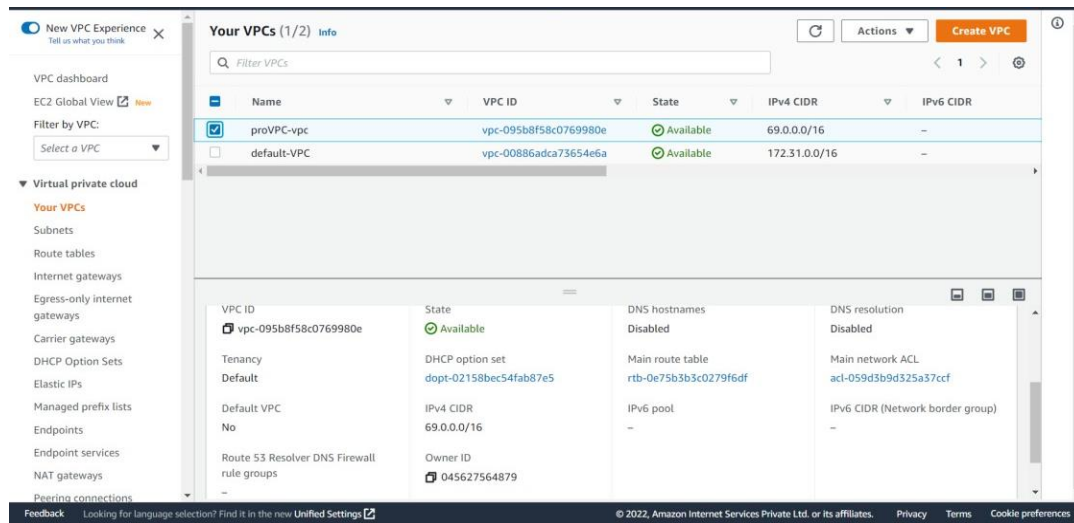


## PROJECT-3

**Setup site to site connectivity [Configure only the AWS site],  
Setup Point to site connectivity and Transit gateway.**

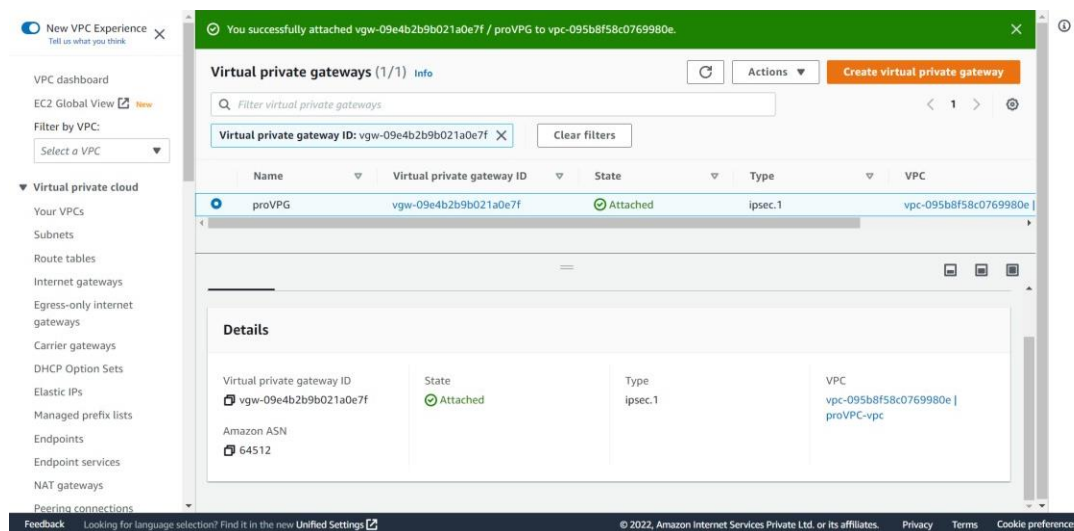
### --- SITE TO SITE CONNECTIVITY



**Your VPCs (1/2)**

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
proVPC-vpc	vpc-095b8f58c0769980e	Available	69.0.0.0/16	-
default-VPC	vpc-00886adca73654e6a	Available	172.31.0.0/16	-

**VPC ID:** vpc-095b8f58c0769980e  
**State:** Available  
**DNS hostnames:** Disabled  
**DNS resolution:** Disabled  
**Tenancy:** Default  
**DHCP option set:** dopt-02158bec54fab87e5  
**Main route table:** rtb-0e75b3b3c0279f6df  
**Main network ACL:** acl-059d3b9d325a37cfc  
**Default VPC:** No  
**IPv4 CIDR:** 69.0.0.0/16  
**IPv6 pool:** -  
**Route 53 Resolver DNS Firewall rule groups:** -  
**Owner ID:** 045627564879



