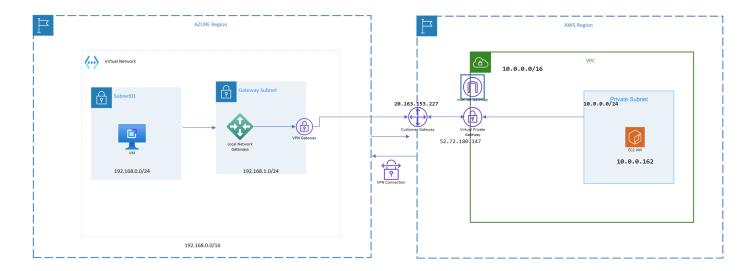
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Architecture Diagram



AWS-Azure Site-to-Site VPN connection Setup:

Configuring Azure

1. Crate a resource group on Azure to deploy the resources on that

Resource Group Name: rg-azure-aws-conn

Region: East-US

2. Create Virtual Network

Resource Group Name: rg-azure-aws-conn

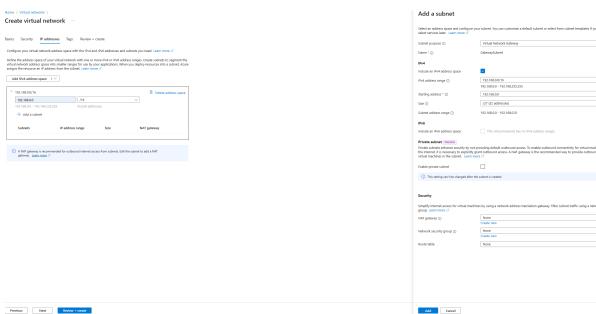
Region: East-US

VNet Name: vnet-azure

VNet IPv4 Address Space: 192.168.0.0/16

Subnet Name: GatewaySubnet

Subnet IPv4 Address Space: 192.168.1.0/24



3. Create the Virtual Network Gateway

VPN Gateway Name: vpn-azure-aws

Region: East-US Gateway Type: VPN

SKU: VpnGw1

Generation: Generation 1 Virtual Network: vnet-azure

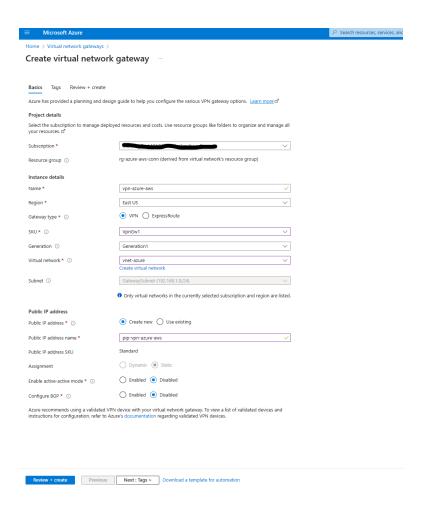
Public IP Address: pip-vpn-azure-aws

