

Live Stream – 9 AM GMT (Starting Soon)



Become a Solutions Architect

Week 1
11-Feb-2023



Training



Motivation



Direction



Success



Advice



Goal



Coaching



Support

Introduction - Program and Team

- What?

- [BeSA Website](#) and FAQ page

- Who?

- Core Team

- Ashish Prajapati, James Eastham, Jamila Jamilova and Prasad Rao

- Extended Team

- Abhijeet Patwardhan, Ferdi Rezvan, Fernando Goncalves, Giuseppe Battista, Michelle Chismon

- Why?

- We are passionate about mentoring
 - Giving back to community

- When?

- Every Saturday 9 AM GMT

- Where?

- Live Session – Twitch
 - Recorded Videos – YouTube
 - Resources – BeSA Website
 - Communication – LinkedIn Group

- How?

- Stage 1 – 8 Weeks
 - Technical Track, Networking Track
 - Hands On
 - Stage 2 – 4 Weeks
 - Behavioural Track

- How much?

- No cost
 - You manage cost of your AWS account if you use it for practice



Disclaimers

- This is not a job guarantee program.
- This program is not affiliated with AWS. It is created by volunteers who work at AWS.
- Views shared by us are our own and do not represent our employer.
- In case of any conflicting information always refer to the official AWS Documentation.
- Program is run on best effort basis.





Become a Solutions Architect



Week 1 - Agenda

1. Technical Track (45 Min)
2. Networking Track (40 Min)
3. Hands On (30 Min)



Become a Solutions Architect

What is Cloud Computing?





Look forward by looking back...

- 100 years ago every electricity consumer built & maintained their own power station. **(Really!)**



Challenges...

1



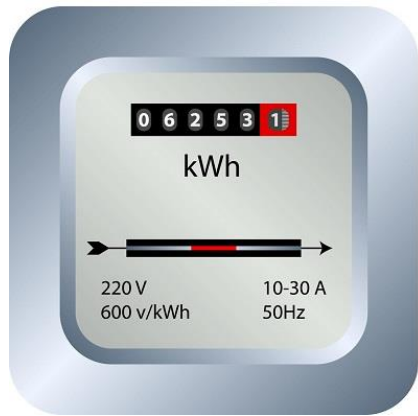
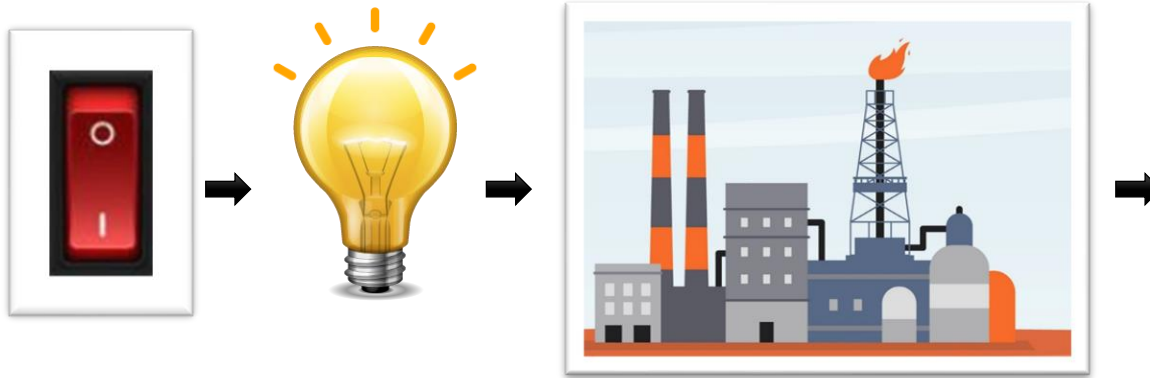
Initial Cost

