

Azure:

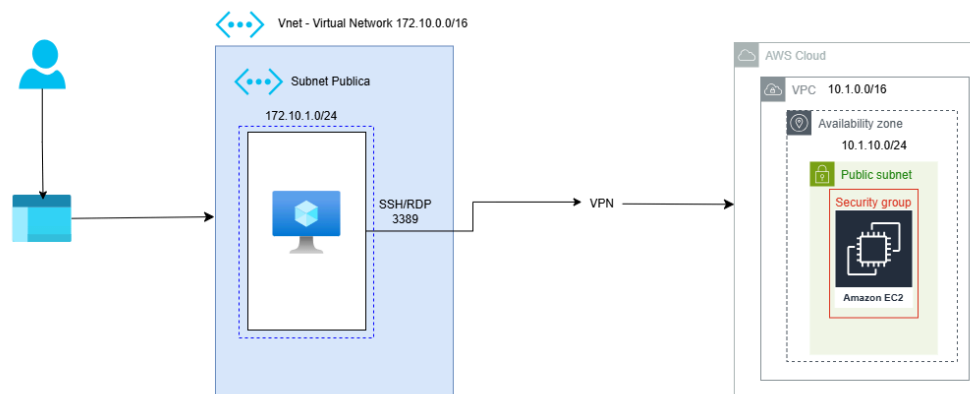
1. Criar VNet `vnet-aquino` e sub-redes.
2. Configurar `vnet-gateway-aquino` com IP público `172.173.188.139`.
3. Criar Local Network Gateways (`lng-aquino`, `lng2-aquino`) com IPs dos túneis AWS.
4. Criar conexões `connections-aquino` e `connections2-aquino`, tipo *Site-to-Site* (IPsec), com chave pré-compartilhada.
5. Associar o gateway à rede virtual.

AWS:

1. Criar a VPC `10.1.0.0/16` e sub-rede pública `10.1.10.0/24`.
2. Criar Gateway Virtual Privado (VGW) e associar à VPC.
3. Criar Customer Gateway com IP `172.173.188.139`.
4. Criar conexão VPN `vpn-connections-aws` com dois túneis.
5. Adicionar rotas estáticas nas tabelas de rota.
6. Liberar regras no Security Group da EC2 (ICMP, SSH).
7. Testar conectividade (ping entre EC2 e VM Azure).

Tabela de IPs, Gateways, Sub-redes e Serviços

Elemento	IP Público	IP Privado	Sub-rede	Observação
VM Azure <code>vm-aquino</code>	20.169.177.207	172.10.1.4	172.10.1.0/24	Linux Ubuntu
Gateway Azure VPN	172.173.188.139	—	GatewaySubnet	<code>vnet-gateway-aquino</code>
EC2 <code>instancia-aquino</code>	34.238.136.53	10.1.10.167	10.1.10.0/24	Ubuntu AWS



Pesquisar recursos, serviços e documentos (G+/)

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vnet-gateway-aquino | Conexões

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+ Adicionar

Atualizar

Overview

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IAM (Controle de acesso)

Marcações

Diagnosticar e resolver problemas

Visualizador de recursos

Configurações

Configuração

Conexões





Pesquisar conexões

Nome	Status	Tipo de conexão	Par
connections-aquino	Conectado	Site a site (IPsec)	Ing-aquino
connections2-aquino	Conectado	Site a site (IPsec)	Ing2-aquino

Microsoft Azure

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Hybrid connectivity | Local network gateways

Versão prévia

Pesquisar

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+ Criar

Gerenciar a exibição

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Exportar para CSV

Abrir a consulta

Atribuir marcações

Overview

ExpressRoute

VPN gateway

Set up VPN Gateway

VPN gateways

VPN connections

Local network gateways

Filtrar por qualquer camp.

Assinatura igual a tudo

Grupo de recursos igual a tudo

Localização igual a tudo

Adicionar filtro

Mostrando 1 a 2 de 2 registros.

