

A unique opportunity for you to be mentored by Amazonians

Week 5
15-Oct-2022



Training



Motivation



Direction



Success



Advice



Goal



Coaching



Support



Agenda

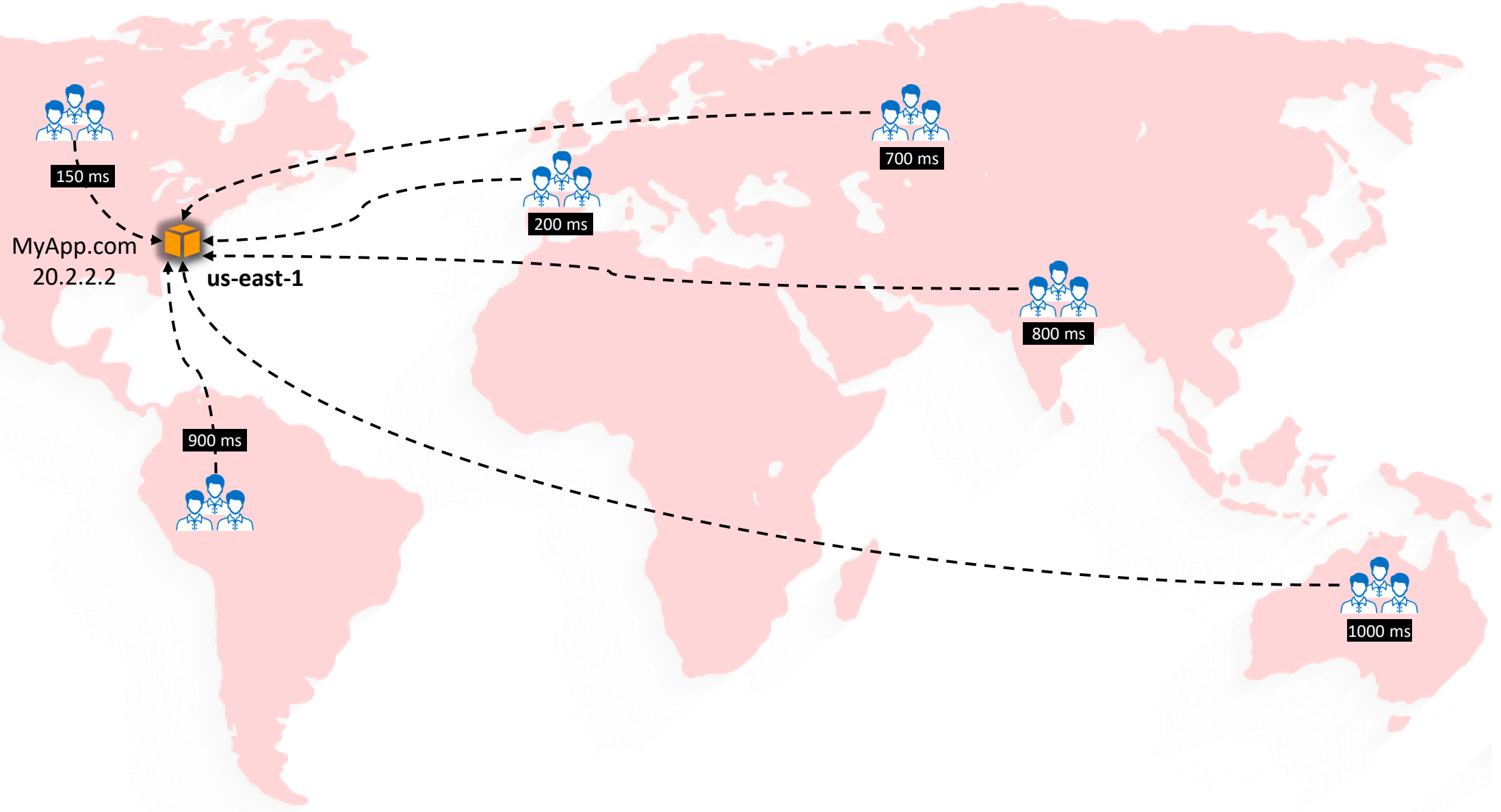
Technical Track (60 Mins)

- AWS Global Accelerator
 - › Ashish Prajapati

Behavioural Track (30 Mins)

- Why it is important to ask questions during interviews?
 - › Jamila and Prasad

A typical workload in AWS



AWS Global Accelerator



AWS Global
Accelerator

- A network layer service that you can deploy in front of your Internet facing applications to improve **availability** and **performance** for your globally distributed users.
- Features
 - Continuous availability monitoring
 - Avoid DNS caching issues
 - Simplified global traffic management
 - Uses Anycast IP address
 - Easy to setup and manage