2

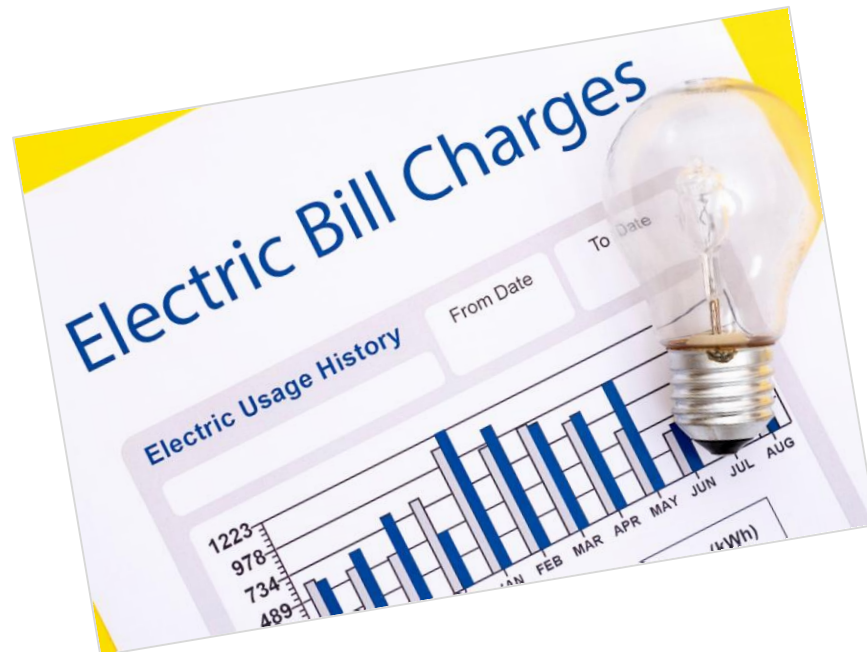


Ongoing Maintenance

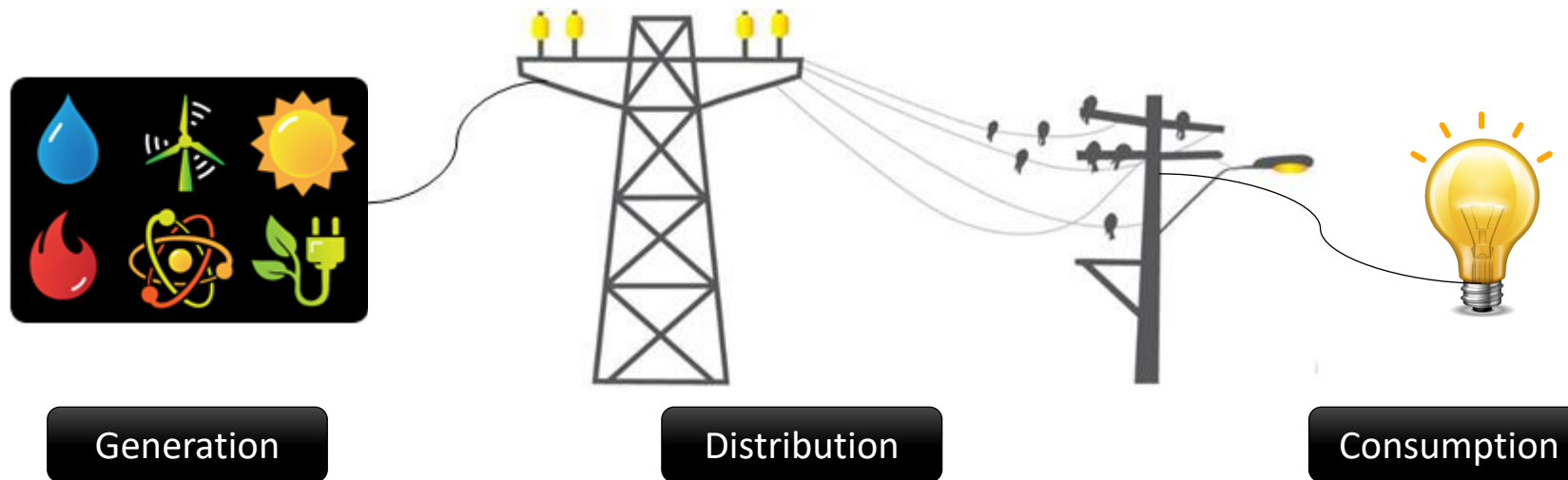
Now we just press a button



Pay as you use



Let's Compare



What is AWS?

