


# AWS Global Accelerator



**AWS**

Global Accelerator

ROAD

AWS Global Accelerator is a service that improves the availability and performance of your applications with local or global users.

It provides static IP addresses that act as a fixed entry point to your application endpoints in a single or multiple AWS Regions:


- Application Load Balancers
- Network Load Balancers
- Amazon EC2 instances

**How does AWS Global Accelerator do it?**

- AWS Global Accelerator uses the AWS global network : Optimizes the performance of your traffic by as much as 60%.
- Test the performance benefits from your location with a speed comparison tool:
- URL : <https://speedtest.globalaccelerator.aws/#/>
- AWS Global Accelerator continually monitors the health of your application endpoints and redirects traffic to healthy endpoints in less than 30 seconds.

**AWS Global Accelerator**

Speed Comparison



**About this tool**

AWS Global Accelerator is a service that improves the availability and performance of your applications. This tool compares Global Accelerator to the public internet. Choose a file size to see the time to download a file from application endpoints in different AWS Regions to your browser.

Files are downloaded over HTTPS/TCP from Application Load Balancers (ALBs) in different AWS Regions to your browser. [Learn more](#)

Choose a file size and click "Start" to start the tests: 100KB Start

We welcome suggestions for how to improve this tool. [Provide feedback](#)

Results may differ when you run the test multiple times. Download times can vary based on factors that are external to Global Accelerator, such as the quality, capacity, and distance of the connection in the last-mile network that you're using.

Benefits of using AWS Global Accelerator


**Improve global application availability :** AWS Global Accelerator continually monitors the health of your application endpoints.

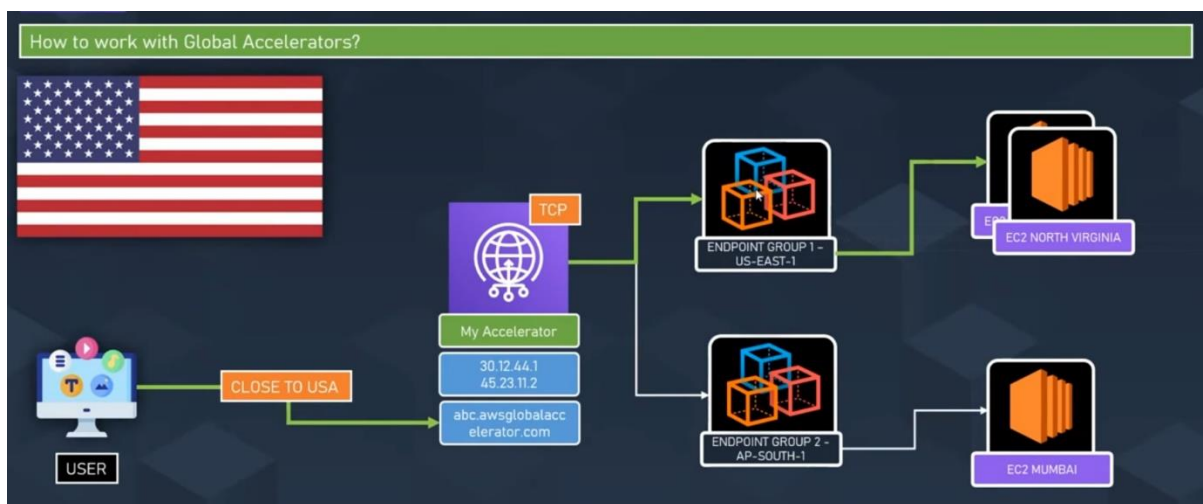
**Accelerate your global applications :** AWS Global Accelerator optimizes the network path.

