

# S2S

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Microsoft Azure

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Home > Resource groups >

Create a resource group ...

Basics Tags Review + create

**Resource group** - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

**Project details**

Subscription \* Azure for Students

Resource group \* RS-1

**Resource details**

Region \* (US) East US 2

Review + create

< Previous

Next: Tags >

portal.azure.com/#create/Microsoft.VirtualNetwork-ARM

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Home > Virtual networks >

Create virtual network ...

Basics Security IP addresses Tags Review + create

your resources.

Subscription \* Azure for Students

Resource group \* RS-1  
[Create new](#)

**Instance details**

Virtual network name \* vnet-1

Region \* (US) East US 2  
[Deploy to an Azure Extended Zone](#)

Previous

Next

Review + create

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portal.azure.com/#create/Microsoft.VirtualNetwork-ARM

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Create virtual network ...

Basics Security IP addresses Tags Review + create

10.0.0.0/16

10.0.0.0 /16

10.0.0.0 - 10.0.255.255 65,536 addresses

+ Add a subnet

| Subnets  | IP address range      | Size                | NAT gateway |
|----------|-----------------------|---------------------|-------------|
| subnet-1 | 10.0.1.0 - 10.0.1.255 | /24 (256 addresses) | -           |
| subnet-2 | 10.0.2.0 - 10.0.2.255 | /24 (256 addresses) | -           |

Previous Next Review + create

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Home >

vnet-1-1720260977996 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : vnet-1-1720260977996

Subscription : Azure for Students

Resource group : RS-1

Start time : 7/6/2024, 3:46:32 PM

Correlation ID : 95ef848d-3fcb-449c-aed4-09d02924cc...

> Deployment details

> Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Deployment succeeded

Deployment 'vnet-1-1720260977996' to resource group 'RS-1' was successful.

Go to resource Pin to dashboard

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Microsoft Azure

Home > vnet-1-1720260977996 | Overview > vnet-1

### vnet-1 | Subnets

Virtual network

Search

+ Subnet + Gateway subnet Refresh Manage users Delete

Search subnets

| Name ↑↓  | IPv4 ↑↓     | IPv6 ↑↓ | Available IPs ↑↓ | Delegated to ↑↓ | Security group ↑↓ | Route table ↑↓ |     |
|----------|-------------|---------|------------------|-----------------|-------------------|----------------|-----|
| subnet-1 | 10.0.1.0/24 | -       | 251              | -               | -                 | -              | ... |
| subnet-2 | 10.0.2.0/24 | -       | 251              | -               | -                 | -              | ... |

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Home > vnet-1-1720260977996 | Overview > vnet-1

### vnet-1 | Subnets

Virtual network

Search

+ Subnet + Gateway subnet

Search subnets

| Name ↑↓  | IPv4 ↑↓     |
|----------|-------------|
| subnet-1 | 10.0.1.0/24 |
| subnet-2 | 10.0.2.0/24 |

#### Add a subnet

Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. [Learn more](#)

Subnet purpose

Name \*

**IPv4**

Include an IPv4 address space ☒

IPv4 address range \*

10.0.0.0 - 10.0.255.255

Starting address \*

Size

Subnet address range

**IPv6**

Include an IPv6 address space ☐ This virtual network has no IPv6 address ranges.

Add Cancel

Give feedback

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vnet-1 | Subnets

Virtual network

Search

+ Subnet + Gateway subnet Refresh Manage users Delete

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

Search subnets

| Name ↑↓       | IPv4 ↑↓     | IPv6 ↑↓ | Available IPs ↑↓           | Delegated to ↑↓ | Security group ↑↓ | Route table ↑↓ |     |
|---------------|-------------|---------|----------------------------|-----------------|-------------------|----------------|-----|
| subnet-1      | 10.0.1.0/24 | -       | 251                        | -               | -                 | -              | ... |
| subnet-2      | 10.0.2.0/24 | -       | 251                        | -               | -                 | -              | ... |
| GatewaySubnet | 10.0.0.0/24 | -       | availability dependent ... | -               | -                 | -              | ... |

