



VNet Transit Gateway

CloudRiches

概述

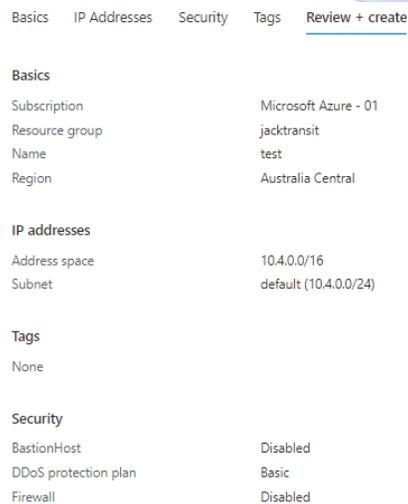
Transit Gateway 是用來當一個中央 Vnet Peering 的連線方式，如果 A 與 B 能透過 Peering 進行溝通，那如果要在讓 C 與 A 跟 B 溝通，就要建立一個 HubVnet，需要讓每個 Vnet Peering 到 HubVNet 就可以讓 A 跟 B 跟 C 進行溝通。

事前準備

- 需要有 3 個不同 Vnet
- 確認 IP Address 不可以相同，區域無限制，但建議是同區域降低區域性
- 一次可以與 500 多個 Vnet 連線
- 需建立路由來路由 Vnet

操作步驟

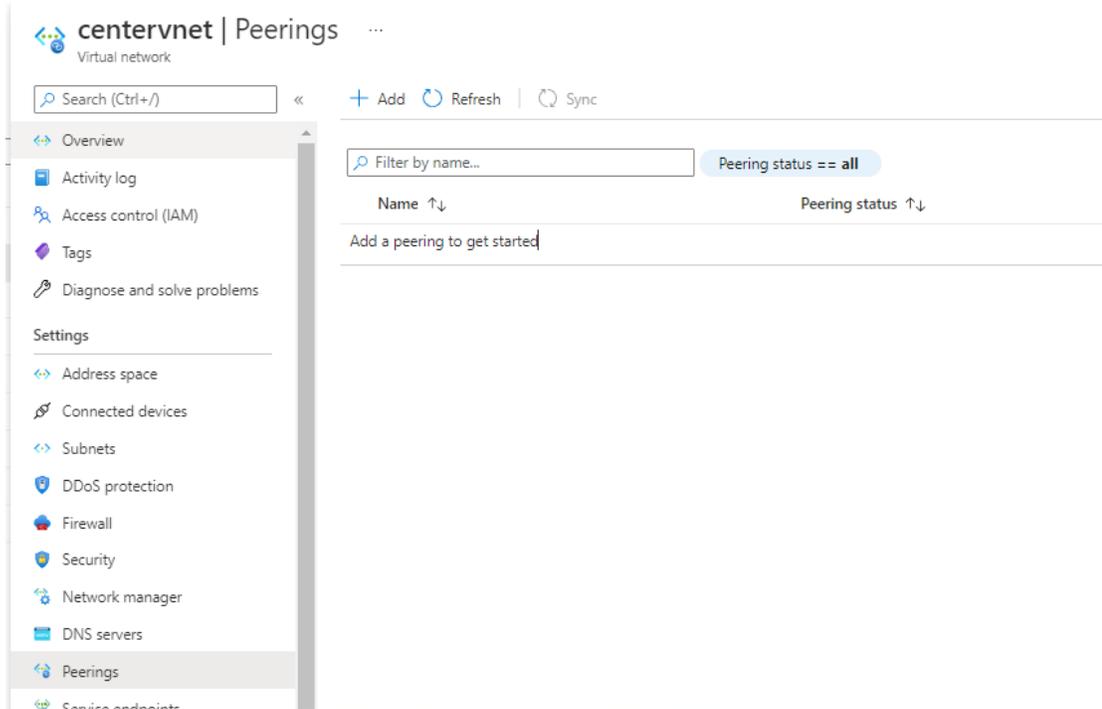
1. 建立三個不同 Address Space 的 VNet，區域可以相同或不同



Basics	IP Addresses	Security	Tags	<u>Review + create</u>
Basics				
Subscription	Microsoft Azure - 01			
Resource group	jacktransit			
Name	test			
Region	Australia Central			
IP addresses				
Address space	10.4.0.0/16			
Subnet	default (10.4.0.0/24)			
Tags				
None				
Security				
BastionHost	Disabled			
DDoS protection plan	Basic			
Firewall	Disabled			



2. 於作為 HubVnet 的 VNet 進行 Peering 於每個 Vnet 溝通



3. 輸入 HubVnetPeering 資訊, Remote VNet 選擇 Remote Vnet

Add peering ...

centervnet

links.

