1. Create a virtual network.

Create virtual network

Virtual Network service enables Azure resources to securely communicate with each other in a virtual network which is a logical isolation of the Azure cloud dedicated to your subscription. You can connect virtual networks to other virtual networks, or your on-premises network.
Learn more about virtual networks ☐

Name *
vnet-westus2-iland-001 ✓

Resource group *
(New) rg-westus2-network-iland-001 ⌄
Create new

Address space
The virtual network's address space specified as one or more address prefixes in CIDR notation (e.g. 10.0.0.0/16).

	Address range	Addresses	Overlap	
☐	10.7.0.0/16	10.7.0.4 - 10.7.255.254 (65531 addresses)	None	🗑
☐		(0 Addresses)	None	

Subnets
The subnet's address range in CIDR notation (e.g. 10.0.0.0/24). It must be contained by the address space of the virtual network.

	Subnet name	Address range	Addresses	
☐	backend ✓	10.7.0.0/24 ✓	10.7.0.4 - 10.7.0.254 (251 addresses)	🗑
☐			(0 Addresses)	

OK   Discard
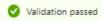
2. Create a Virtual network gateway.

Create virtual network gateway ...

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

Subscription *   [aacn-platform-hub-001   ▼]

Resource group   rg-westus2-network-iland-001 (derived from virtual network's resource group)

Instance details

Name *   [vnet-gw-v-westus2-iland-001   ✓]

Region *   [West US 2   ▼]

Gateway type * ⓘ   ⦿ VPN   ◯ ExpressRoute

VPN type * ⓘ   ⦿ Route-based   ◯ Policy-based

SKU * ⓘ   [Basic   ▼]

Generation ⓘ   [Generation1   ▼]

Virtual network * ⓘ   [(New) vnet-westus2-iland-001   ▼]
                             Create virtual network

                             ⓘ Only virtual networks in the currently selected subscription and region are listed.

Gateway subnet address range * ⓘ   [10.7.1.0/24   ✓]
                             10.7.1.0 - 10.7.1.255 (256 addresses)

Public IP address

Public IP address * ⓘ   ⦿ Create new   ◯ Use existing

Public IP address name *   [pip-gw-vnet-westus2-iland-001   ✓]

Public IP address SKU   Basic

Assignment   ⦿ Dynamic   ◯ Static

Enable active-active mode * ⓘ   ◯ Enabled   ⦿ Disabled

Configure BGP * ⓘ   ◯ Enabled   ⦿ Disabled

Azure recommends using a validated VPN device with your virtual network gateway. To view a list of validated devices and instructions for configuration, refer to Azure's documentation regarding validated VPN devices.

[**Review + create**]   [Previous]   [**Next : Tags >**]   Download a template for automation

Create virtual network gateway ...

✅ Validation passed

Basics   Tags   **Review + create**

Basics

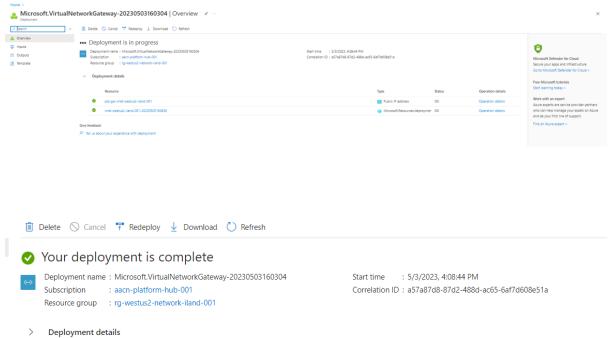|	
Subscription	aacn-platform-hub-001
Resource group	(new) rg-westus2-network-iland-001
Name	vnet-gw-v-westus2-iland-001
Region	West US 2
SKU	Basic
Generation	Generation1
Virtual network	vnet-westus2-iland-001
Subnet	GatewaySubnet (10.7.1.0/24)
Gateway type	Vpn
VPN type	RouteBased
Enable active-active mode	Disabled
Configure BGP	Disabled
Public IP address	pip-gw-vnet-westus2-iland-001