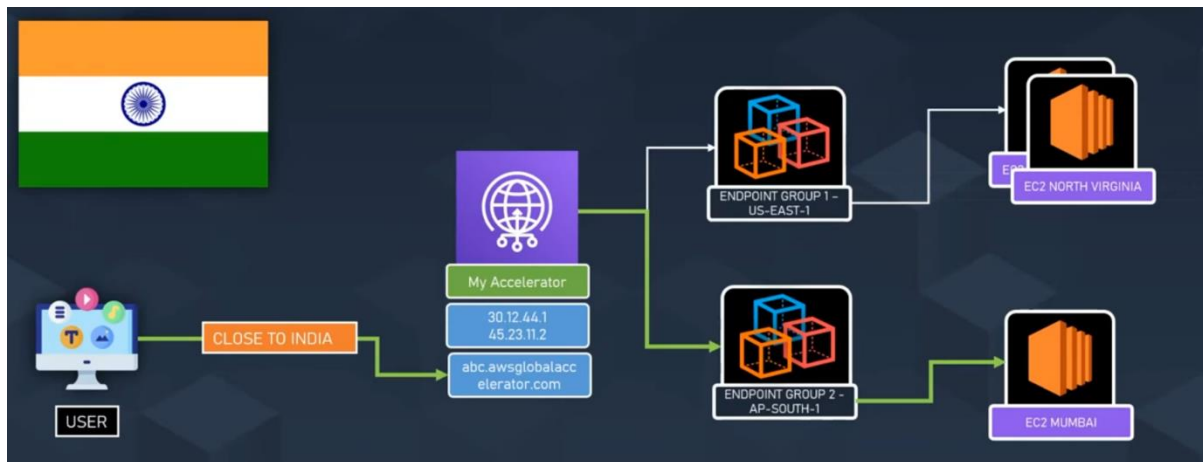
**Easily manage endpoints:** AWS Global Accelerator's static IP addresses make it easy to move endpoints between Availability Zones or AWS Regions without needing to update your DNS configuration or change client-facing applications.

**Provides very low latency for a great user experience:**

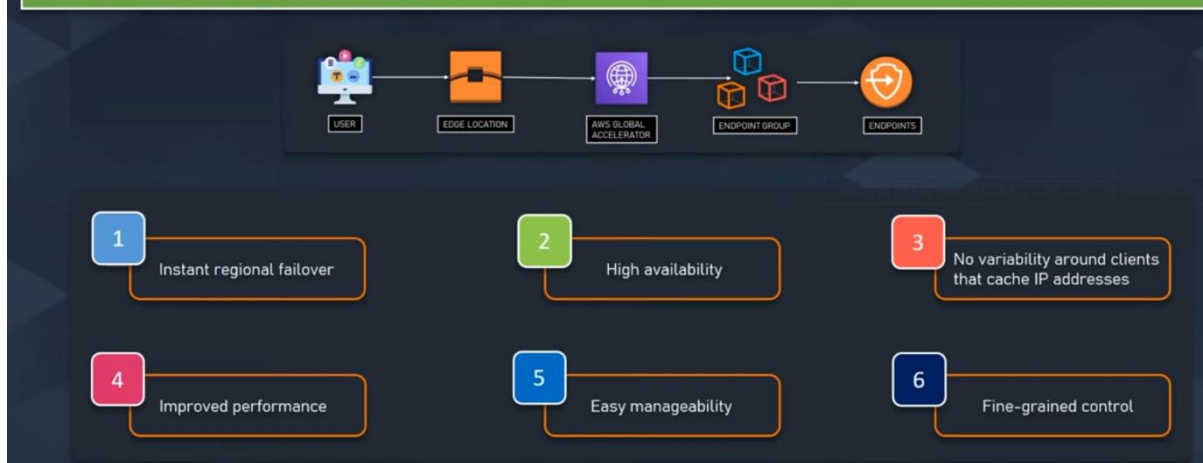
1. It routes the traffic to the closest edge location via **Anycast**, then by routing it to the closest regional endpoint over the AWS global network
2. Example : gaming, media, mobile applications, and financial applications







#### Some more benefits for AWS Global Accelerators



#### AWS Global Accelerator vs AWS CloudFront

AWS Global Accelerator	AWS CloudFront
<p>AWS Global Accelerator and Amazon CloudFront are separate services that use the AWS global network and its edge locations around the world.</p> <p>Both services integrate with AWS Shield for DDoS protection</p>	
<p>Global Accelerator improves performance for a wide range of applications over TCP or UDP by proxying packets at the edge to applications running in one or more AWS Regions</p> <p>Global Accelerator is a good fit for non-HTTP use cases -- Gaming (UDP), IoT (MQTT), or Voice over IP.</p> <p>HTTP use cases that specifically require static IP addresses or deterministic, fast regional failover.</p>	<p>CloudFront improves performance for both cacheable content (such as images and videos) and dynamic content (such as API acceleration and dynamic site delivery)</p> <p>Content is provisioned at the Edge locations.</p>