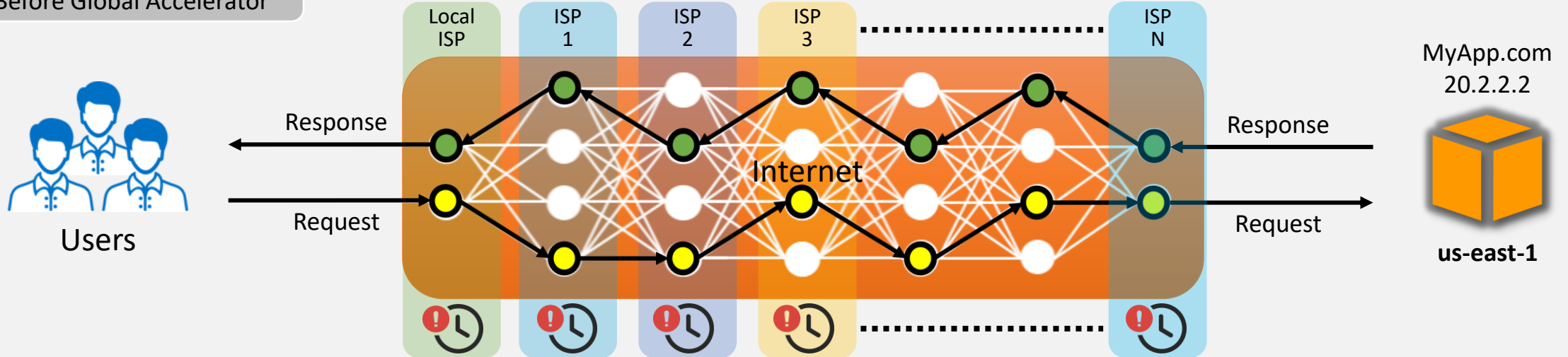
AWS Global Accelerator

Speed Comparison



Traffic Flow – Before and after AWS Global Accelerator

Before Global Accelerator

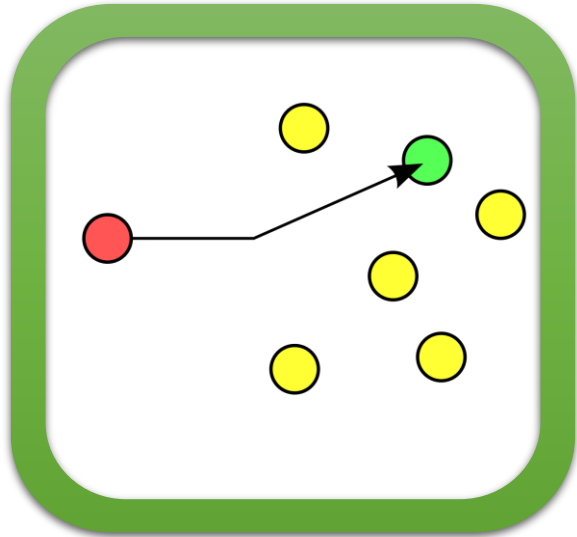


After Global Accelerator



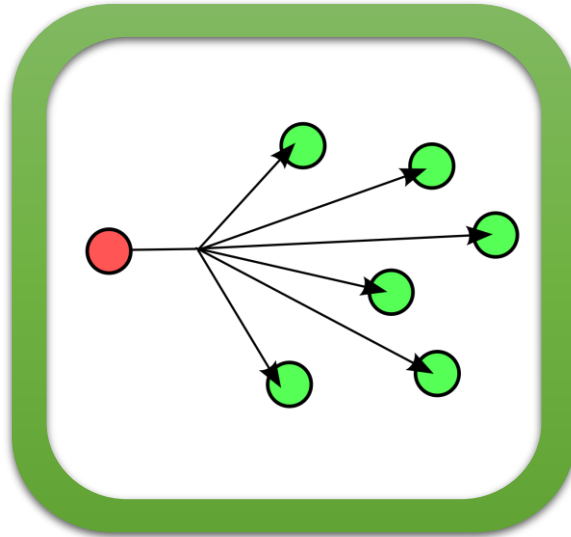
AWS Global Accelerator uses Anycast Communication

