Module-10: Global Accelerator Assignment - 3
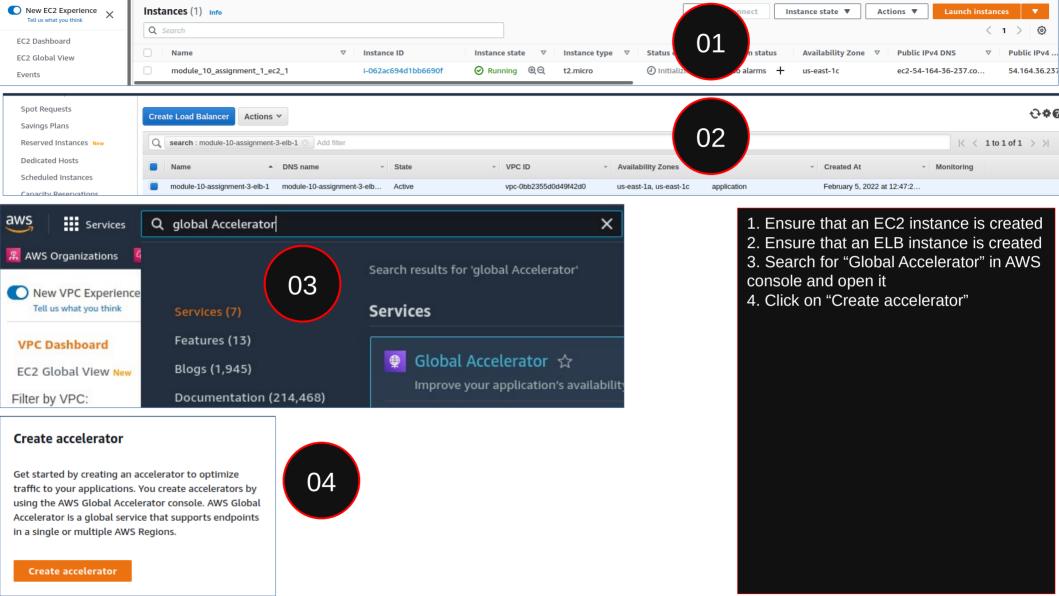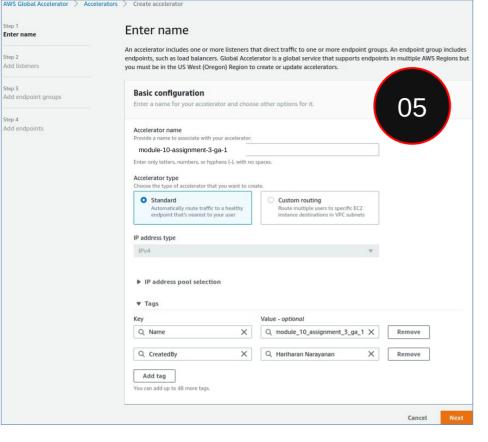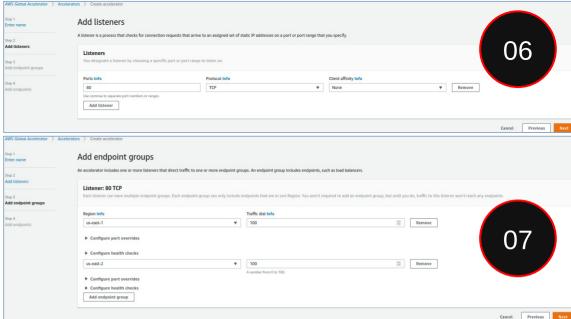
You have been asked to:

1. Create a Global Accelerator
   a) Make an EC2 instance as an endpoint
   b) Make a Load Balancer as an endpoint and should be different region than the EC2 instance

Instances (1) Info

	Name	Instance ID	Instance state	Instance type	Status	status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
	module_10_assignment_1_ec2_1	i-062ac694d1bb6690f	⊘ Running ⊕⊖	t2.micro	⏱ Initializi...	o alarms +	us-east-1c	ec2-54-164-36-237.co...	54.164.36.237

01

Create Load Balancer Actions ⌄

02

search : module-10-assignment-3-elb-1 ⊗ Add filter

	Name	DNS name	State	VPC ID	Availability Zones		Created At	Monitoring
☑	module-10-assignment-3-elb-1	module-10-assignment-3-elb...	Active	vpc-0bb2355d0d49f42d0	us-east-1a, us-east-1c	application	February 5, 2022 at 12:47:2...	

aws ▦ Services 🔍 global Accelerator| ✕

🖧 AWS Organizations

● New VPC Experience
Tell us what you think

VPC Dashboard

EC2 Global View New

Filter by VPC:

03

Search results for 'global Accelerator'

Services

Services (7)

Features (13)

Blogs (1,945)

Documentation (214,468)

🌐 Global Accelerator ☆

Improve your application's availability

1. Ensure that an EC2 instance is created
2. Ensure that an ELB instance is created
3. Search for "Global Accelerator" in AWS console and open it
4. Click on "Create accelerator"

Create accelerator

Get started by creating an accelerator to optimize traffic to your applications. You create accelerators by using the AWS Global Accelerator console. AWS Global Accelerator is a global service that supports endpoints in a single or multiple AWS Regions.

