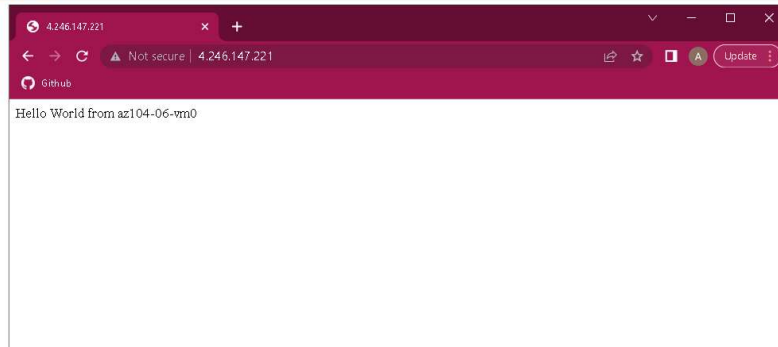
Properties

Locks

Monitoring

Filter by name...

Name	IP address	Rules count
az104-06-pip4	4.246.147.221 (az104-06-pip4)	1



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: (new) az104-06-pip5



Routing rules

+ Add a routing rule

az104-06-appgw5-rf1

Manage Backend settings



Backend pools

+ Add a backend pool

az104-06-appgw5-be1



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

Create

Previous

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Download a template for automation

Home >

Microsoft.ApplicationGateway-20221104173034 | Overview

Search

Delete

Cancel

Redeploy

Download

Refresh

Overview

- Inputs
- Outputs
- Template

Your deployment is complete

Deployment name: Microsoft.ApplicationGateway-20221104173034

Subscription: Azure for Students

Resource group: az104-06-rg1

Start time: 11/4/2022, 5:40:05 PM

Correlation ID: 47b06cea-9dca-45f8-894d-5c3d5e1e001e

Deployment details

Resource	Type	Status	Operation details
✓ az104-06-appgw5	Microsoft.Network/applicationGateways	OK	Operation details
✓ az104-06-pip5	Microsoft.Network/publicIPAddresses	OK	Operation details

Next steps

Go to resource group

Give feedback

Tell us about your experience with deployment

Home > Load balancing | Application Gateway

Load balancing | Application Gateway

Search

Create Manage view

Overview

Filter for any field...

Load Balancing Services

- Application Gateway
- Front Door and CDN profiles
- Load Balancer
- Traffic Manager

az104-06-appgw5

Overview

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

Essentials

- Resource group (move) az104-06-rg1
- Location East US
- Subscription (move) Azure for Students
- Subscription ID ae594e51-4564-4c68-8a68-49a5291c74c2

Virtual network/subnet az104-06-vnet01/subnet-az Copied

Frontend public IP address 20.169.140.116 (az104-06-plp5)