Public IP Address Type: Basic

Assignment: Dynamic

Enable active-active mode: Disabled

Configure BGP: Disabled

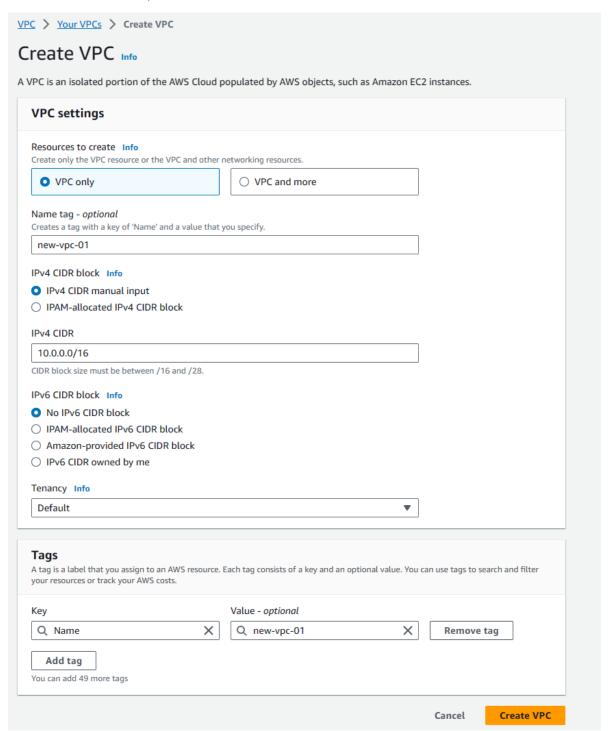


Configuring AWS

4. Create the Virtual Private Cloud (VPC) in AWS

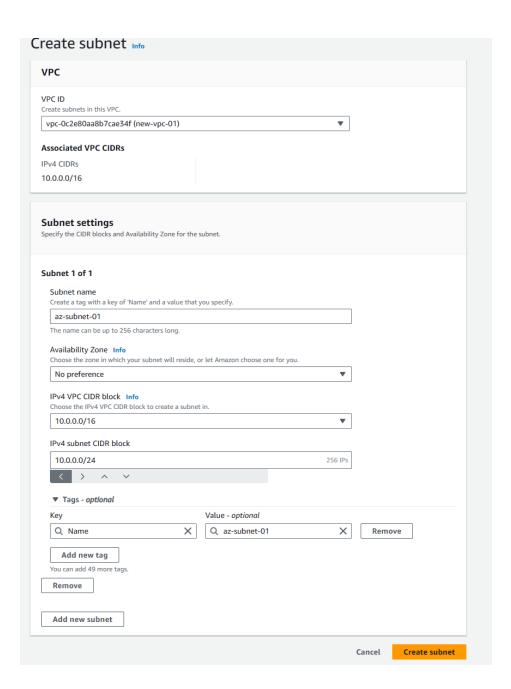
Name: new-vpc-01

IPv4 CIDR: 10.0.0.0/16



5. Create a subnet inside the VPC (Virtual Network)

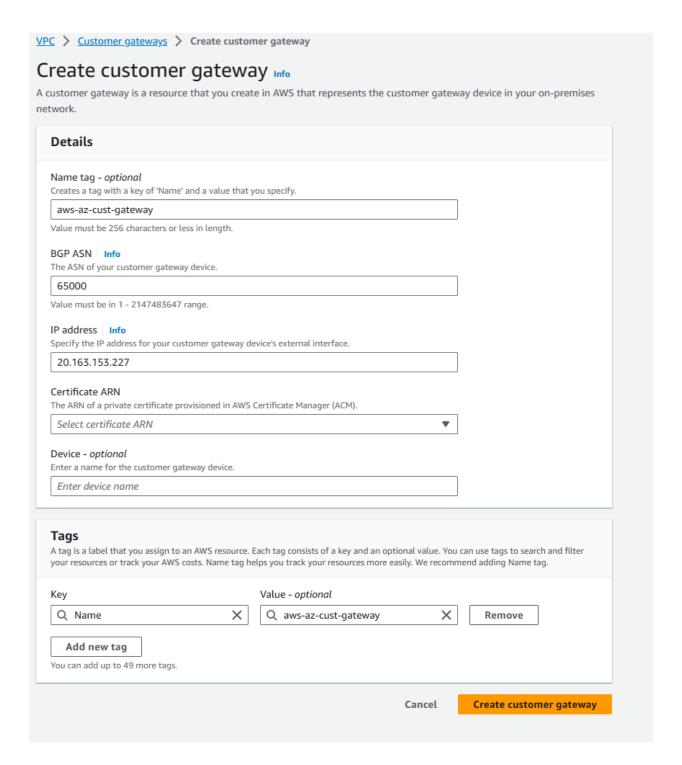
Name: az-subnet-01 VPC Name: new-vpc-01 VPC IPv4 CIDR: 10.0.0.0/16 IPv4 CIDR: 10.0.0.0/24



6. Create a customer gateway pointing to the Public IP Address of Azure VPN Gateway

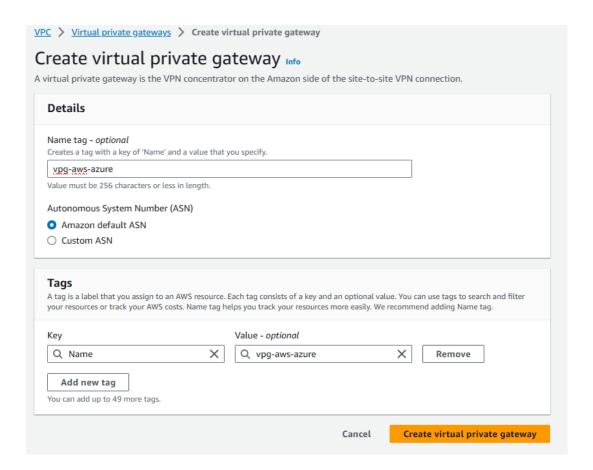
When you create a customer gateway, you provide information about your device to AWS. You or your network administrator must configure the device to work with the site-to-site VPN connection.

