

# SOP for Azure Virtual WANs

Status of SOP:

⚠ Not Endorsed.

Related Platform	Component
Azure	Azure Virtual WAN

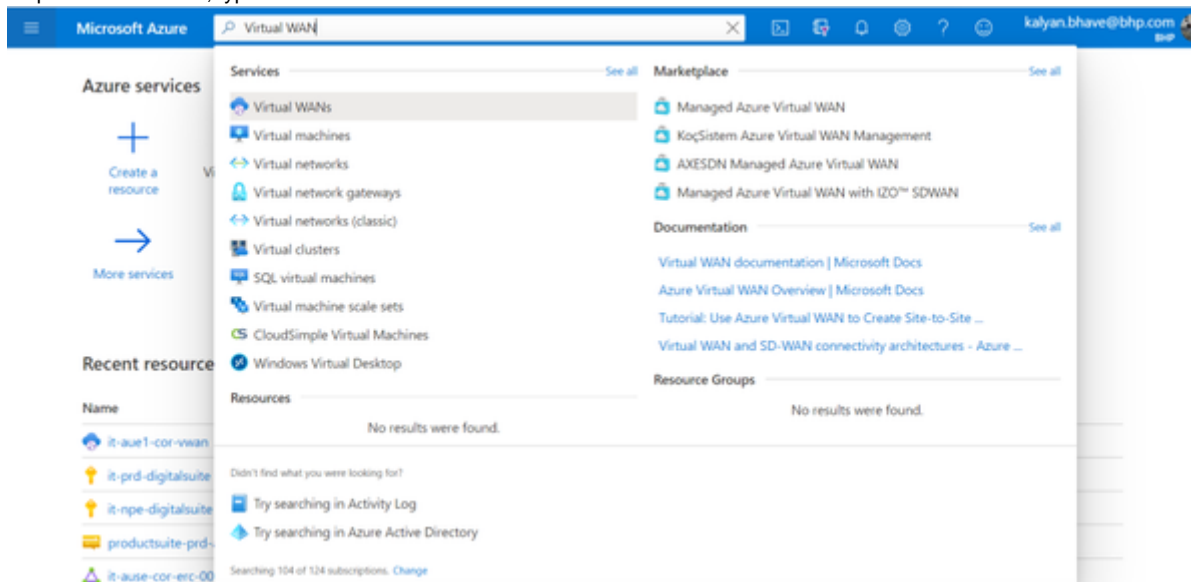
Problem

❌ How to add Azure Virtual WAN?

Solution

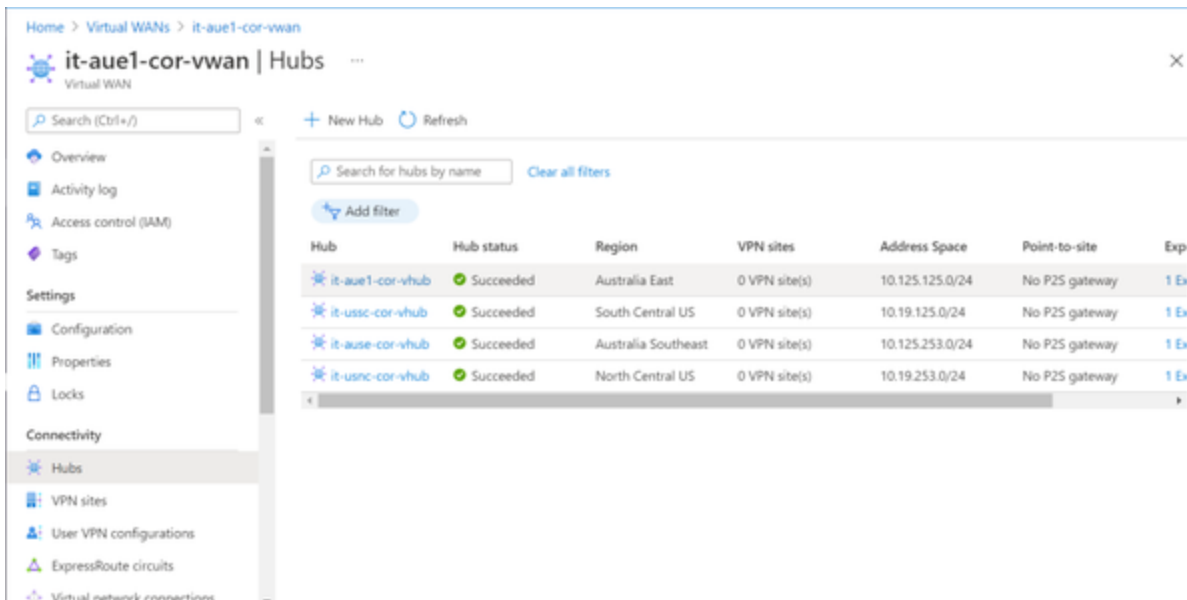
Step 1: Login with BHP credentials to Azure portal <https://portal.azure.com/#home>