Frontend private IP address -

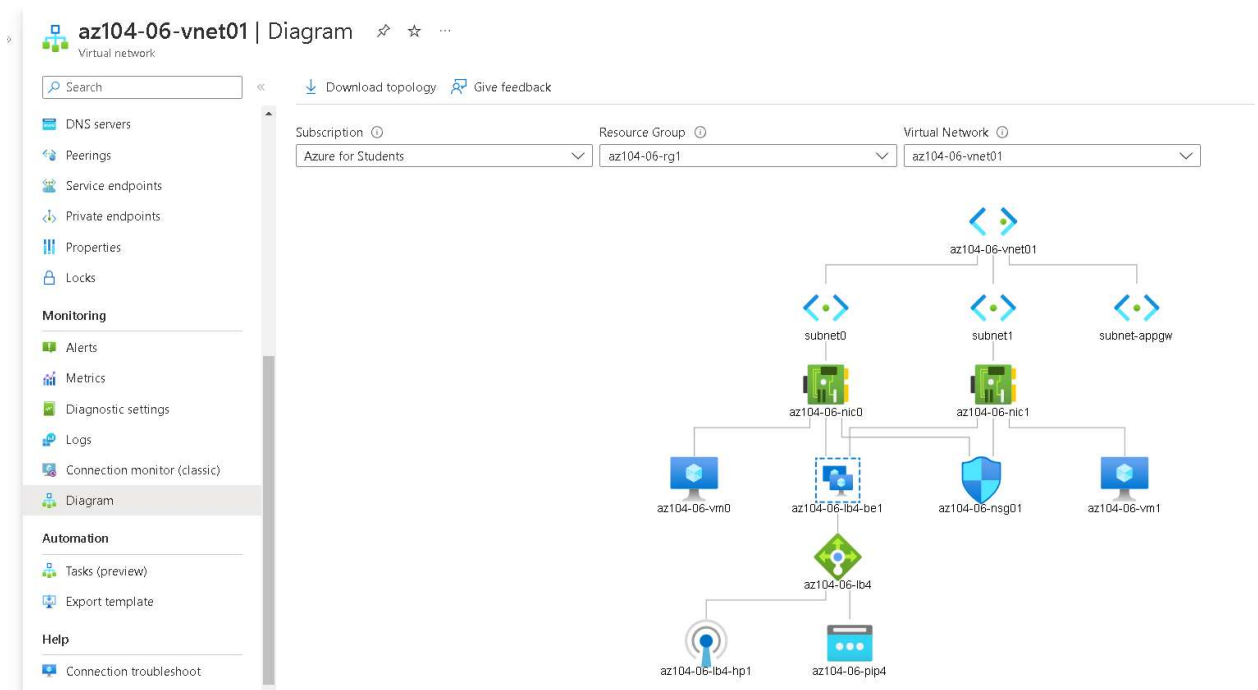
Tier Standard V2

20.169.140.116

Not secure | 20.169.140.116

Hello World from az104-06-vm3

12 hours 1 day 7 days 30 days



Home > Virtual networks > az104-06-vnet2

Virtual networks

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+ Create Manage view ...

Filter for any field...

Name ↑↓

- az104-06-vnet01
- az104-06-vnet2
- az104-06-vnet3

az104-06-vnet2 | Diagram

Virtual network

Search

Download topology

Give feedback

DNS servers

Peering

Service endpoints

Private endpoints

Properties

Locks

Monitoring

Alerts

Metrics

Dagnostic settings

Logs

Connection monitor (classic)

Diagram

Automation

Tasks (preview)

Export template

Help

Subscription

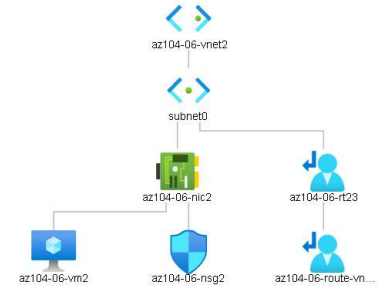
Azure for Students

Resource Group

az104-06-rg1

Virtual Network

az104-06-vnet2



Virtual networks

Centennial College (CentennialCollegeEDU.onmicr...

+ Create Manage view ...

Filter for any field...

Name ↑↓

- az104-06-vnet01
- az104-06-vnet2
- az104-06-vnet3

az104-06-vnet3 | Diagram

Virtual network

Search

Download topology

Give feedback

DNS servers

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Properties

Locks

Monitoring

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Metrics

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Connection monitor (classic)

Diagram

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Tasks (preview)

Export template

Help

Subscription

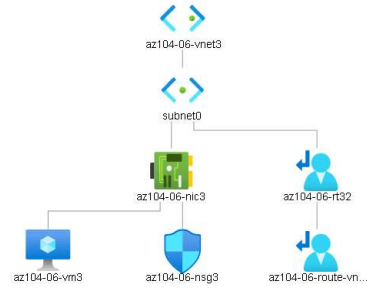
Azure for Students

Resource Group

az104-06-rg1

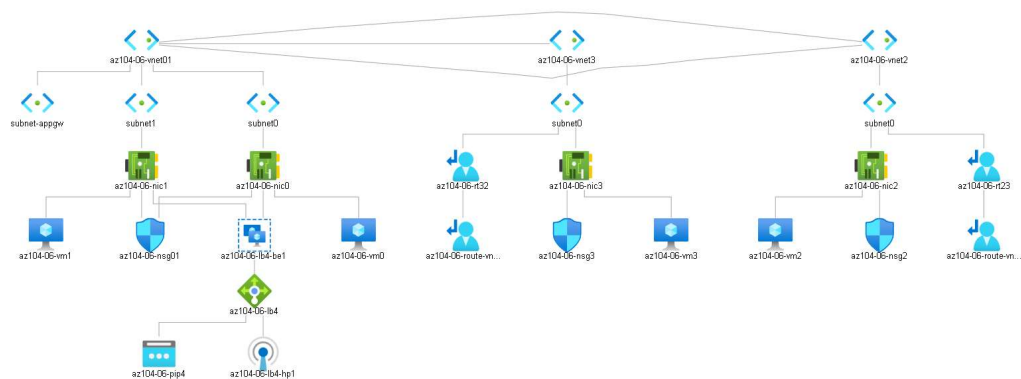
Virtual Network

az104-06-vnet3



Monitoring

Subscription ⓘ	Resource Group ⓘ	Virtual Network ⓘ
Azure for Students ▾	az104-06-r01 ▾	Select virtual network ▾



az104-06-rg1 | Resource visualizer

Choose resources Reset diagram Zoom to fit Refresh Export PNG Feedback

- 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
 - Incidents (preview)