IP address: Public IP Address of Azure VPN Gateway 20.163.153.227 (pip-vpn-azure-aws) Rest keep everything as default



7. Create the Virtual Private Gateway then attach to the VPC

Name: vpg-aws-azure



Attach with your VPC:



8. Create a site-to-site VPN Connection

Name: s2s-vpn-aws-azure

Target gateway type: Virtual private gateway (Select your Virtual private gateway

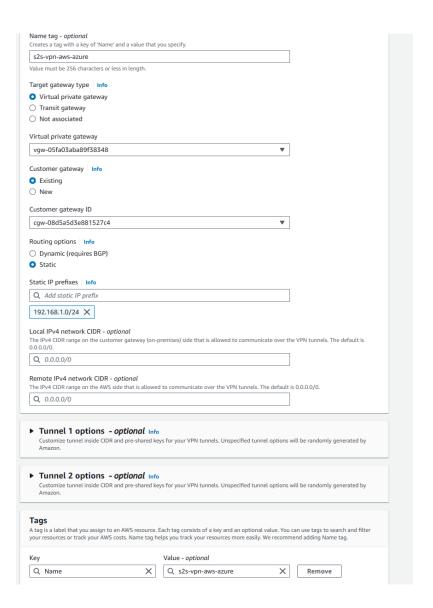
created in 7)

Customer gateway: Existing (Select your VCustomer gateway created in 6)

Routing options: Static

Static IP prefixes: 192.168.1.0/24

Leave rest of them as default



9. Download the configuration file

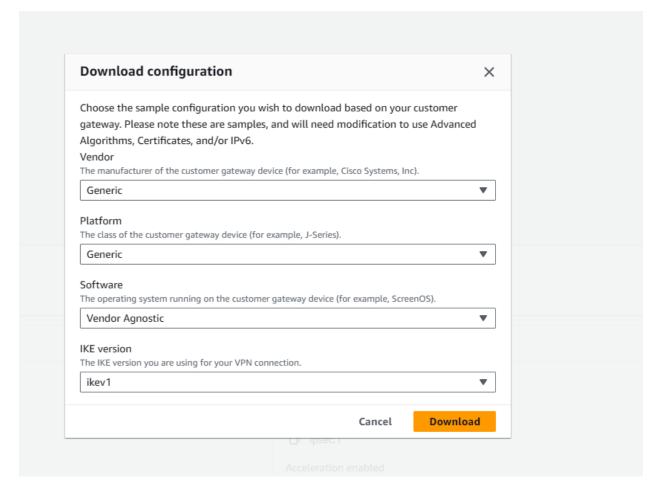
Vendor: Generic

Platform: Generic

Software: Vendor Agnostic

In this configuration file you will note that there are the Shared Keys and the

Public Ip Address for each of one of the two IPSec tunnels created by AWS.



Connecting Azure and AWS

10. Create the Local Network Gateway in Azure

Name: local-netw-gtwy-az-aws

Resource Group Name: rg-azure-aws-conn

Region: East-US

IP address: Get the Outside IP address from the configuration file downloaded in 9.

Should be the Virtual Private Gateway address Extrenal. 52.72.180.147

Address Space(s): 10.0.0.0/16 (from AWS VPC main CIDR)

Home > rg-azure-aws-conn > Marketplace > Local network gateway >

Create local network gateway

Basics Advanced Review + cr	reate	
A local network gateway is a specific o more 데	bject that represents an on-premises location (the site) for routing pur	rposes. <u>Learn</u>
Project details		
Subscription *	······································	V
Resource group *	rg-azure-aws-conn	~
	Create new	
Instance details		
Region *	East US	~
Name *	local-netw-gtwy-az-aws	~
Endpoint ①	IP address FQDN	
IP address * (i)	52.72.180.147	~
Address Space(s) ①		
10.0.0.0/16		✓ 🗓 ···
Add additional address range		

11. Create the connection on the Virtual Network Gateway in Azure

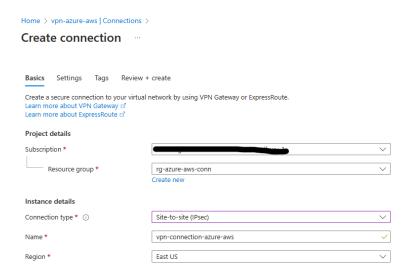
Name: vpn-connection-azure-aws Connection Type: Site-to-Site

