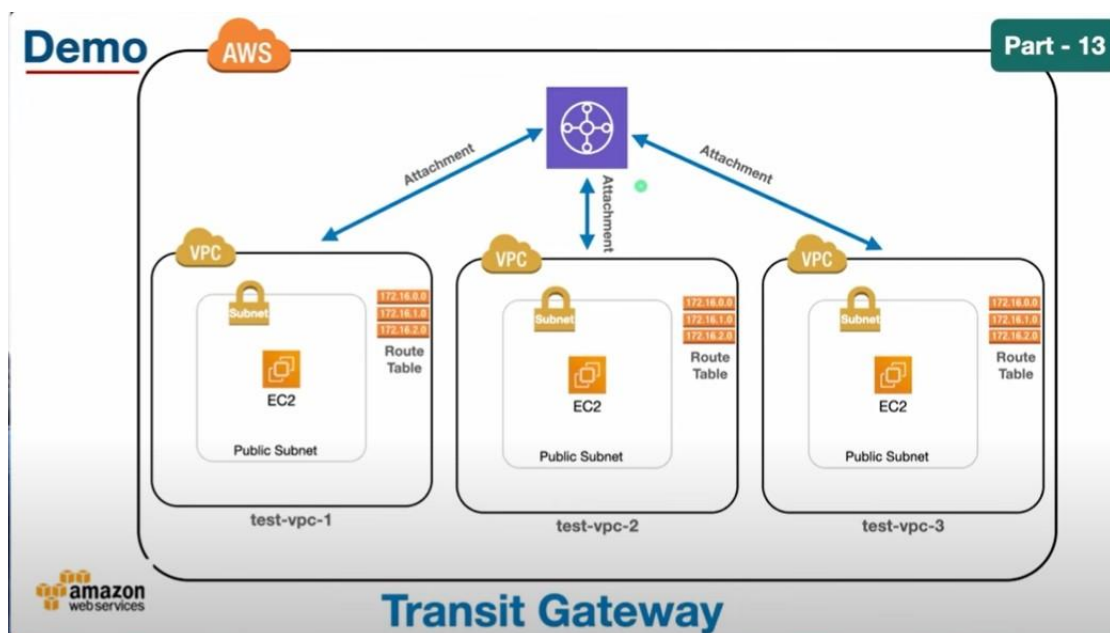


# AWS TRANSITIVE ROUTING GATEWAY DEMO

- 1) Creating Multiple VPC with a Public Subnet.
- 2) Attaching each VPC with a Internet Gateway.
- 3) Attach Route to the Route table
- 4) Creating Instance in each VPC and uploading server on it.
- 5) Creating Transitive Gateway.
- 6) Creating Transitive gateway Attachment for each VPC.
- 7) Updating Each Route table.
- 8) Testing Through EC2 Instance.



**STEP 1 :- Created VPC Setup.**

Your VPCs (1/3) Info

Q Search

<div><div></div></div>	Name	VPC ID	State	IPv4 CIDR	IPv6
<input checked="" type="checkbox"/>	VPC_1	<a href="#">vpc-09ef41c0099bd08bf</a>	<div><div></div>Available</div>	12.0.0.0/16	-
<input type="checkbox"/>	VPC_2	<a href="#">vpc-0fc6b5f518efc63cb</a>	<div><div></div>Available</div>	13.0.0.0/16	-
<input type="checkbox"/>	VPC_3	<a href="#">vpc-0cb03c3e5d6176013</a>	<div><div></div>Available</div>	14.0.0.0/16	-

**STEP 2 :- Deployed EC2 Instance.**

Instances (3) Info

Q Find Instance by attribute or tag (case-sensitive)

All states

Connect

<div><div></div></div>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	VM_VPC_1	<a href="#">i-09fe8433152e1d700</a>	<div><div></div>Running</div>	t2.micro	<div><div></div>2/2 checks passed</div>	<a href="#">View alarms</a>	ap-northeast-1c
<input type="checkbox"/>	VM_VPC_3	<a href="#">i-07749897848eda5d1</a>	<div><div></div>Running</div>	t2.micro	<div><div></div>2/2 checks passed</div>	<a href="#">View alarms</a>	ap-northeast-1a
<input type="checkbox"/>	VM_VPC_2	<a href="#">i-0ef42bf22d5b848db</a>	<div><div></div>Running</div>	t2.micro	<div><div></div>2/2 checks passed</div>	<a href="#">View alarms</a>	ap-northeast-1a

### STEP 3 :- Create Transitive Gateway.

## Create transit gateway [Info](#)

A transit gateway (TGW) is a network transit hub that interconnects attachments (VPCs and VPNs) within the same AWS account or across AWS accounts.