Step 2: In search box, type Virtual WANs and select the same.



Step 3: Select **it-ae1-cor-vwan** only Virtual WAN.

Step 4: Under **"Connectivity"**- Select **"Hubs"**- We have 4 Hubs for each region.

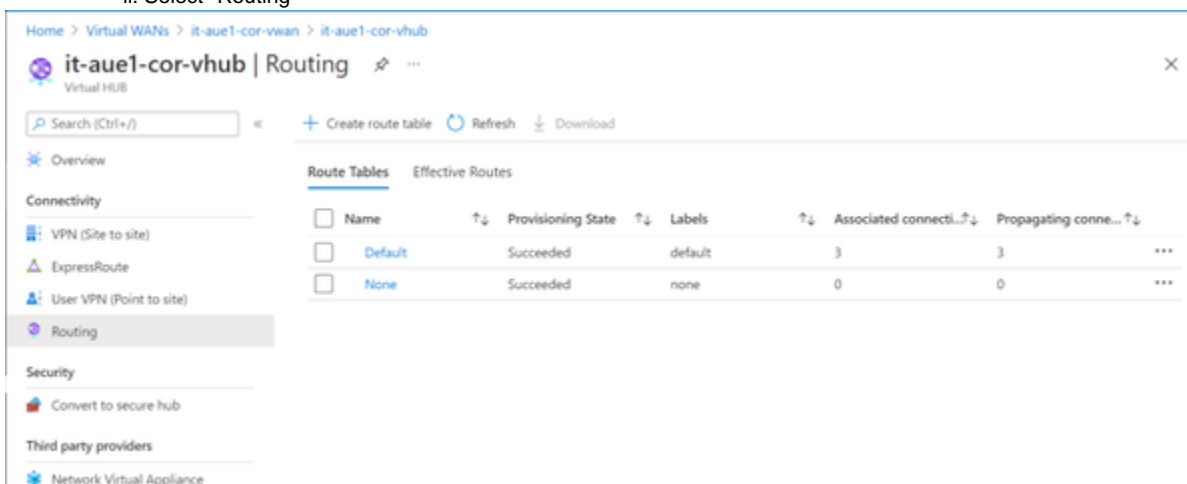


Step 5: If we have a request to add a new CIDR range in any Hub then: -

a. We must change all in all the four hubs.

i. Click the respected "Hub" (I am choosing "it-ae1-cor-vhub" Australia East Hub for example).

ii. Select "Routing"



iii. Elect for "Default"

iv. Under "Basics" tab – Look for the "Route name" and copy the "Destination prefix" IP address in notepad.

v. Add the new range of CIDR and paste back to Azure portal under the "Destination prefix".