04

Create accelerator

Step 1
Enter name

Step 2
Add listeners

Step 3
Add endpoint groups

Step 4
Add endpoints

Enter name

An accelerator includes one or more listeners that direct traffic to one or more endpoint groups. An endpoint group includes endpoints, such as load balancers. Global Accelerator is a global service that supports endpoints in multiple AWS Regions but you must be in the US West (Oregon) Region to create or update accelerators.

Basic configuration
Enter a name for your accelerator and choose other options for it.

05

Accelerator name
Provide a name to associate with your accelerator.

module-10-assignment-3-ga-1

Enter only letters, numbers, or hyphens (-), with no spaces.

Accelerator type
Choose the type of accelerator that you want to create.

- Standard
  Automatically route traffic to a healthy endpoint that's nearest to your user
- Custom routing
  Route multiple users to specific EC2 instance destinations in VPC subnets

IP address type

IPv4

▶ IP address pool selection

▼ Tags

Key	Value - optional	
Name	module_10_assignment_3_ga_1	Remove
CreatedBy	Hariharan Narayanan	Remove

Add tag

You can add up to 48 more tags.

Cancel   **Next**

Step 1
Enter name

Step 2
Add listeners

Step 3
Add endpoint groups

Step 4
Add endpoints

Add listeners

A listener is a process that checks for connection requests that arrive at an assigned set of static IP addresses on a port or port range that you specify.

06

Listeners
You designate a listener by choosing a specific port or port range to listen on.

Ports Info	Protocol Info	Client affinity Info	
80	TCP	None	Remove

Use commas to separate port numbers or ranges.

Add listener

Cancel   Previous   Next

Step 1
Enter name

Step 2
Add listeners

Step 3
Add endpoint groups

Step 4
Add endpoints

Add endpoint groups

An accelerator includes one or more listeners that direct traffic to one or more endpoint groups. An endpoint group includes endpoints, such as load balancers.

07

Listener: 80 TCP
Each listener can have multiple endpoint groups. Each endpoint group can only include endpoints that are in one Region. You aren't required to add an endpoint group, but until you do, traffic to this listener won't reach any endpoints.

Region Info	Traffic dial Info	
us-east-1	100	Remove

▶ Configure port overrides
▶ Configure health checks

| us-east-2 | 100 | Remove |

A number from 0 to 100.

▶ Configure port overrides
▶ Configure health checks

Add endpoint group

Cancel   Previous   Next

---

5. Name the accelerator. Create tags as needed. Click Next
6. Add listeners to listen to 80
7. Add endpoint groups to us-east-1 and us-east-2

Step 1
Enter name

Step 2
Add listeners

Step 3
Add endpoint groups

Step 4
Add endpoints

Add endpoints

Now that you've added one or more endpoint groups, you can add endpoints to each one. If you don't have any endpoints yet, create one on the Elastic Load Balancing (ELB) console or create an EC2 instance. Endpoints must be in the same Region as the endpoint group. You must have the required permissions to view available endpoint resources.

Listener: 80 TCP

Global Accelerator routes traffic that arrives on these ports to endpoints in regional endpoint groups. All endpoints for an endpoint group must be in the same Region.

▼ Endpoint group: us-east-1
Traffic dial: 100%

Endpoint type **Info**	Endpoint **Info**	Weight **Info**	
EC2 instance ▾	i-062ac694d1bb6690f ▾	128 ⬍	Remove

Preserve client IP address **Info**
Global Accelerator preserves the client IP address for internet-facing Application Load Balancers unless you clear the check box to disable the feature. All internal Application Load Balancers and EC2 instances automatically preserve the client IP address. Make sure that your endpoints are configured to accept traffic from the preserved client IP addresses.

☑ Preserve client IP address

Application Load Balancer ▾	arn:aws:elasticloadbalancing:us-east-1:940427138775:i... ▾	128 ⬍	Remove
		A number from 0 to 255.	

☑ Preserve client IP address

[Add endpoint]

▼ Endpoint group: us-east-2
Traffic dial: 100%

ℹ️ **You don't have any endpoints in this Region.**
To route traffic to this Region, add an endpoint in the Region. Then you can add it to this endpoint group and traffic can be routed to the Region. ✕

Cancel   Previous   **Create accelerator**

08

Accelerators (1)

🔍 Find accelerators

View details   Edit   Delete   ↻ ▾   **Create accelerator**

‹ 1 › ⚙️

Name ▽	Type ▽	Static IP addresses	Enabled	DNS name	Status	Edited ▽
⭘ module-10-assignment-3-ga-1	Standard	15.197.150.245, 3.33.151.125	On	aabfd8a141df47a47.awsglobalaccelerator.com	◔ In progress	Saturday, February 5, 2022 7:31 AM GMT

09

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8. Add the EC2 instance and ELB instance created in (1) and (2) as endpoints. Click on "Create accelerator"
9. Verify that global accelerator is created correctly. This will take some time to show status as "deployed"