Tags

None

Create   Previous   Next   Download a template for automation

Your deployment is complete

Deployment name : Microsoft.VirtualNetworkGateway-20230503160304
Subscription : aacn-platform-hub-001
Resource group : rg-westus2-network-iland-001

Start time : 5/3/2023, 4:08:44 PM
Correlation ID : a57a87d8-87d2-488d-ac65-6af7d608e51a

> Deployment details

∨ Next steps

[Go to resource]

Give feedback

Tell us about your experience with deployment

➔ **Virtual network gateway public ip.**

3. Create a local network gateway.

Create local network gateway ···
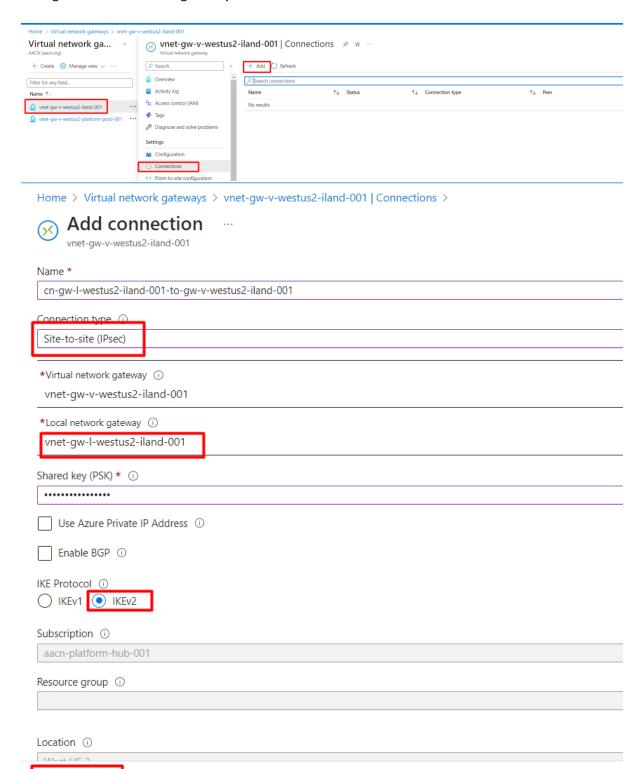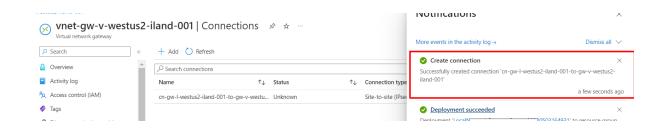
Basics   Advanced   Review + create

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

Project details

Subscription *

| aacn-platform-hub-001 | ⌄ |

   └── Resource group *

| rg-westus2-network-iland-001 | ⌄ |

Create new

Instance details

Region *

| West US 2 | ⌄ |

Name *

| vnet-gw-l-westus2-iland-001 | ✓ |

Endpoint ⓘ

(IP address)   FQDN

IP address * ⓘ

| 64.18.223.130 | ✓ |

Address Space(s) ⓘ

192.168.128.0/24   🗑 ···

| 172.16.0.0/22 | ✓ | 🗑 ···

| Add additional address range |

Review + create   Previous   Next : Advanced >

«   🗑 Delete   ⊘ Cancel   ⬆ Redeploy   ⬇ Download   ⟳ Refresh

✅ Your deployment is complete

Deployment name : LocalNetworkGatewayCreate-20230503164931   Start time   : 5/3/2023, 4:49:43 PM
Subscription   : aacn-platform-hub-001   Correlation ID : 8b384298-a8e9-44c7-bff9-e1fe79b60265
Resource group   : rg-westus2-network-iland-001

  >   **Deployment details**

  ⌄   **Next steps**

       Go to resource

➔ Now go to virtual network gateway.