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Home > Virtual network gateways >

Create virtual network gateway

Basics Tags Review + create

Azure has provided a planning and design guide to help you configure the various VPN gateway options. [Learn more](#)

**Project details**

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

Subscription \* Azure for Students

Resource group RS-1 (derived from virtual network's resource group)

**Instance details**

Name \* vgate

Region \* East US 2  
[Deploy to an edge zone](#)

Gateway type \* VPN ExpressRoute

Review + create

Previous

Next : Tags >

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Home >

Microsoft.VirtualNetworkGateway-20240706154848 | Overview

Deployment

Search

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Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name : Microsoft.VirtualNetworkGateway-20240706154848  
Subscription : Azure for Students  
Resource group : RS-1  
Start time : 7/6/2024, 3:50:49 PM  
Correlation ID : 591ff0a3-312f-4747-98c1-9cff3e08d7da

Deployment details

| Resource | Type                    | Status  |
|----------|-------------------------|---------|
| vgate    | Virtual network gateway | Created |
| ip-2     | Public IP address       | OK      |
| ip-1     | Public IP address       | OK      |

Give feedback

Notifications

More events in the activity log → Dismiss all

Deployment in progress... Running  
Deployment to resource group 'RS-1' is in progress.  
a few seconds ago

Saved subnet  
Successfully saved subnet 'GatewaySubnet'.  
3 minutes ago

Deployment succeeded  
Deployment 'vnet-1-1720260977996' to resource group 'RS-1' was successful.  
Go to resource Pin to dashboard  
4 minutes ago

Resource group created  
Creating resource group 'RS-1' in subscription 'Azure for Students' succeeded.  
Go to resource group Pin to dashboard

portal.azure.com/#create/Microsoft.LocalNetworkGateway-ARM

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Home > Local network gateways >

Create local network gateway

A local network gateway is a specific object that represents an on-premises location (the site) for routing purposes. [Learn more](#)

Project details

Subscription \* Azure for Students

Resource group \* RS-1  
[Create new](#)

Instance details

Region \* East US 2

Name \* loc\_gate

Endpoint ⓘ IP address FQDN

IP address \* ⓘ 106.208.248.103

Address Space(s) ⓘ

103.159.1.0/24

Review + create Previous Next : Advanced >

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Home > LocalNetworkGatewayCreate-20240706155815 | Overview

Deployment

Search x « Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : LocalNetworkGatewayCreate-2024070... Start time : 7/6/2024, 3:58:28 PM

Subscription : Azure for Students Correlation ID : d174cccf-5acc-4093-b2d0-e695a60007...

Resource group : RS-1

> Deployment details

> Next steps

Go to resource

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Home > Microsoft.VirtualNetworkGateway-20240706154848 | Overview

Deployment

Search x « Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : Microsoft.VirtualNetworkGateway-20240706154848

Subscription : Azure for Students

Resource group : RS-1

Start time : 7/6/2024, 3:50:49 PM

Correlation ID : 591ff0a3-312f-4747-98c1-9cff3e08d7da

> Deployment details

> Next steps

Go to resource

Notifications

More events in the activity log → Dismiss all

✓ Deployment succeeded

Deployment 'Microsoft.VirtualNetworkGateway-20240706154848' to resource group 'RS-1' was successful.

Go to resource Pin to dashboard

a few seconds ago

✓ Deployment succeeded

Deployment 'LocalNetworkGatewayCreate-20240706155815' to resource group 'RS-1' was successful.

Go to resource Go to resource group

19 minutes ago

✓ Saved subnet

Successfully saved subnet 'GatewaySubnet'.

30 minutes ago

✓ Deployment succeeded

Deployment 'vnet-1-1720260977996' to resource group 'RS-1' was successful.