**Virtual private gateways (1/1)**

Name	Virtual private gateway ID	State	Type	VPC
proVPG	vgw-09e4b2b9b021a0e7f	Attached	ipsec.1	vpc-095b8f58c0769980e   proVPC-vpc

**Details**

Virtual private gateway ID	State	Type	VPC
vgw-09e4b2b9b021a0e7f	Attached	ipsec.1	vpc-095b8f58c0769980e   proVPC-vpc
Amazon ASN			
64512			

▼ Network Firewall

Firewalls

Firewall policies

Network Firewall rule groups

▼ Virtual private network (VPN)

Customer gateways

Virtual private gateways

Site-to-Site VPN

Connections

Client VPN Endpoints

▼ AWS Cloud WAN

Network Manager

▼ Transit gateways

Transit gateways

Transit gateway attachments

Transit gateway policy tables

Transit gateway route tables

You successfully created cgw-08815625075ce42d1 / randomCG.

Customer gateways (1/1) Info

Filter customer gateways

< 1 >

ⓘ

Name	Customer gateway ID	State	BGP ASN	IP address
randomCG	cgw-08815625075ce42d1	Available	65000	23.12.45.12

cgw-08815625075ce42d1 / randomCG

Details Tags

Details

Customer gateway ID

cgw-08815625075ce42d1

State

Available

Type

ipsec.1

IP address

23.12.45.12

BGP ASN

65000

Certificate ARN

Device

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New VPC Experience

Tell us what you think

×

VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

▼ Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP Option Sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

You successfully created vpn-0896bebaee5b08359 / s2sVPN.

VPN connections (1) Info

Filter VPN connections

< 1 >

ⓘ

Download configuration

Create VPN connection

Name	VPN ID	State	Virtual private gateway	Transit gateway
s2sVPN	vpn-0896bebaee5b08359	Pending	vgw-09e4b2b9b021a0e7f	-

Select a VPN connection.

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VPC > Route tables > rtb-0e75b3b3c0279f6df > Edit route propagation

Edit route propagation

Route table basic details

Route table ID

rtb-0e75b3b3c0279f6df

Edit route propagation

Virtual Private Gateway

vgw-09e4b2b9b021a0e7f / proVPG

Propagation

Enable

Cancel Save

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Firewall policies

Network Firewall rule groups

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Transit gateways

Transit gateway attachments

Transit gateway policy tables

VPN connections (1/1) Info

Filter VPN connections

s2sVPN

vpn-0896bebaee5b08359 / s2sVPN

Details

Tunnel details

Tunnel state

Tunnel number

Outside IP

Tunnel 1

3.95.49.70

Tunnel 2

54.242.255

Download configuration

gateway. Please note these are samples, and will need modification to use Advanced Algorithms, Certificates, and/or IPv6.

Vendor

The manufacturer of the customer gateway device (for example, Cisco Systems, Inc).

Generic

Platform

The class of the customer gateway device (for example, J-Series).

Generic

Software

The operating system running on the customer gateway device (for example, ScreenOS).

Vendor Agnostic

IKE version

The IKE version you are using for your VPN connection.

ikev1

Cancel

Download

Create VPN connection

Transit gateway

change

2022, 15:45:47 (UTC+05:30)

2022, 15:45:47 (UTC+05:30)

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vpn-0896bebaee5b0...txt

Show all

Firewalls

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Transit gateway route tables

VPN connections (1/1) Info

Filter VPN connections

s2sVPN

vpn-0896bebaee5b08359

Available

vgw-09e4b2b9b021a0e7f

-

vpn-0896bebaee5b08359 / s2sVPN

Details

Tunnel details

Static routes

Tags

Tunnel state

Tunnel number

Outside IP address

Inside IPv4 CIDR

Inside IPv6 CIDR

Status

Last status change

Tunnel 1

3.95.49.70

169.254.137.60/30

-

Down

August 3, 2022, 15:45:47 (UTC+05:30)

Tunnel 2

54.242.255.180

169.254.104.116/30

-

Down

August 3, 2022, 15:45:47 (UTC+05:30)

Tunnel 1 options

Actions

Download configuration

Create VPN connection

1

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--- POINT TO SITE CONNECTIVITY