Unicast



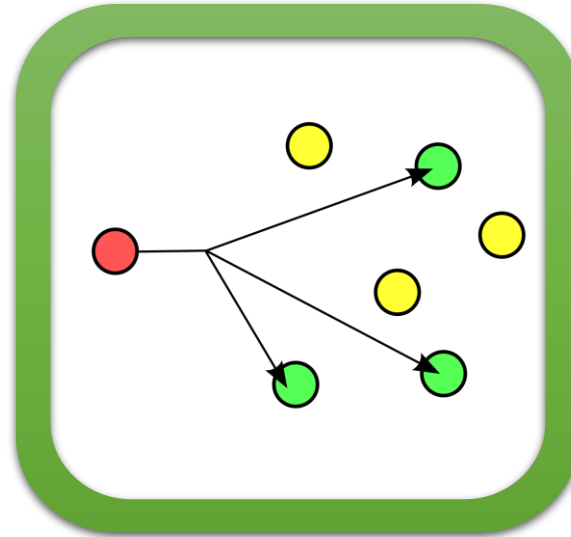
One-to-One
Communication

Broadcast



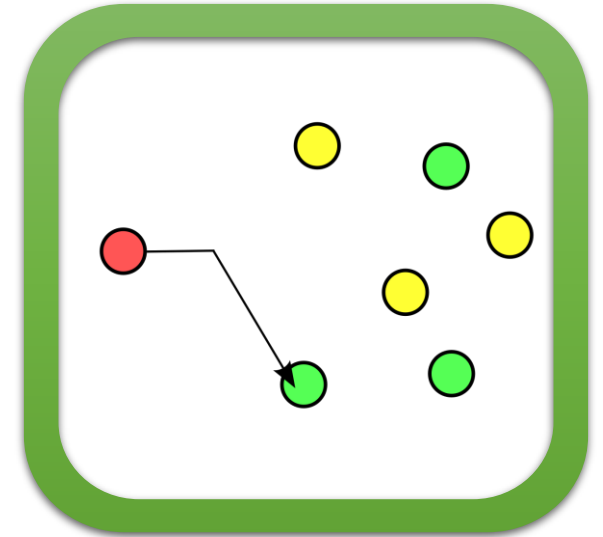
One-to-All
Communication

Multicast



One-to-Many
Communication