- Cloud Platform
- Publicly Available from 2006
- Global Presence
- 200 + Services
- Utility Pricing
- Free Tier to get started



AWS Services Stack



Platform
Services

Databases

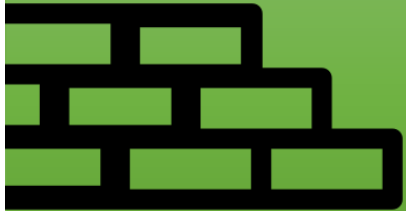
Analytics

App Services

Deployment

Mgmt.

Many More...



Foundation
Services

Compute

Networking

Storage



Global
Infrastructure

Regions

Availability
Zones

Edge
Locations



AWS Global Infrastructure

AWS Global Infrastructure



The AWS Cloud spans
99 Availability Zones within
31 geographic regions.*

AWS Global Infrastructure

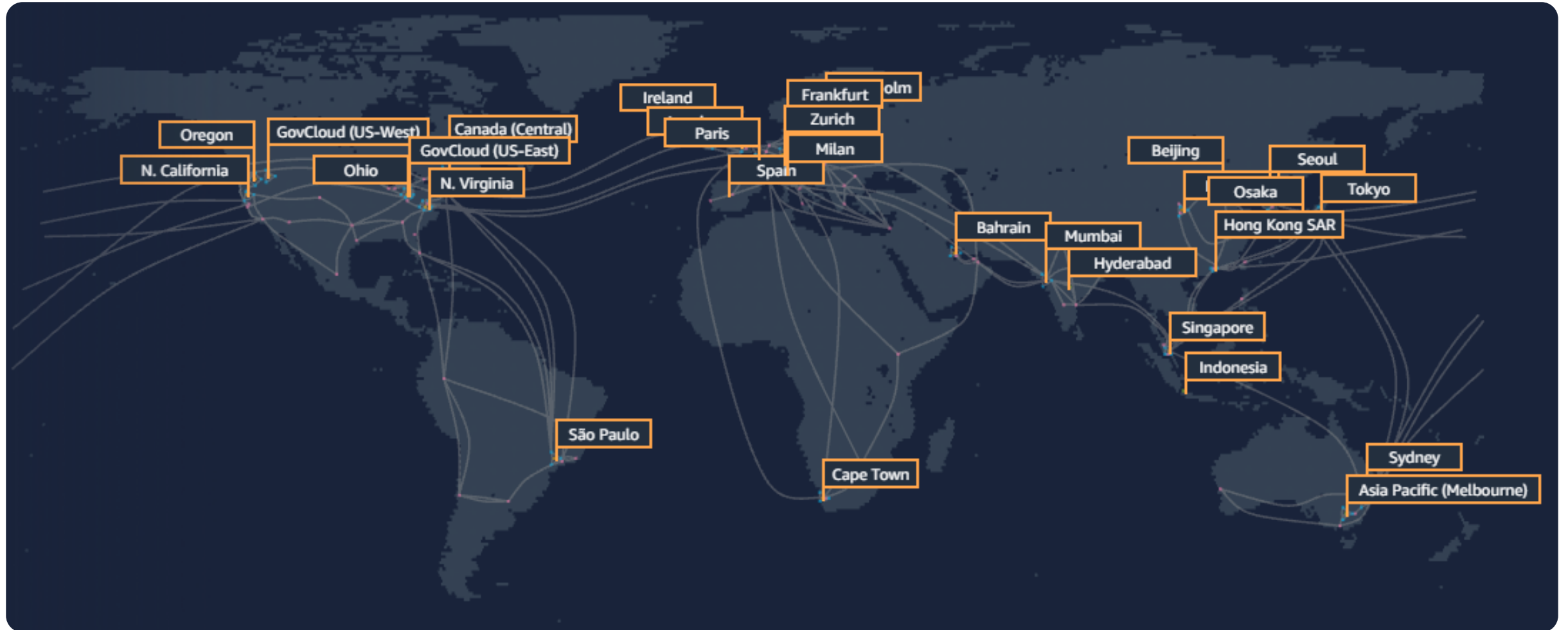


3 D View



* As of 31-Jan-2023

