Reference:

FAQs

Category:

Networking and Content Delivery

AWS Global Accelerator

What?

- AWS Global Accelerator is a service that improves the availability and performance of your applications.
- It provides static IP addresses that act as a fixed entry point to your application endpoints in a single or multiple AWS Regions, and uses the AWS global network to optimize the path from your users to your applications.

Why?

- Global Accelerator uses the AWS global network to route traffic to the optimal regional endpoint based on health, client location, and policies that you configure, which increases the availability of your applications.
- It allows you to easily move endpoints between AZs or AWS Regions without needing to update your DNS configuration.

When?

- You want to take advantage of the vast, congestion-free AWS global network for best application performance.
- You need fixed static IP addresses for your applications without complexity of manging different regional an AZ IPs.
- You need disaster recovery for multi-Region & multi-Availability Zone resiliency by monitoring health of application.

Where?

- AWS Global Accelerator is a global service that supports endpoints in a single or multiple AWS Regions.
- It supports following endpoints - Network Load Balancers, Application Load Balancers, Amazon EC2 instances, or Elastic IP addresses.

Who?

- You create a accelerator by defining listener, endpoint group, traffic dial, endpoints and health check.
- Global Accelerator automatically re-routes your traffic to your nearest healthy available endpoint to mitigate endpoint failure.

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How?

- It uses static IP addresses that serve as a fixed entry point to your applications hosted in one or more AWS Regions.
- These IP addresses are anycast from AWS edge locations, so they're announced from multiple AWS edge locations at the same time. This enables traffic to ingress onto the AWS global network as close to your users as possible.

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How much?

- Charges are determined by two factors - Fixed fee: for every full or partial hour when an accelerator runs in your account and Data Transfer-Premium fee (DT-Premium): this is a rate per gigabyte of data transferred over the AWS network.
- The DT-Premium fee is in addition to normal EC2 Data Transfer Out fees.