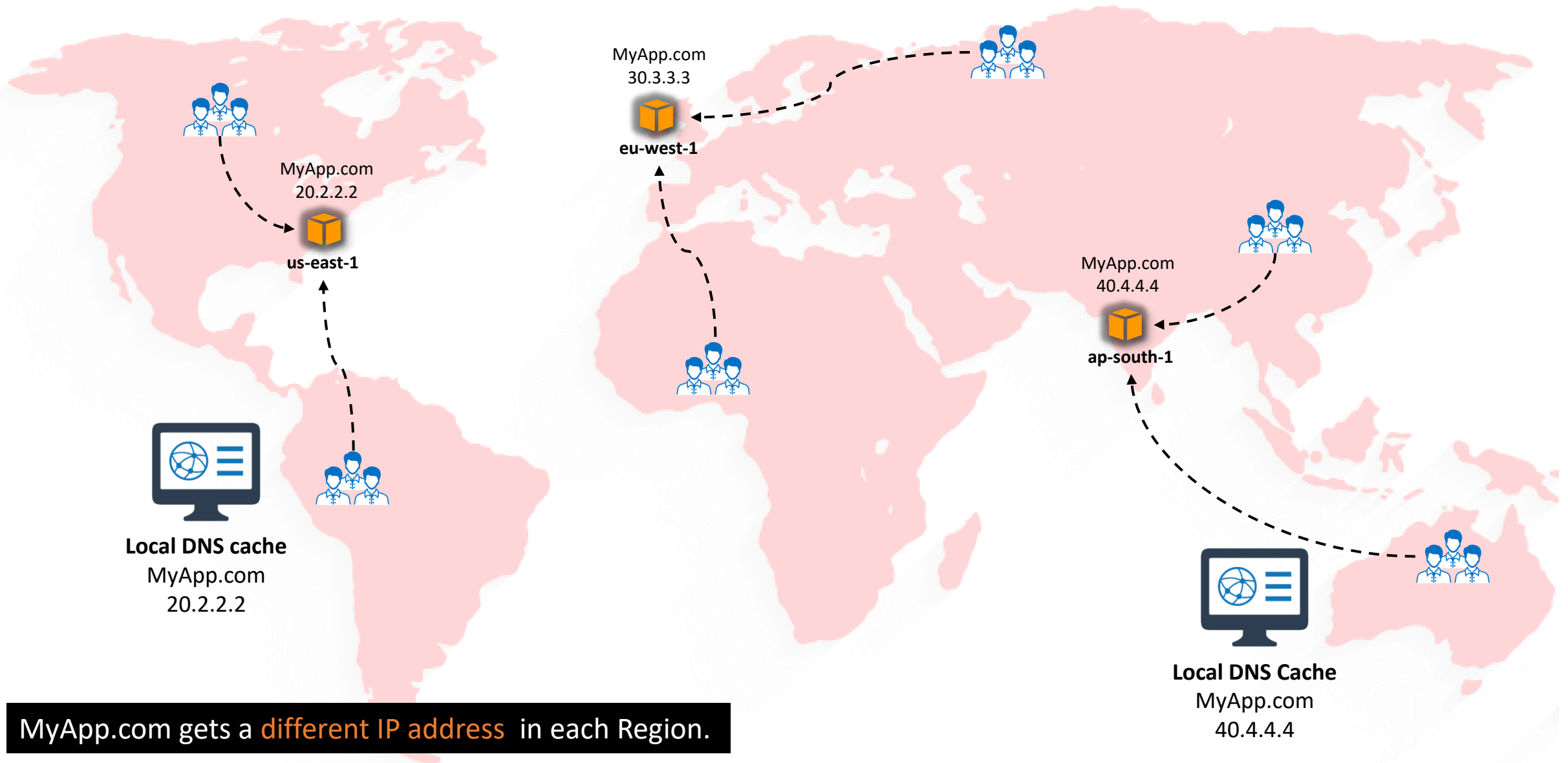
Anycast



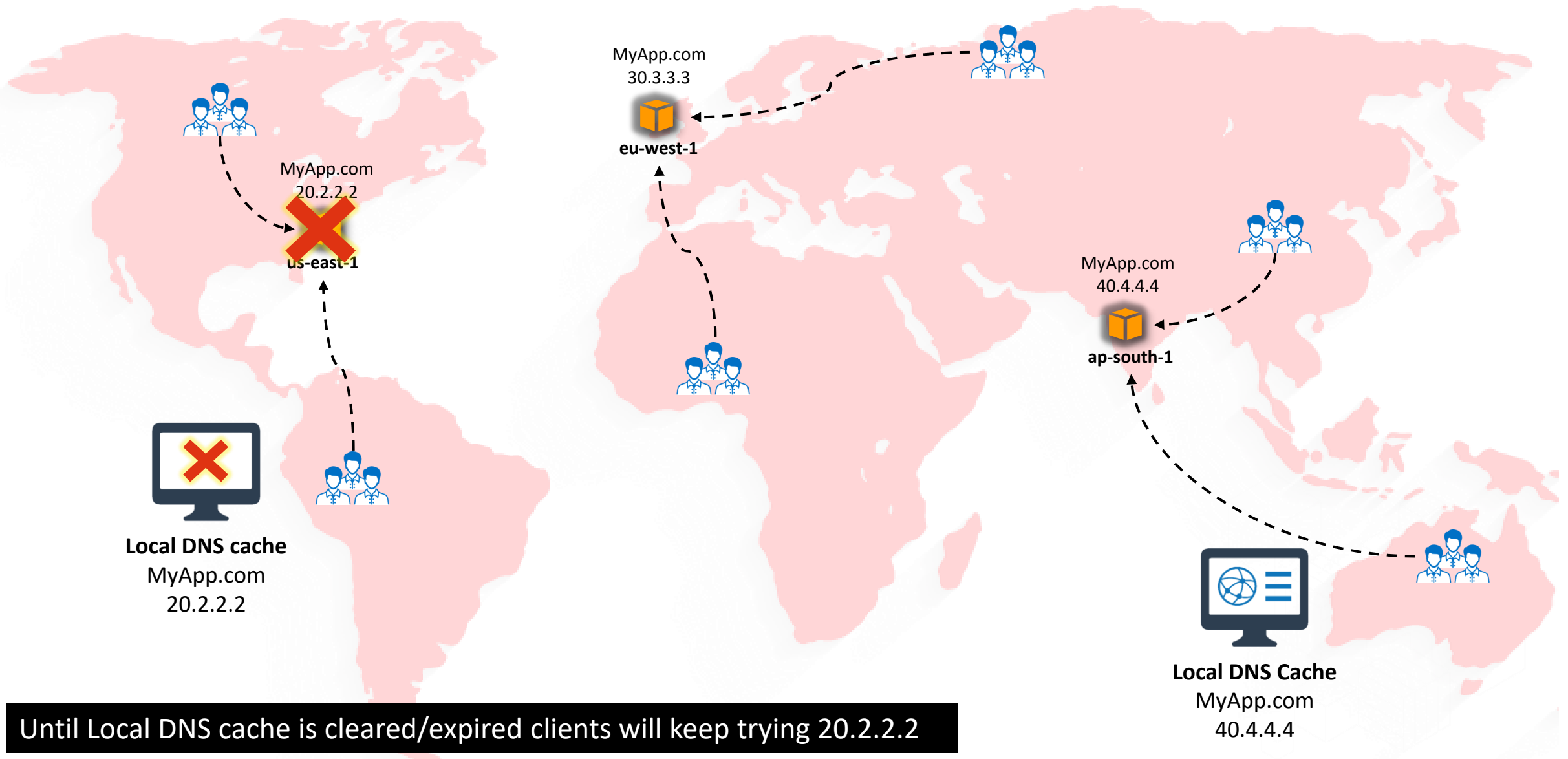
One-to-nearest
Communication

Anycast - Requests are routed to the nearest member of an anycast group.