**e.g.,** 10.125.112.0/21, 10.125.120.0/22, 10.125.15.0/24, 10.125.16.0/24, 10.125.18.0/23, 10.125.25.0/24, 10.125.31.0/24, 10.125.46.0/23, 10.125.48.0/20, 10.125.64.0/19, 10.125.7.0/24, 10.125.8.0/24, 10.125.96.0/20, 10.160.0.0/17, 10.161.0.0/17, 10.162.0.0/17, 10.163.0.0/17, 10.164.0.0/17

**Note:-** Highlights section is the new CIDR range added and make sure you update one Hub at a time.

vi. Repeat the same for all the "Route name".

b. We have to repeat the same steps of 5(i-vi) for all the other remaining "Hubs" :-

i. it-ussc-cor-vhub

ii. it-ause-cor-vhub

iii. it-usnc-cor-vhub

Step 6: Go back to "Virtual HUBs", Under "**Connectivity**" select "**Virtual network connections**".

Home > Virtual WANs > it-ae1-cor-vwan

it-ae1-cor-vwan | Virtual network connections

Search (Ctrl+/) Add connection Refresh

Configuration  
Properties  
Locks  
Connectivity  
Hubs  
VPN sites  
User VPN configurations  
ExpressRoute circuits  
Virtual network connections

Hub	Hub region	Virtual network	Virtual network con...	Virtual network con...	Associated to Route...	Prop
it-ae1-cor-vhub	Australia East	Virtual networks (1)	it-ae1-cor-vmt...	it-ae1-cor-vhub-to...	Succeeded (1)	
it-ae1-cor-vhub	Australia East	Virtual networks (1)	it-ae1-cor-vmt...	it-ae1-cor-vhub-to...	Succeeded (1)	
it-ae1-cor-vhub	Australia East	Virtual networks (1)	it-ae1-cor-vmt...	it-ae1-cor-vhub-to...	Succeeded (1)	
it-ae1-cor-vhub	Australia East	Virtual networks (1)	it-ae1-cor-vmt...	it-ae1-cor-vhub-to...	Succeeded (1)	
it-ae1-cor-vhub	Australia East	Virtual networks (1)	it-ae1-cor-vmt...	it-ae1-cor-vhub-to...	Succeeded (1)	

a. You see four virtual hub connections and under each connection there is an option to edit.

b. Under the "Destination prefix", you need to populate the routes again which you entered earlier in step 5(v).

Home > Virtual WANs > it-ae1-cor-vwan

it-ae1-cor-vwan | Virtual network connections

Add connection Refresh

Hub	Hub region	Virtual network	Virtual...	Virtual network c...	Associated to Route ...	Propagating to Route...	Propagating to label(...
it-ae1-cor-vhub	Australia East	Virtual networks (1)	it-ae1-cor-vmt...	it-ae1...	Succeeded (1)	defaultRouteTable	defaultRouteTabl
it-ae1-cor-vhub	Australia East	Virtual networks (1)	it-ae1-cor-vmt...	it-ae1...	Succeeded (1)	defaultRouteTable	defaultRouteTabl
it-ae1-cor-vhub	Australia East	Virtual networks (1)	it-ae1-cor-vmt...	it-ae1...	Succeeded (1)	defaultRouteTable	defaultRouteTabl
it-ae1-cor-vhub	Australia East	Virtual networks (1)	it-ae1-cor-vmt...	it-ae1...	Succeeded (1)	defaultRouteTable	defaultRouteTabl
it-ae1-cor-vhub	Australia East	Virtual networks (1)	it-ae1-cor-vmt...	it-ae1...	Succeeded (1)	defaultRouteTable	defaultRouteTabl

Edit virtual network con...  
Delete virtual network c...

c. Update in all regions only if its asked.

**FYI:-** Most of the infrastructure is deployed via Terraform. Hubs are not supported by Terraform. Hubs were deployed using templates- Static Route table maintained by Azure Squad and we can streamline this by CLI scripts.