Nenhum agrupamento






Exibição de lista

<input type="checkbox"/>	Nome ↑↓	Grupo de recursos ↑↓	Localização ↑↓	Assinatura ↑↓	
<input type="checkbox"/>	Ing-aquino	GR-MultiCloud	East US	Azure for Students	...
<input type="checkbox"/>	Ing2-aquino	GR-MultiCloud	East US	Azure for Students	...

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Exibição JSON

Grupo de recursos (mover) : GR-MultiCloud

Endereço IP : 34.237.195.13

Local : East US

Espaços de endereço : 10.1.0.0/16

Assinatura (mover) : Azure for Students






ID da Assinatura : 1390473b-ab57-46f5-ba88-7f6174bb39f2

Marcações (editar) : Adicionar marcas

Microsoft Azure

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Exibição JSON

Grupo de recursos (mover) : GR-MultiCloud

Endereço IP : 52.44.253.167

Local : East US

Espaços de endereço : 10.1.0.0/16

Assinatura (mover) : Azure for Students

ID da Assinatura : 1390473b-ab57-46f5-ba88-7f6174bb39f2

Marcações (editar) : Adicionar marcas

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United States (N. Virginia)

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VPC

Security Groups

gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

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Security

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Security groups

PrivateLink and Lattice

Getting started

Endpoints

Endpoint services

Service networks

Lattice services

Resource configurations

Security Groups (1/11)

Info

Actions

Export security groups to CSV

Create security group

Find security groups by attribute or tag

	Name	Security group ID	Security group name	VPC ID	Description
<input type="checkbox"/>	-	sg-05d922a3ba7ec1c8d	default	vpc-0658618f1f39c835f	default VPC sec
<input type="checkbox"/>	-	sg-025987e856ac06d5e	launch-wizard-1	vpc-0658618f1f39c835f	launch-wizard-
<input checked="" type="checkbox"/>	-	sg-0dd2a12891bd500e5	aws-aquino-sg	vpc-0ed55058a2456f937	grupo de segur
<input type="checkbox"/>	-	sg-0d4184699e78cf693	python-sc-rt	vpc-0658618f1f39c835f	launch-wizard-
<input type="checkbox"/>	-	en-0ash79c47a8fccc66d4	monitorinn-en	vpc-0658618f1f39c835f	launch-wizard-

sg-0dd2a12891bd500e5 - aws-aquino-sg

Inbound rules (2)

Manage tags

Edit inbound rules

Find

	Name	Security group rule ID	IP version	Type	Protocol	Port range
<input type="checkbox"/>	-	sgr-03f3c400f70fdac3	IPv4	SSH	TCP	22
<input type="checkbox"/>	-	sgr-0c9bb1a23fe6a700d	IPv4	All ICMP - IPv4	ICMP	All

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VPC

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Network Firewall

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Virtual private gateways

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Customer gateways (1/1)

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Create customer gateway

Find resource by attribute or tag

	Name	Customer gateway ID	State	BGP ASN	IP address	Type
<input checked="" type="radio"/>	cgw-aquino	cgw-0502cf74b3c4d7945	Available	65000	172.173.188.139	ipsec.1

Customer gateway cgw-0502cf74b3c4d7945 / cgw-aquino

Details

Tags

Details

Customer gateway ID

cgw-0502cf74b3c4d7945

State

Available

BGP ASN

65000

Certificate ARN

-

Type

ipsec.1

IP address

172.173.188.139

Device

-

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Virtual private gateways (1/1)

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Create virtual private gateway

Find resource by attribute or tag

	Name	Virtual private gateway ID	State	VPC attachment state	Type	VPC
<input checked="" type="radio"/>	vpg-aquino	vgw-073789a2dd02604f7	Available	Attached	ipsec.1	vpc-0ed55058a2456f937

Virtual private gateway vgw-073789a2dd02604f7 / vpg-aquino

Details

Tags

Details

Virtual private gateway ID

vgw-073789a2dd02604f7

State

Available

Amazon ASN

64512

VPC attachment state

Attached

Type

ipsec.1

VPC

vpc-0ed55058a2456f937 | vpc-aws-aquino

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Verified Access trust providers