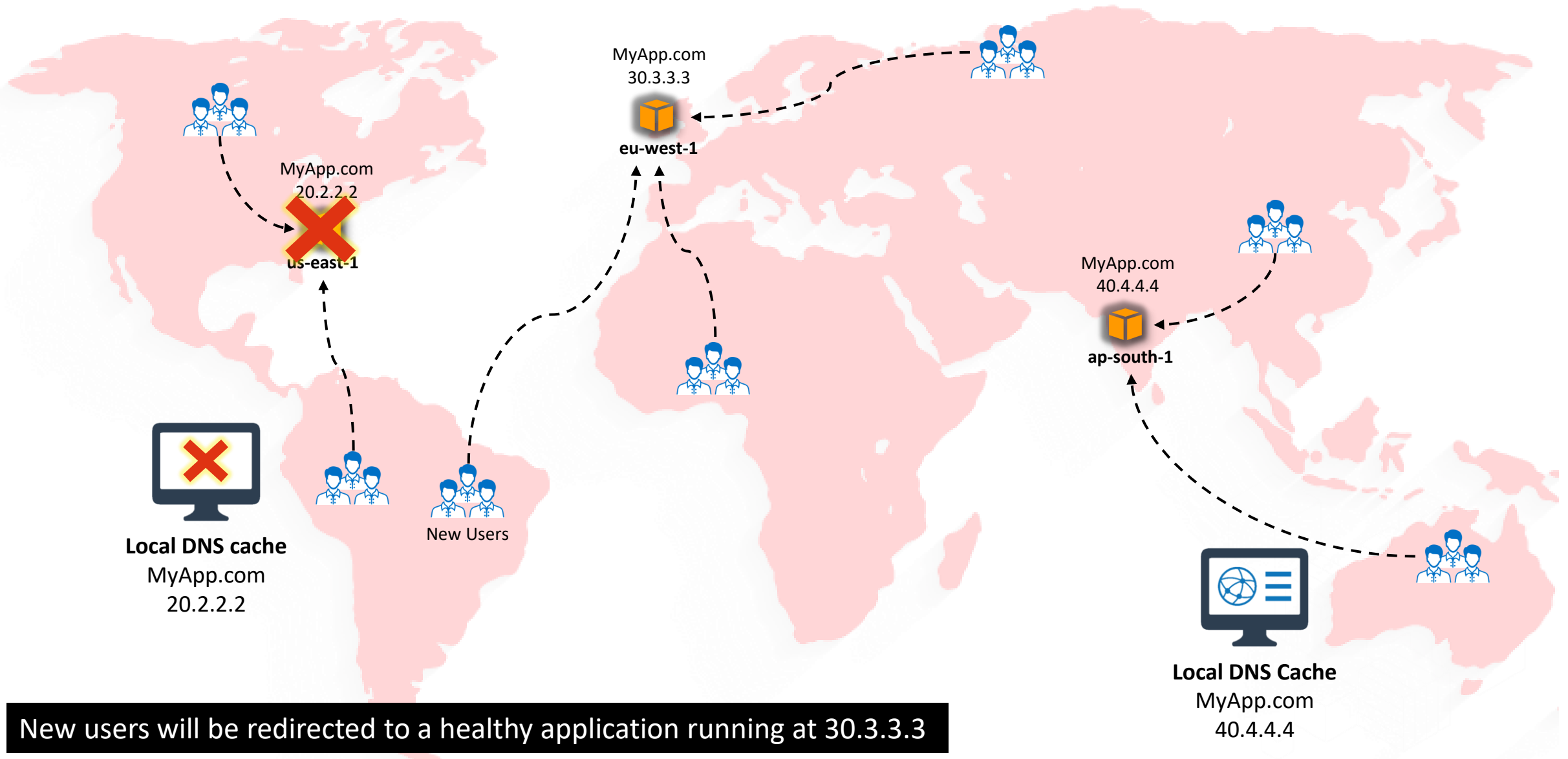
A Multi-Region Application **without** AWS Global Accelerator