[illegible][illegible]

```
Administrator: Command Prompt

Using configuration from C:/Program Files/EasyRSA/pki/safessl-easyrsa.cnf.init-tmp
Check that the request matches the signature
Signature ok
The Subject's Distinguished Name is as follows
commonName            :ASN.1 12:'client1.domain.tld'
Certificate is to be certified until Nov  5 11:35:07 2024 GMT (825 days)

Write out database with 1 new entries
Data Base Updated

* Notice:
Certificate created at: C:/Program Files/EasyRSA/pki/issued/client1.domain.tld.crt

EasyRSA Shell
# exit

C:\Program Files\EasyRSA>mkdir C:\custom_folder

C:\Program Files\EasyRSA>copy pki\ca.crt C:\custom_folder
1 file(s) copied.

C:\Program Files\EasyRSA>copy pki\issued\server.crt C:\custom_folder
1 file(s) copied.

C:\Program Files\EasyRSA>copy pki\private\server.key C:\custom_folder
1 file(s) copied.

C:\Program Files\EasyRSA>copy pki\issued\client1.domain.tld.crt C:\custom_folder
1 file(s) copied.

C:\Program Files\EasyRSA>copy pki\private\client1.domain.tld.key C:\custom_folder
1 file(s) copied.

C:\Program Files\EasyRSA>cd C:\custom_folder

C:\custom_folder>
```

```
Administrator: Command Prompt

C:\custom_folder>aws acm import-certificate --certificate fileb://server.crt --private-key fileb://server.key --certificate-chain fileb://ca.crt
{
  "CertificateArn": "arn:aws:acm:us-east-1:045627564879:certificate/cb37c4e9-bc8e-4402-aafe-c6edcb91c3f8"
}

C:\custom_folder>aws acm import-certificate --certificate fileb://client1.domain.tld.crt --private-key fileb://client1.domain.tld.key --certificate-chain fileb://ca.crt
{
  "CertificateArn": "arn:aws:acm:us-east-1:045627564879:certificate/135ebf36-62df-41ff-9225-97f90f278d0f"
}

C:\custom_folder>
```

AWS Certificate Manager

List certificates

Request certificate

Import certificate

AWS Private CA

AWS Certificate Manager > Certificates

Certificates (2)

RefreshDeleteManage expiry eventsImportRequest

< 1 >

	Certificate ID	Domain name	Type	Status	In use?	Renewal eligibility
<input type="checkbox"/>	135ebf36-62df-41ff-9225-97f90f278d0f	client1.domain.tld	Imported	Issued	No	Ineligible
<input type="checkbox"/>	cb37c4e9-bc8e-4402-aafe-c6edcb91c3f8	server	Imported	Issued	No	Ineligible

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Peering connections

Client VPN endpoint configuration was successfully downloaded.

Client VPN endpoints (1/1)

Info

RefreshActionsDownload client configurationCreate client VPN endpoint

Filter client VPN endpoints

< 1 >

Name	Client VPN endpoint ID	State	Client CIDR
proVPN	cvpn-endpoint-076c9c2da59fe34b1	Available	69.1.0.0/16

cvpn-endpoint-076c9c2da59fe34b1 / proVPN

DetailsTarget network associationsSecurity groupsAuthorization rulesRoute tableConnectionsTags

Target network associations (1)

Info

RefreshDisassociateAssociate target network

Filter associations

< 1 >

Association ID	State	Network ID	Security groups	Endpoint ID
cvpn-assoc-023f761057234d9fe	Associated	subnet-02adcf0541e8fae2	sg-073e1bc86dba79a1c	cvpn-endpoint-

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```

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_ | \ _ | _ |

```

Amazon Linux 2 AMI

--- TRANSIT GATEWAY

**Transit gateways (1/1)** Info

Filter transit gateways

Transit gateway ID: tgw-002ea96e1ffe20bc1 Clear filters

Name	Transit gateway ID	Owner ID	State
tgw	tgw-002ea96e1ffe20bc1	045627564879	Available

**tgw-002ea96e1ffe20bc1 / tgw**

Details Flow logs New Sharing Tags

### Details

New EC2 Experience  
Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances New

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs New

AMI Catalog

Instances (1/3) Info

Search

Name

Instance ID

Instance state

Instance type

Status check

Alarm status

Availability Zone

vpc03in

i-08f57483e175a0791

Running

t2.micro

2/2 checks passed

No alarms

us-east-1c

vpc01in

i-0e5c98b5687fab3cd

Running

t2.micro

2/2 checks passed

No alarms

us-east-1a

vpc02in

i-0155d22d6371da001

Running

t2.micro

2/2 checks passed

No alarms

us-east-1b

Instance: i-0155d22d6371da001 (vpc02in)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary Info

Instance ID

i-0155d22d6371da001 (vpc02in)

IPv6 address

-

Hostname type

IP name: ip-24-1-1-217.ec2.internal

Answer private resource DNS name IPv4 (A)

-

Public IPv4 address

-

Instance state

Running

Private IP DNS name (IPv4 only)

ip-24-1-1-217.ec2.internal

Instance type

t2.micro

Private IPv4 addresses

24.1.1.217

Public IPv4 DNS

-

Elastic IP addresses

-

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SUBMITTED BY-AKASH KUMAR DASH