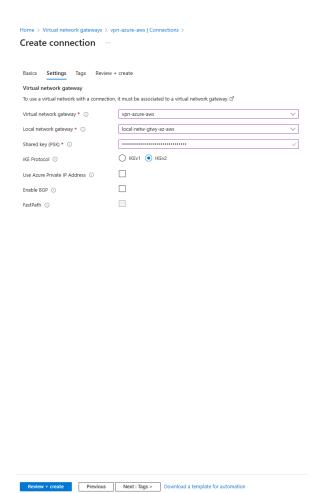
Shared Key: Get the Pre-shared key from the downloaded vpn configuration file (pick

the right tunnel)

Local Network Gateway: Select the Local Network Gateway which you created in 10. Shared Key: Get the Shared Key from the configuration file downloaded in 9. IKE Protocol: leave it as IKEv2
Wait till the Connection Status changes to - Connected

In the same way, check in AWS Console wheather the 1st tunnel of Virtual Private Gateway UP.

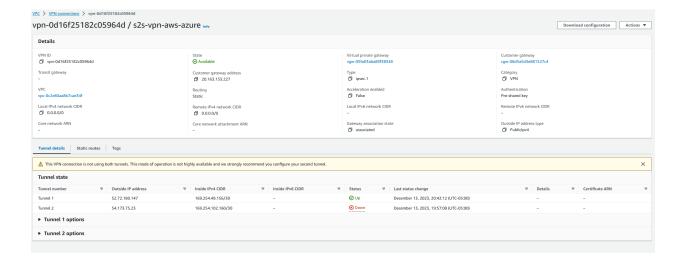




Connectivity tab under Virtual Network Gateway must show Connected on Azure side and

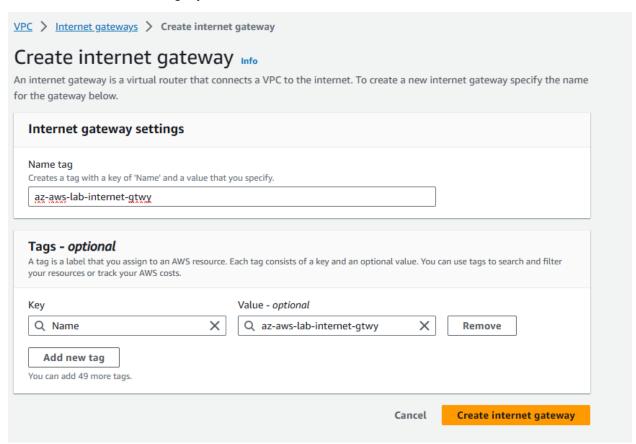


Tunnel should be up on AWS side:



12. Create Internet Gateway and Attach it to VPC in AWS

Name: az-aws-lab-internet-gtwy



13. Now let's edit the route table associated with our VPC

Add the route to Azure subnet through the Virtual Private Gateway

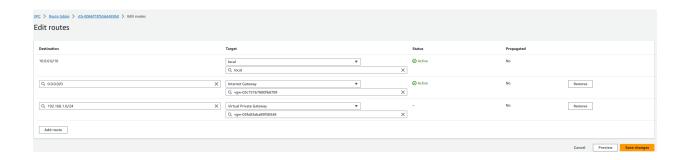
Destination: 192.168.1.0/24

Target: Virtual Private Gateway in AWS that was created

Also-

Destination: 0.0.0.0/0

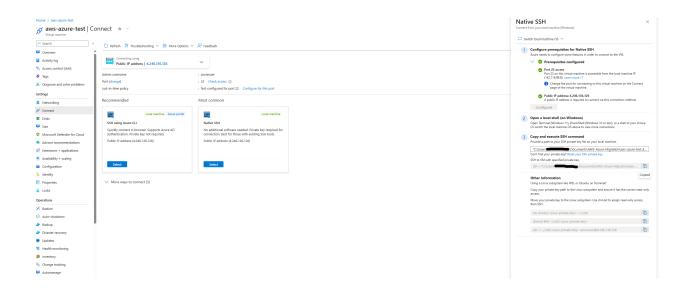
Target: Internet Gateway that we created in 12.



14. Create VMs in both Azure and AWS and Test the connection.

Make sure you can ping each other by SSH into each VM's in Azure and AWS environment.

AZURE VM Setup



AWS VM Setup