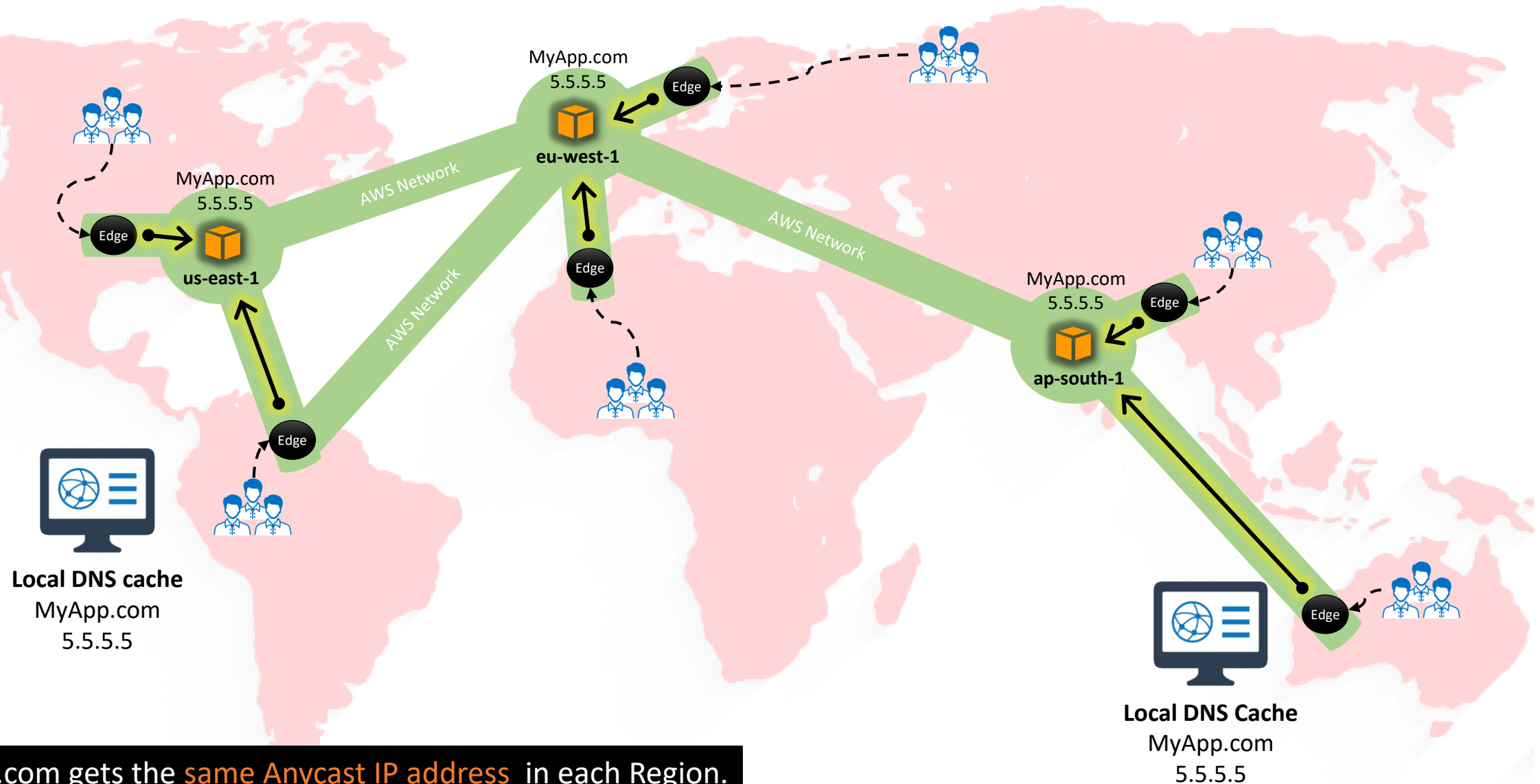
A Multi-Region Application **without** AWS Global Accelerator – **Region Failure**



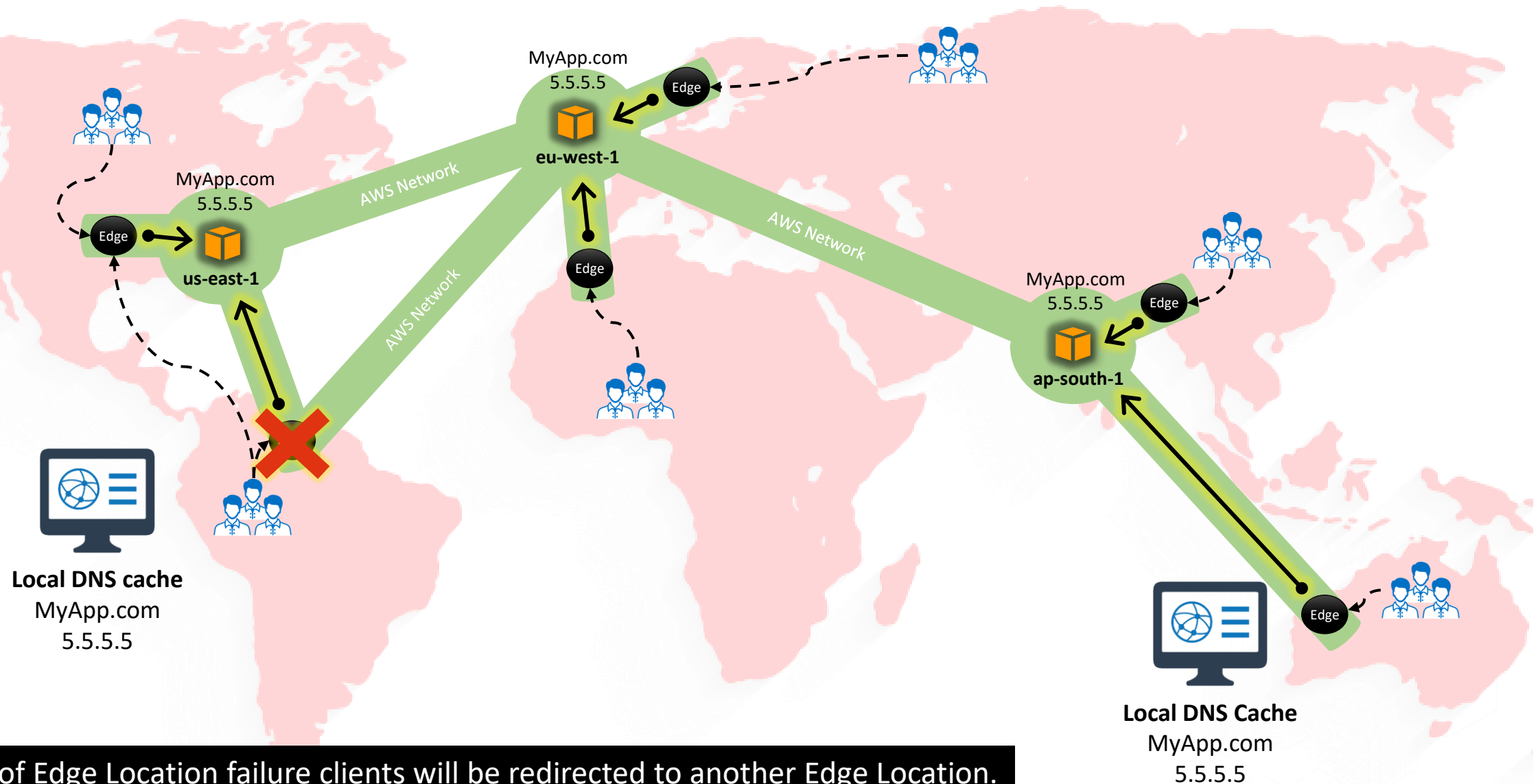
A Multi-Region Application **without** AWS Global Accelerator – **Region Failure**