Home > Virtual network gateways > vnet-gw-v-westus2-iland-001 | Connections >

Add connection ⋯
vnet-gw-v-westus2-iland-001

Name *

cn-gw-l-westus2-iland-001-to-gw-v-westus2-iland-001

Connection type ⓘ

Site-to-site (IPsec)

*Virtual network gateway ⓘ

vnet-gw-v-westus2-iland-001

*Local network gateway ⓘ

vnet-gw-l-westus2-iland-001

Shared key (PSK) * ⓘ

••••••••••••••••

☐ Use Azure Private IP Address ⓘ

☐ Enable BGP ⓘ

IKE Protocol ⓘ
◯ IKEv1   ⦿ IKEv2

Subscription ⓘ

aacn-platform-hub-001

Resource group ⓘ

Location ⓘ

OK

vnet-gw-v-westus2-iland-001 | Connections

Virtual network gateway

🔍 Search

« + Add ⟳ Refresh

Overview

Activity log

Access control (IAM)

Tags

🔍 Search connections

Name	↑↓	Status	↑↓	Connection type
cn-gw-l-westus2-iland-001-to-gw-v-westu...		Unknown		Site-to-site (IPse

4. Create a virtual machine.

Create a virtual machine   ...

Basics   Disks   Networking   Management   Monitoring   Advanced   Tags   Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. 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 * ⓘ	aacn-platform-hub-001	⌄
└─ Resource group * ⓘ	rg-westus2-network-iland-001	⌄
	Create new	

Instance details

Virtual machine name * ⓘ	vm-iland-prod-001	✓
Region * ⓘ	(US) West US 2	⌄
Availability options ⓘ	No infrastructure redundancy required	⌄
Security type ⓘ	Standard	⌄
Image * ⓘ	⊞ Windows 10 Pro, version 21H2 - x64 Gen2	⌄
	See all images	Configure VM generation	

VM architecture ⓘ

◯ Arm64
⦿ x64

ⓘ Arm64 is not supported with the selected image.

Run with Azure Spot discount ⓘ   ☐

Size * ⓘ

Standard_D2s_v3 - 2 vcpus, 8 GiB memory ($70.08/month) ▼

See all sizes

Administrator account

Username * ⓘ

aacn ✓

Password * ⓘ

•••••••••••• ✓

Confirm password * ⓘ

•••••••••••• ✓

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * ⓘ

○ None

● Allow selected ports

Select inbound ports *

RDP (3389) ▼

⚠ **This will allow all IP addresses to access your virtual machine.** This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Licensing

☑ I confirm I have an eligible Windows 10/11 license with multi-tenant   *
hosting rights.

Review multi-tenant hosting rights for Windows 10/11 compliance ⧉

Review + create   < Previous   Next : Disks >

Basics   **Disks**   Networking   Management   Monitoring   Advanced   Tags   Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. Learn more ⎘

VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host ⓘ   ☐

> ⓘ Encryption at host is not registered for the selected subscription.
> Learn more about enabling this feature ⎘

OS disk

OS disk type * ⓘ | Standard SSD (locally-redundant storage)   ⌄ |

The selected VM size supports premium disks. We recommend Premium SSD for high IOPS workloads. Virtual machines with Premium SSD disks qualify for the 99.9% connectivity SLA.

Delete with VM ⓘ   ☑

Key management ⓘ | Platform-managed key   ⌄ |

Enable Ultra Disk compatibility ⓘ   ☐

Ultra disk is supported in Availability Zone(s) 1,2,3 for the selected VM size Standard_D2s_v3.