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Home > Microsoft.VirtualNetworkGateway-20240706154848 | Overview > vgate

vgate | Connections

Virtual network gateway

Search

+ Add Refresh

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Connections

Point-to-site configuration

Maintenance

Properties

Locks

Monitoring

Automation

Search connections

| Name       | Status | Connection type | Peer |
|------------|--------|-----------------|------|
| No results |        |                 |      |

portal.azure.com/#view/Microsoft\_Azure\_HybridNetworking/CreateConnectionBladeV2

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Home > Microsoft.VirtualNetworkGateway-20240706154848 | Overview > vgate | Connections >

Create connection

Basics Settings Tags Review + create

Create a secure connection to your virtual network by using VPN Gateway or ExpressRoute.  
[Learn more about VPN Gateway](#)  
[Learn more about ExpressRoute](#)

Project details

Subscription \* Azure for Students

Resource group \* RS-1  
[Create new](#)

Instance details

Connection type \* Site-to-site (IPsec)

Name \* vgate-loc

Region \* East US 2

Review + create

Previous

Next : Settings >

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Home > Microsoft.VirtualNetworkGateway-20240706154848 | Overview > vgate | Connections >

Create connection

BasicsSettingsTagsReview + create

Virtual network gateway

To use a virtual network with a connection, it must be associated to a virtual network gateway.

Virtual network gateway \*

vgate

Local network gateway \*

loc\_gate

Shared Key(PSK) \*

.....

IKE Protocol

☐ IKEv1

☒ IKEv2

Use Azure Private IP Address

☐

Enable BGP

☐

IPsec / IKE policy

Default

Custom

Use policy based traffic selector

Enable

Disable

Review + create

Previous

Next : Tags >

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Home > NoMarketplace-20240706161940 | Overview >

### vgate-loc

Connection

Search Refresh Move Download configuration Delete

Overview

- Activity log
- Access control (IAM)
- Tags
- Settings
- Monitoring
- Automation
- Help

#### Essentials

JSON View

|                       |  |                         |                              |
|-----------------------|--|-------------------------|------------------------------|
| Resource group (move) | : RS-1                                 | Data in                 | : 0 B                        |
| Status                | : Unknown                              | Data out                | : 0 B                        |
| Location              | : East US 2                            | Virtual network         | : vnet-1_vnet-1              |
| Subscription (move)   | : Azure for Students                   | Virtual network gateway | : vgate                      |
| Subscription ID       | : ca5224c7-5754-4288-91aa-9ba029f2951e | Local network gateway   | : loc_gate (106.208.248.103) |
| Tags (edit)           | : Add tags                             |                         |                              |

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Home > NoMarketplace-20240706161940 | Overview >

### vgate-loc

Connection

Search Refresh Move Download configuration Delete

Overview

- Activity log
- Access control (IAM)
- Tags
- Settings
- Monitoring
- Automation
- Help

#### Download configuration

Download customer VPN device configuration template

Device vendor \*  
Generic Samples

Device family \*  
Device Parameters

Firmware version \*  
Generic-Samples-Device-Parameters

Download configuration

```
untitled file.txt
File Edit View
[1] Network parameters
> Firmware version: IOS 15.1 or beyond
> Test platform: Cisco ISR 2911, version 15.2
> Connection name: vgate-loc
> VPN Gateway name: ac380078-b86d-4363-8787-0995677b0bd0
> Public IP addresses:
+ Public IP 1: 52.184.227.51
+ Public IP 2: 52.184.227.69
> Virtual network address space:
+ CIDR: 10.0.0.0/16
- Prefix: 10.0.0.0
- Netmask: 255.255.0.0
- Wildcard: 0.0.255.255
> Local network gateway: loc_gate
> On-premises VPN IP: 106.208.248.103
> On-premises address prefixes:
+ CIDR: 192.168.1.0/24
- Prefix: 192.168.1.0
- Netmask: 255.255.255.0
- Wildcard: 0.0.0.255
+ CIDR: 192.168.2.0/24
- Prefix: 192.168.2.0
- Netmask: 255.255.255.0
- Wildcard: 0.0.0.255
Ln 1, Col 1 100% Windows (CRLF) UTF-8
```