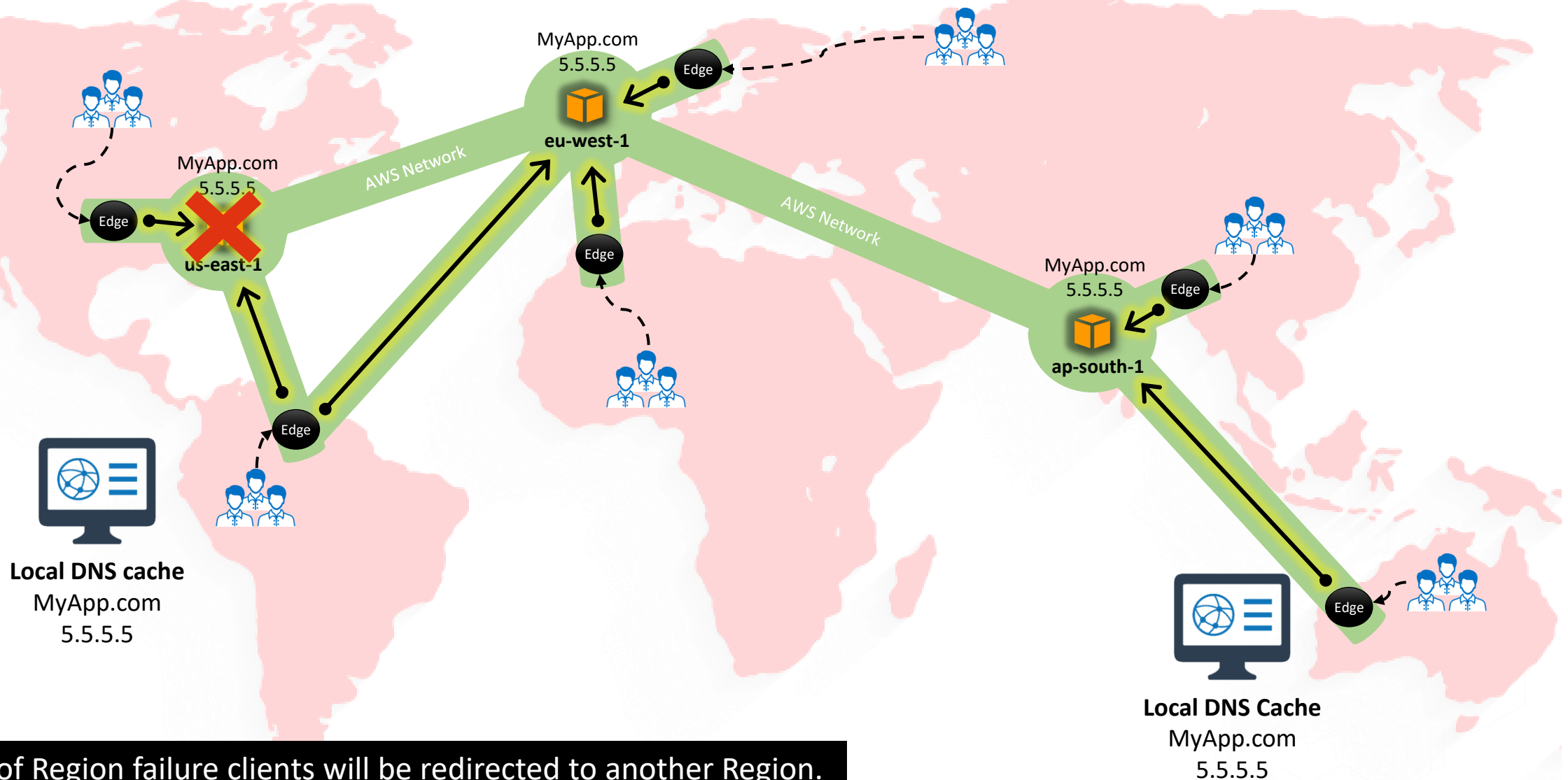
A Multi-Region Application with AWS Global Accelerator