This virtual network

Peering link name *

Hub2Vnet2 ✓

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 *

Vnet22Hub ✓

Virtual network deployment model ⓘ

Resource manager

Classic

I know my resource ID ⓘ

Subscription * ⓘ

Microsoft Azure - 01 ▾

Virtual network *

jackvmvnet2 ▾

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)

4. 確認 Gateway Transit “Enabled”

+ Add Refresh Sync

Filter by name... Peering status == all

Name	Peering status	Peer	Gateway transit
Hub2Vnet1	Connected	jacktransit-vnet	Enabled
Hub2Vnet2	Updating	jackvmnet2	Enabled

5. 建立 Route Table, 並選擇與 VM 相同區域的區域

Create Route table ...

Project details

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

Subscription * ⓘ

Microsoft Azure - 01

Resource group * ⓘ

jacktransit

[Create new](#)

Instance details

Region * ⓘ

Southeast Asia

Name * ⓘ

transit

Propagate gateway routes * ⓘ

Yes

No

6. 新增所有 VM 的 Vnet 的 Address Space

routetable | Routes

Route table

Search (Ctrl+/) << + Add

Search routes

Name	Address prefix	Next hop
No results.		

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Routes

Subnets

Properties

Locks

7. 指向 VPN

Edit route

Gateway

Save Discard Delete

Address prefix *

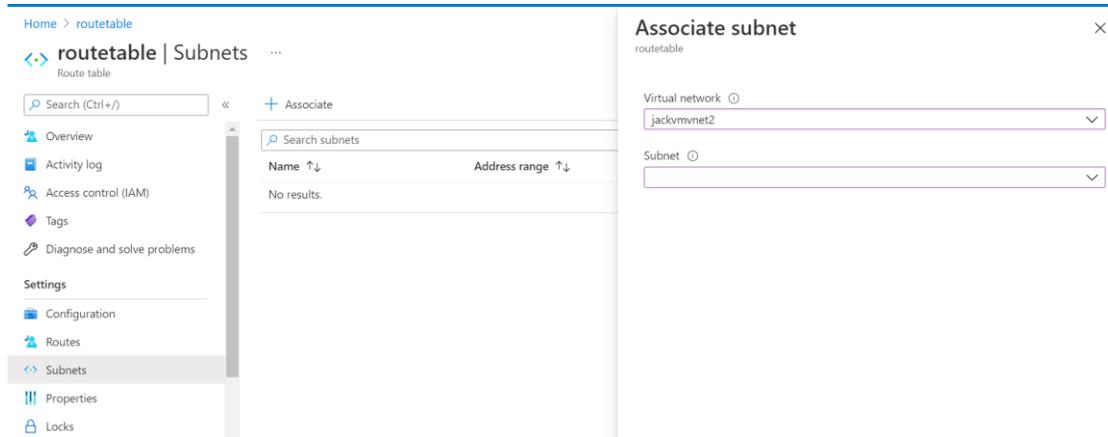
200.200.0.0/16

Next hop type

Virtual network gateway

Next hop address

8. 選擇 VM 所使用的 Subnet



9. 登入測試 Peering 連線, 透過 Private IP

```
9 packets transmitted, 9 received, 0% packet loss, time 8013ms
rtt min/avg/max/mdev = 3.225/3.996/5.570/0.710 ms
Azureuser@vm2:~$
Azureuser@vm2:~$ ping 10.3.0.4
PING 10.3.0.4 (10.3.0.4) 56(84) bytes of data.
64 bytes from 10.3.0.4: icmp_seq=1 ttl=63 time=5.45 ms
64 bytes from 10.3.0.4: icmp_seq=2 ttl=63 time=4.27 ms
64 bytes from 10.3.0.4: icmp_seq=3 ttl=63 time=3.43 ms
█
```

參考文件

為虛擬網路對等互連設定 VPN 閘道傳輸

[為虛擬網路對等互連設定 VPN 閘道傳輸 - Azure VPN Gateway | Microsoft Learn](#)



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