Data disks for vm-iland-prod-001

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

LUN	Name	Size (GiB)	Disk type	Host caching	Delete with VM ⓘ		
0	vm-iland-prod-001_D...	256	Standard SSD LRS	Read-only ⌄	☑	🗑	✎

Create and attach a new disk   Attach an existing disk

| **Review + create** | | < Previous | | Next : Networking > |

Inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.
Learn more ⧉

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * ⓘ	vnet-westus2-iland-001 ⌄
	Create new
Subnet * ⓘ	backend (10.7.0.0/24) ⌄
	Manage subnet configuration
Public IP ⓘ	(new) vm-iland-prod-001-ip ⌄
	Create new

NIC network security group ⓘ
- ◯ None
- ⦿ Basic
- ◯ Advanced

Public inbound ports * ⓘ
- ◯ None
- ⦿ Allow selected ports

Select inbound ports *   RDP (3389) ⌄

⚠ **This will allow all IP addresses to access your virtual machine.** This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Delete public IP and NIC when VM is deleted ⓘ ☑

Enable accelerated networking ⓘ ☑

Load balancing

[Review + create]   [< Previous]   [Next : Management >]

✅ Validation passed

Basics | Disks | Networking | Management | Monitoring | Advanced | Tags | **Review + create**

ℹ️ Cost given below is an estimate and not the final price. Please use <u>Pricing calculator</u> for all your pricing needs.

Price

1 X Standard D2s v3
by Microsoft
Terms of use | Privacy policy

Subscription credits apply ⓘ
0.0960 USD/hr
Pricing for other VM sizes

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.

⚠️ **You have set RDP port(s) open to the internet.** This is only recommended for testing. If you want to change this setting, go back to Basics tab.

Basics

Subscription	aacn-platform-hub-001
Resource group	rg-westus2-network-iland-001
Virtual machine name	vm-iland-prod-001
Region	West US 2

Create
Create

< Previous | Next > | Download a template for automation

tWindowsDesktop.Windows-10-win10-20230503103748 | Overview

Delete | Cancel | Redeploy | Download | Refresh

✓ Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsDesktop.Windows...
Subscription: aacn-platform-hub-001
Resource group: rg-westus2-network-iland-001

Start time: 5/3/2023, 5:04:23 PM
Correlation ID: 274baed9-d571-481c-acbf-abe3e6758358

∨ Deployment details

∧ 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

Give feedback

Tell us about your experience with deployment

Home > CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20230503165746 | Overview > vm-iland-prod-001

vm-iland-prod-001 | Networking
Virtual machine

Search

Feedback   Attach network interface   Detach network interface

Overview	vm-iland-prod-001753
Activity log	
Access control (IAM)	IP configuration
Tags	ipconfig1 (Primary)
Diagnose and solve problems	

Network Interface: vm-iland-prod-001753   Effective security rules   Troubleshoot VM connection issues   Topology
Virtual network/subnet: vnet-westus2-iland-001/backend   NIC Public IP: 20.3.175.98   NIC Private IP: 10.7.0.4   Accelerated networking: Enabled

Settings

Networking

Connect

Disks

Size

Microsoft Defender for Cloud

Advisor recommendations

Extensions + applications

Availability + scaling

Configuration

Inbound port rules   Outbound port rules   Application security groups   Load balancing

Network security group vm-iland-prod-001-nsg (attached to network interface: vm-iland-prod-001753)
Impacts 0 subnets, 1 network interfaces

Add inbound port rule

Priority	Name	Port	Protocol	Source	Destination	Action	
300	⚠ RDP	3389	TCP	Any	Any	✓ Allow	···
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	✓ Allow	···
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	✓ Allow	···
65500	DenyAllInBound	Any	Any	Any	Any	⊘ Deny	···

🛡️ Add inbound security rule

vm-iland-prod-001-nsg ✕

Source ⓘ

| Any ⌄ |

Source port ranges * ⓘ

| * |

Destination ⓘ

| Any ⌄ |

Service ⓘ

| Custom ⌄ |

Destination port ranges * ⓘ

| * ✓ |

Protocol

- ⦿ Any
- ◯ TCP
- ◯ UDP
- ◯ ICMP

Action

- ⦿ Allow
- ◯ Deny

Priority * ⓘ

| 310 |

Name *

| AllowAnyCustomAnyInbound ✓ |

Description

| |

Add Cancel 🗨 Give feedback