### Details - optional

**Name tag**  
Creates a tag with the key set to Name and the value set to the specified string.

**Description** [Info](#)  
Set the description of your transit gateway to help you identify it in the future.

### Configure the transit gateway

**Amazon side Autonomous System Number (ASN)** [Info](#)

☒ **DNS support** [Info](#)

☒ **VPN ECMP support** [Info](#)

☒ **Default route table association** [Info](#)

☒ **Default route table propagation** [Info](#)

☐ **Multicast support** [Info](#)

### Configure cross-account sharing options

☐ **Auto accept shared attachments** [Info](#)

#### Transit gateways (1) [Info](#)

<input type="checkbox"/>	Name <a href="#">✎</a>	Transit gateway ID	State
<input type="checkbox"/>	Transit_VPC1_VPC2_...	<a href="#">tgw-09f319cf05c09b24b</a>	Available

#### STEP 4 :- Creating Transitive Gateway Attachment for each VPC.

[VPC](#) > [Transit gateway attachments](#) > Create transit gateway attachment

## Create transit gateway attachment

A transit gateway (TGW) is a network transit hub that interconnects attachments (VPCs and VPNs) within the same AWS account or across AWS accounts.

### Details

**Name tag - optional**  
Creates a tag with the key set to Name and the value set to the specified string.

**Transit gateway ID** [Info](#)

**Attachment type** [Info](#)

### VPC attachment

Select and configure your VPC attachment.

☒ **DNS support** [Info](#)

☐ **IPv6 support** [Info](#)

☐ **Appliance Mode support** [Info](#)

**VPC ID**  
Select the VPC to attach to the transit gateway.

### Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Transit gateway attachments (3) <a href="#">info</a>					
<input type="text" value="Find transit gateway attachment by attribute or tag"/>					
<input type="checkbox"/>	Name <a href="#">↗</a>	Transit gateway attachment ID	Transit gateway ID	State	Resource type
<input type="checkbox"/>	T3	<a href="#">tgw-attach-017d48d8af3ff9d6d</a>	<a href="#">tgw-09f319cf05c09b24b</a>	✔ Available	VPC
<input type="checkbox"/>	T1	<a href="#">tgw-attach-059bb141bd2630da2</a>	<a href="#">tgw-09f319cf05c09b24b</a>	✔ Available	VPC
<input type="checkbox"/>	T2	<a href="#">tgw-attach-0a79aa0f1782f6995</a>	<a href="#">tgw-09f319cf05c09b24b</a>	✔ Available	VPC

### STEP 5 :- Updating each Route Table

rtb-0b578606aef9bb6f1 / Route\_3

[Details](#)
[Routes](#)
[Subnet associations](#)
[Edge associations](#)
[Route propagation](#)
[Tags](#)

Routes (4)

Destination	Target	Status	Propagated
0.0.0.0/0	<a href="#">igw-06e65f8e004f4e308</a>	Active	No
12.0.0.0/16	<a href="#">tgw-09f319cf05c09b24b</a>	Active	No
13.0.0.0/16	<a href="#">tgw-09f319cf05c09b24b</a>	Active	No
14.0.0.0/16	local	Active	No

**STEP 6 :- Testing.**

```
login as: ec2-user
Authenticating with public key "KEY11"
#
~\####_ Amazon Linux 2023
~~\#####\
~~\###|
~~\#/ https://aws.amazon.com/linux/amazon-linux-2023
~~V~'-'>
~~~
~~~
~~~
~/m/'-/
```

Last login: Fri Jun 28 10:33:54 2024 from 106.194.241.166  
[ec2-user@ip-12-0-2-76 ~]\$ curl 14.0.2.69  
<!DOCTYPE html>  
<html>  
 <head>  
 <title>Apache Web Server</title>  
 </head>  
 <body>  
 <h1>Apache Web Server</h1>  
 <p>This is a simple HTML web page.</p>  
 </body>  
</html>