VPN connections (1/1) Info

Find resource by attribute or tag

Name	VPN ID	State	Virtual private gateway	Transit gateway	Customer gateway
vpn-connections-aws	vpn-0e09f4feb6c697700	Available	vgw-073789a2dd02604f7	-	cgw-0502cf74b3c4d

VPN connection vpn-0e09f4feb6c697700 / vpn-connections-aws

Details

Tunnel details

Static routes

Tags

Tunnel state

Tunnel number	Outside IP address	Inside IPv4 CIDR	Inside IPv6 CIDR	Status	Provisioning status	Last status change
Tunnel 1	34.237.195.13	169.254.62.184/30	-	Up	-	June 17, 2025, 0:40:19 (UTC-03:00)
Tunnel 2	52.44.253.167	169.254.52.156/30	-	Up	-	June 17, 2025, 0:39:34 (UTC-03:00)

Tunnel 1 options Info

CloudShell

Feedback

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VPN connections (1/1) Info

Find resource by attribute or tag

Name	VPN ID	State	Virtual private gateway	Transit gateway	Customer gateway
vpn-connections-aws	vpn-0e09f4feb6c697700	Available	vgw-073789a2dd02604f7	-	cgw-0502cf74b3c4d

VPN connection vpn-0e09f4feb6c697700 / vpn-connections-aws

VPN ID

vpn-0e09f4feb6c697700

State

Available

Virtual private gateway

vgw-073789a2dd02604f7

Customer gateway

cgw-0502cf74b3c4d7945

Transit gateway

-

Customer gateway address

172.173.188.139

Type

ipsec.1

Category

VPN

VPC

vpn-0ed55058a2456f937

Acceleration enabled

Disabled

Authentication

Pre-shared key

Local IPv4 network CIDR

0.0.0.0/0

Remote IPv4 network CIDR

0.0.0.0/0

Remote IPv6 network CIDR

-

Core network ARN

Core network attachment ARN

Gateway association state

Outside IP address type

CloudShell

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EBS Volumes

Instances (1/3) Info

Find Instance by attribute or tag (case-sensitive)

All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
instancia-aquino	i-059b950b27248516a	Running	t3.micro	3/3 checks passed	View alarms +	us-east-1a	-
MineServer	i-0a94d07c24741cc66	Running	t3.medium	3/3 checks passed	View alarms +	us-east-1a	ec2-54-1...

i-059b950b27248516a (instancia-aquino)

Instance ID

i-059b950b27248516a

Public IPv4 address

34.238.136.53 | open address

Private IPv4 addresses

10.1.10.167

IPv6 address

-

Instance state

Running

Public DNS

-

Hostname type

IP name: ip-10-1-10-167.ec2.internal

Private IP DNS name (IPv4 only)

ip-10-1-10-167.ec2.internal

Elastic IP addresses

-

Answer private resource DNS name

-

Instance type

t3.micro

CloudShell

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```
ubuntu@ip-10-1-10-167: ~  
C:\Users\54877244824\Downloads>ssh -i labsuser.pem ubuntu@35.174.137.113  
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1029-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/pro  
  
System information as of Mon Jun 16 20:28:59 UTC 2025  
  
System load:  0.08      Temperature:   -273.1 C  
Usage of /:   25.3% of 6.71GB  Processes:    106  
Memory usage: 22%      Users logged in: 0  
Swap usage:   0%        IPv4 address for ens5: 10.1.10.167  
  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-10-1-10-167:~$ ping 172.10.1.4  
PING 172.10.1.4 (172.10.1.4) 56(84) bytes of data:  
64 bytes from 172.10.1.4: icmp_seq=1 ttl=64 time=4.59 ms  
64 bytes from 172.10.1.4: icmp_seq=2 ttl=64 time=4.48 ms  
64 bytes from 172.10.1.4: icmp_seq=3 ttl=64 time=4.87 ms  
64 bytes from 172.10.1.4: icmp_seq=4 ttl=64 time=5.58 ms  
64 bytes from 172.10.1.4: icmp_seq=5 ttl=64 time=4.59 ms
```