A Multi-Region Application with AWS Global Accelerator – Edge Failure



A Multi-Region Application with AWS Global Accelerator – **Region Failure**



UserData Script

```
#!/bin/bash
```

```
yum update -y
```

```
yum install httpd -y
```

```
service httpd start
```

```
chkconfig httpd on
```

```
cd /var/www/html
```

```
echo "<html><body><h2><p><font color='red'>IP Address</font></p>" > index.html
```

```
curl http://169.254.169.254/latest/meta-data/public-ipv4 >> index.html
```

```
echo "<br />"
```

```
echo "<br /> <br /> <p><font color='blue'>Availablity Zone</font></p>" >> index.html
```

```
curl http://169.254.169.254/latest/meta-data/placement/availability-zone >> index.html
```

```
echo "</h2></body></html>" >> index.html
```



Metadata_v1.txt



<https://geopeeker.com/>

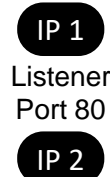
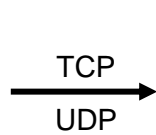
Traffic Distribution

<https://geopeeker.com/>

- The **traffic dial** lets you cut off a percentage of **traffic**—or all **traffic**—to the group, by "**dialing** down" **traffic** that the **accelerator** has already directed to it based on other factors, such as proximity.
- You use weights, on the other hand, to set values for individual endpoints within an endpoint group.



Users



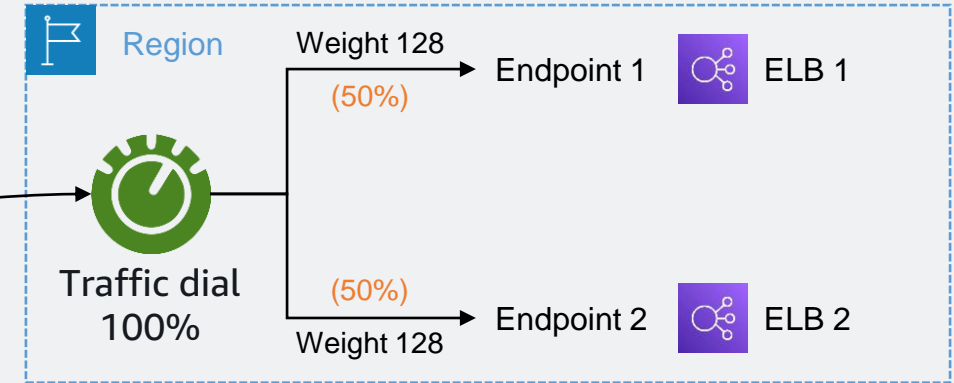
IP 1
Listener
Port 80
IP 2



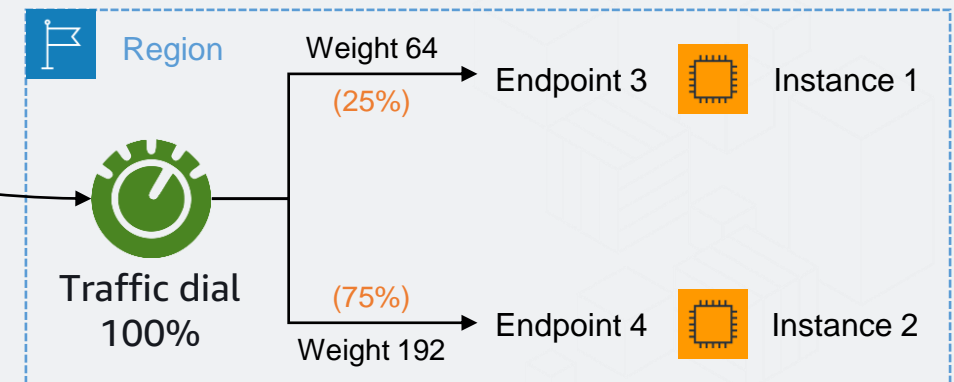
AWS Global
Accelerator

	Traffic Dial Values	Weight Values
Default	100%	128
Min	0%	0
Max	100%	255

Endpoint group A – **us-east-1**



Endpoint group B – **ap-south-1**





Why it is important to ask questions during interviews?

Jamila and Prasad



Thank you.

See you next week.