AWS Global Infrastructure



<https://aws.amazon.com/about-aws/global-infrastructure/>

<https://apps.kaonadn.net/5181491956940800/index.html>



AWS Datacenter

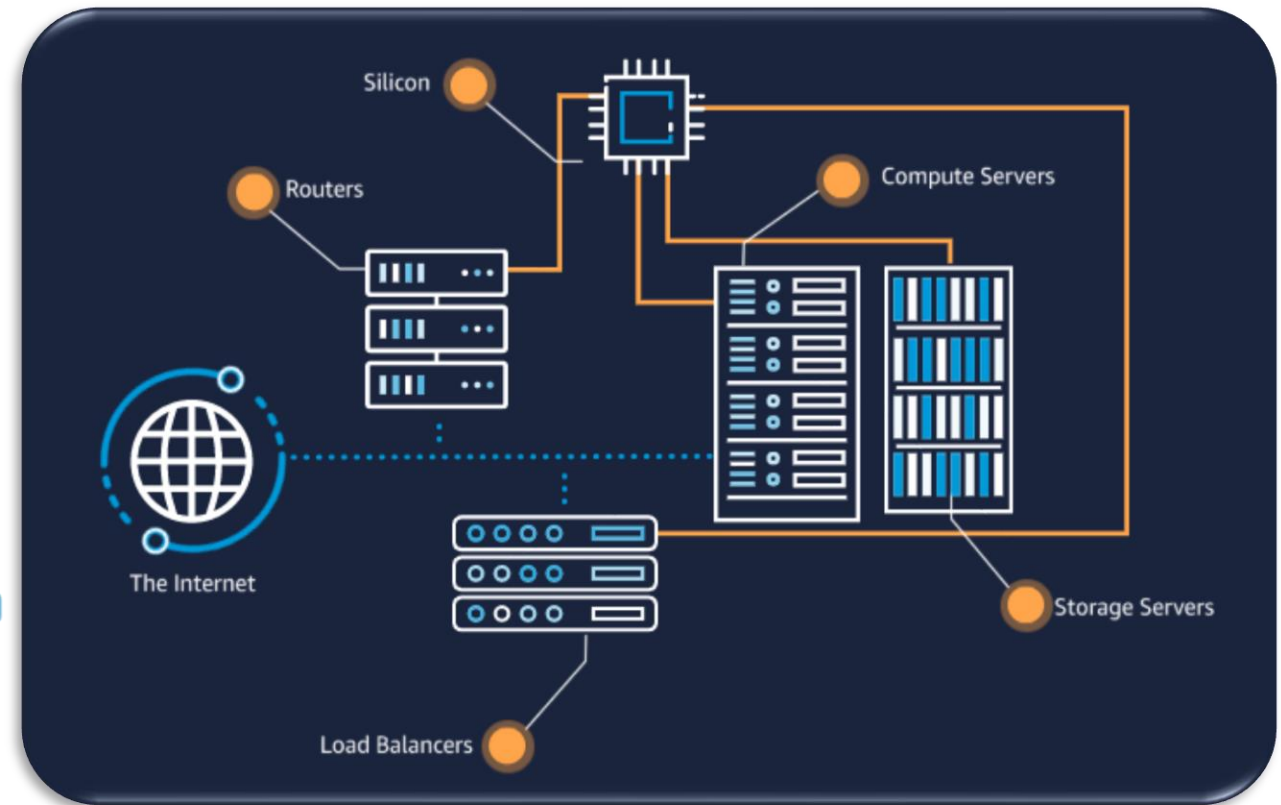


Server Racks



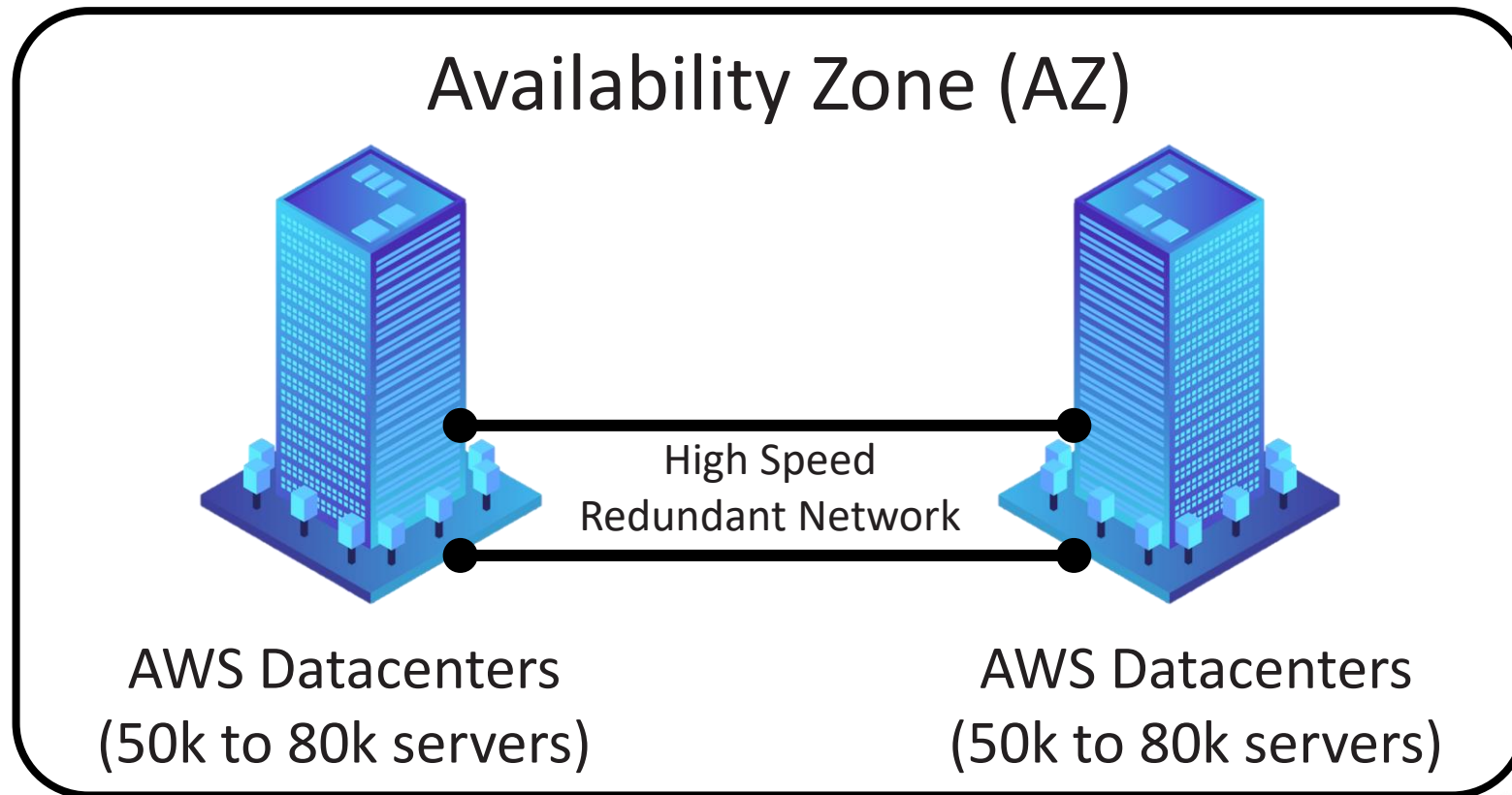
Datacenter

50k to 80k Servers and required components
(e.g. storage/network)

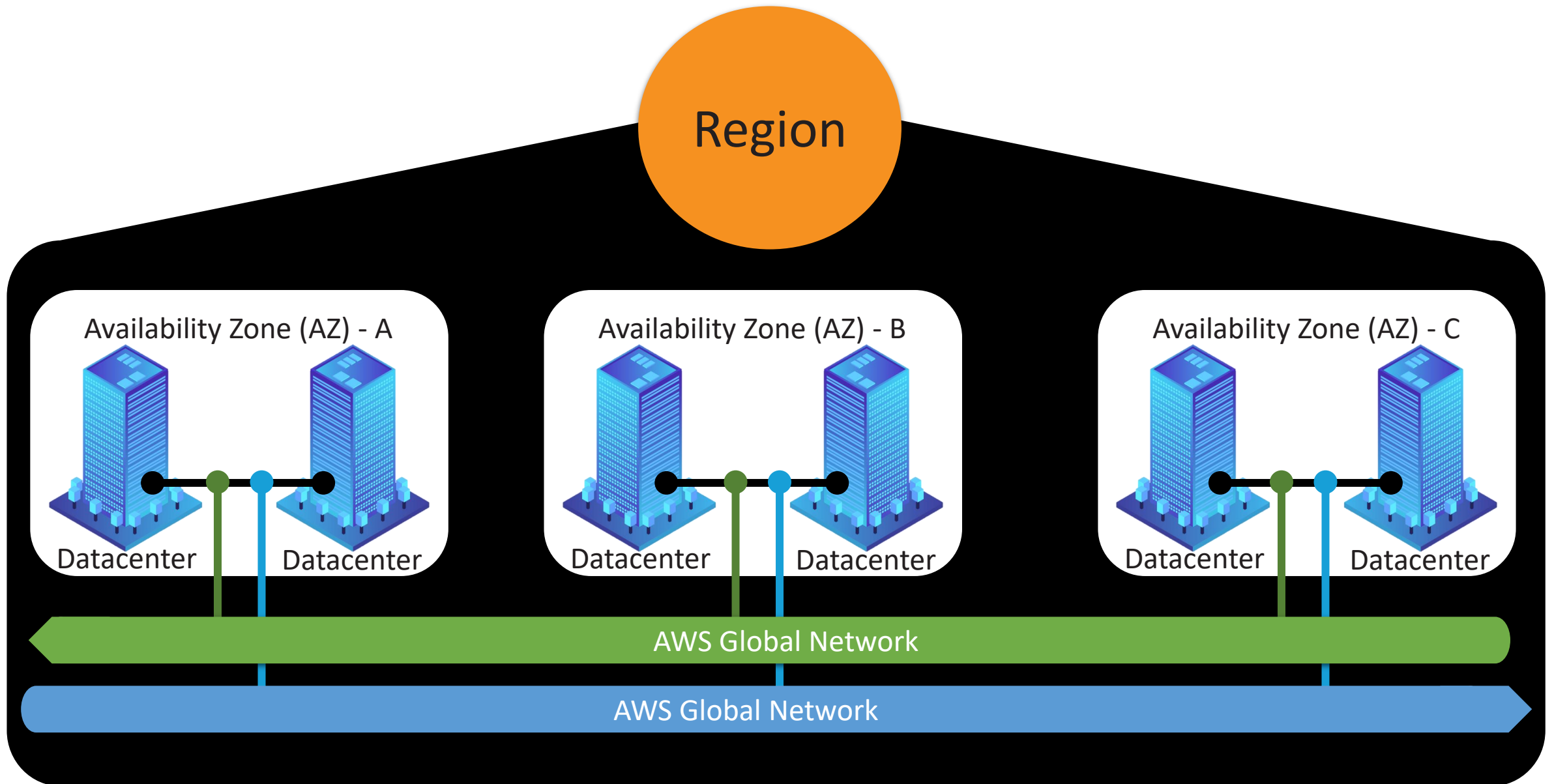


Availability Zone (AZ) – Group of Datacenters

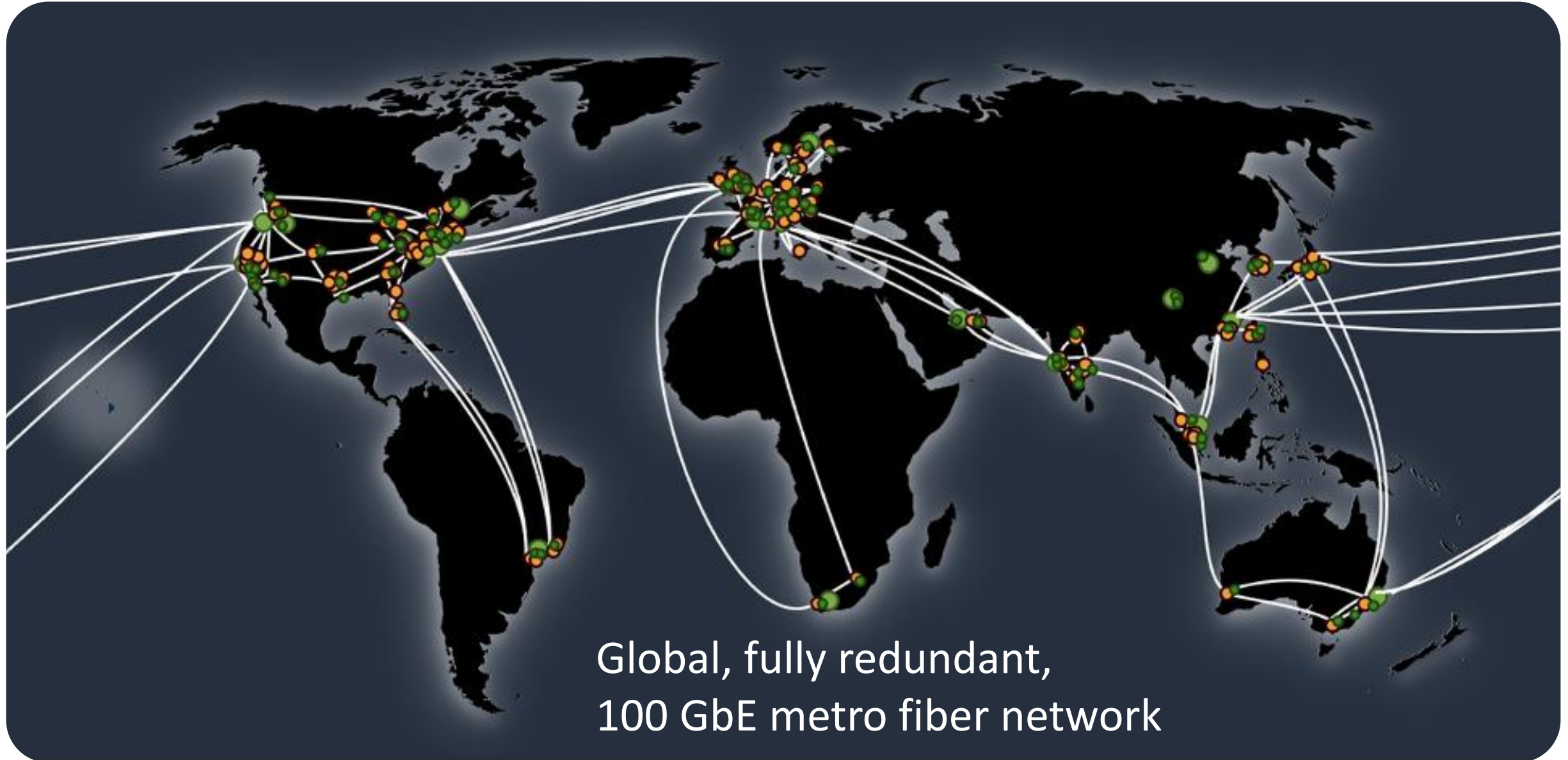
One or More than one Datacenters



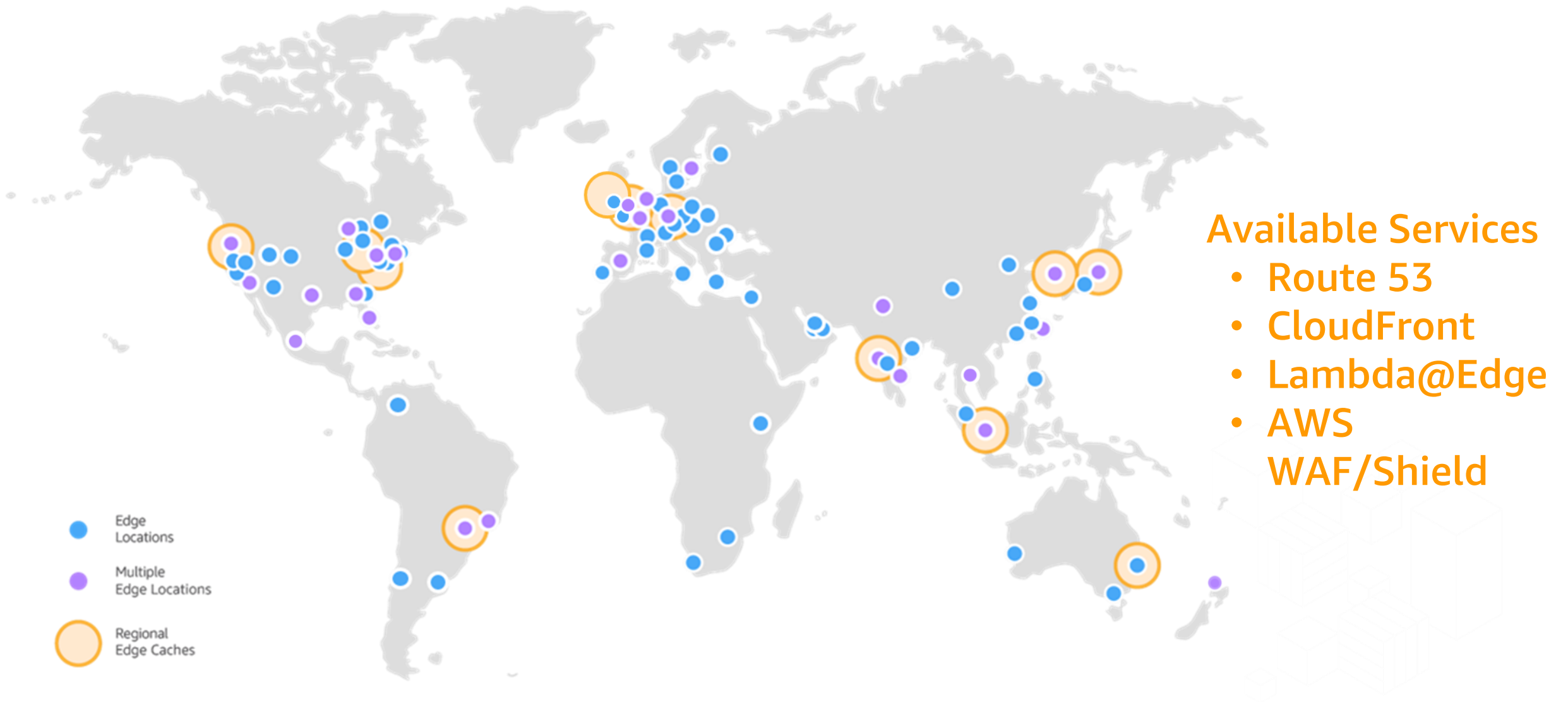
Region – Group of AZs



AWS Global Infrastructure network



400+ Edge Locations / Point of Presence (PoP)



Region Selection





Cloud Computing

What?

- On-demand delivery of IT resources over the Internet with pay-as-you-go pricing.

Why?

- Instead of buying, owning, and maintaining physical data centers and servers, you can access technology services, on an as-needed basis from a cloud provider.

When?

- Common use cases are data backup, disaster recovery, email, virtual desktops, software development and testing, big data analytics, and customer-facing web applications.

Where?

- Cloud providers offer their services over a global infrastructure.

Who?

- Organizations of every type, size, and industry are using the cloud for a wide variety of use cases

How?

- Through virtualization and automation

How much?

- Pay-as-you-go pricing.

What?

- A subsidiary of Amazon which provides a broadly adopted cloud platform offering over 200 services
- In 2006, AWS began offering IT infrastructure services

Why?

- Trade capital expense for variable expense
- Benefit from massive economies of scale
- Stop guessing about capacity
- Increase speed and agility
- Focus on what matters
- Go global in minutes

When?

- You want to quickly and securely build and host your applications without managing your own data center



Amazon Web Services

Where?

- Region – A physical location around the world
- Availability Zone – Group of one or more data center
- Edge Location / Point of Presence
- AWS Global Network

Who?

- Millions of customers—including the fastest-growing startups, largest enterprises, and leading government agencies—are using AWS in 190 countries around the world.

How?

- Select an AWS Region to start building or hosting your applications based on Compliance, Proximity, Cost, and Service Availability criteria.

How much?

- Pay-as-you-go pricing.
- Free tier to explore and try out AWS services.