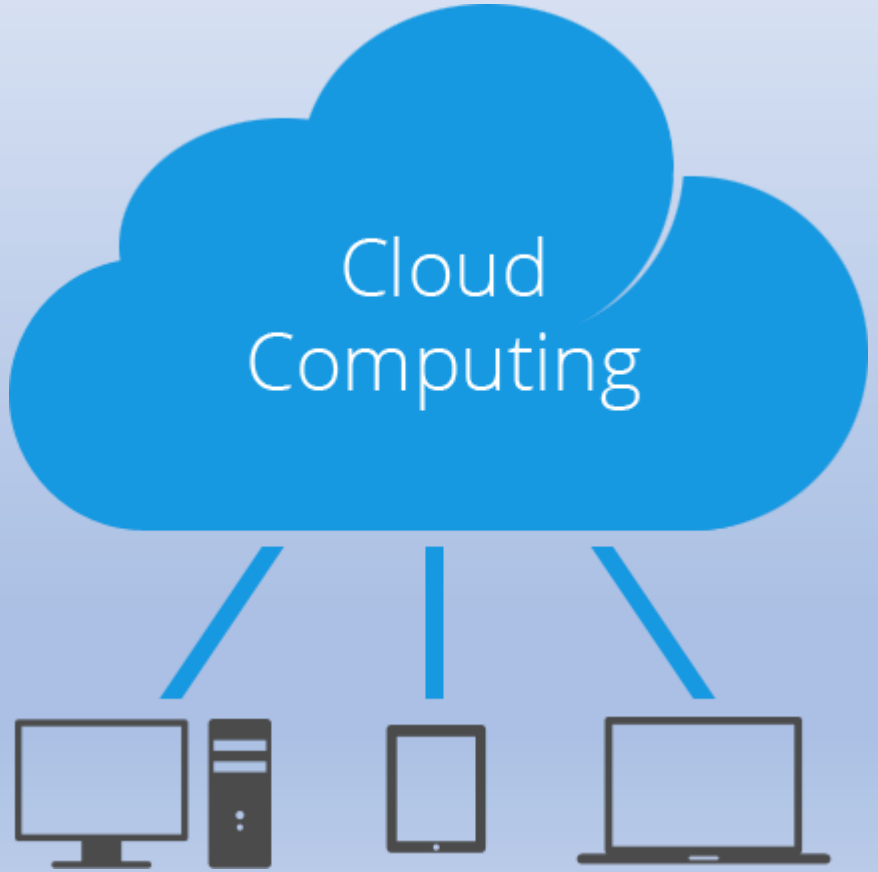
CLOUD COMPUTING WITH AWS

Class 1

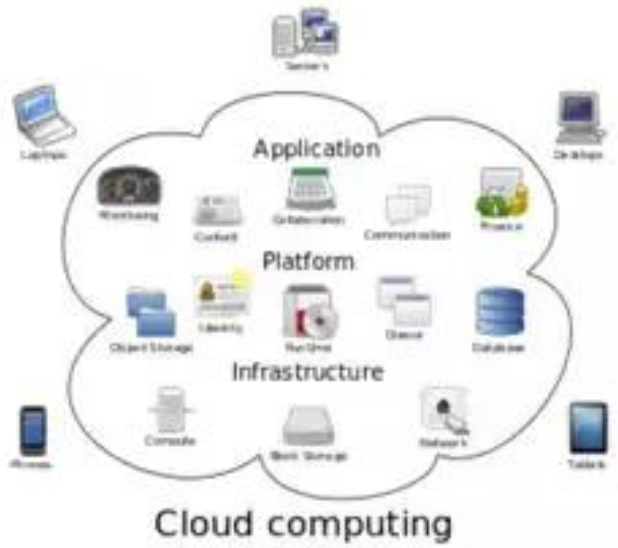


amazon
web services

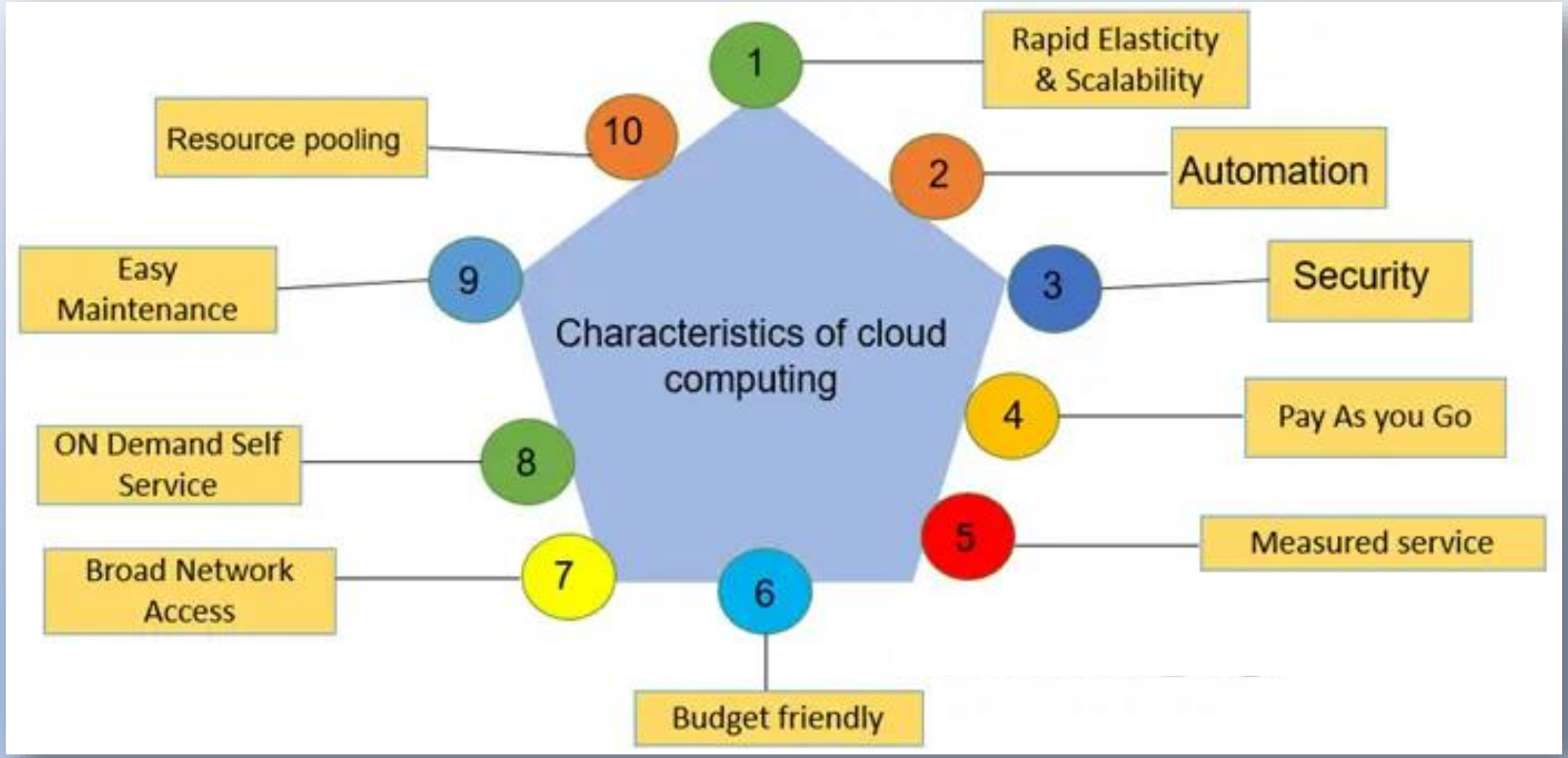
Course Outline

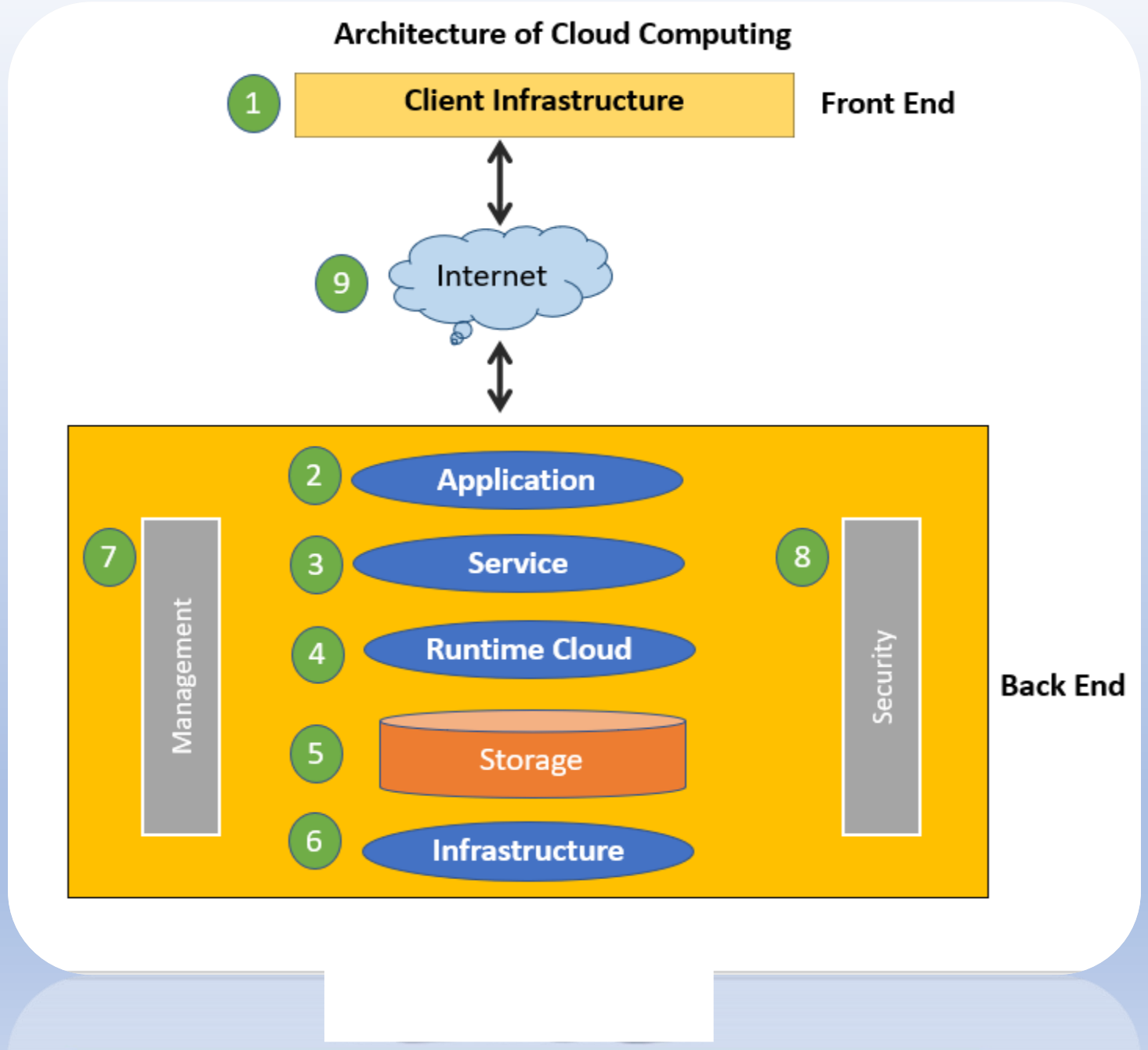
- Introduction to Cloud Computing
- Introduction to AWS
- Identity & Access Management
- Elastic Compute Cloud
- Elastic Block Storage
- Elastic File System
- Elastic Load Balancer
- Auto Scaling Groups
- Simple Storage Service
- Route 53 Service
- Relational Database Service
- Serverless
- Lambda Function
- API Gateway Integration
- Cloudfront
- VPC
- Amazon Migration Service
- Failover & Disaster Recovery
- Amplify
- Mics.
- Capstone Project - compulsory for ALL

What is Cloud Computing?



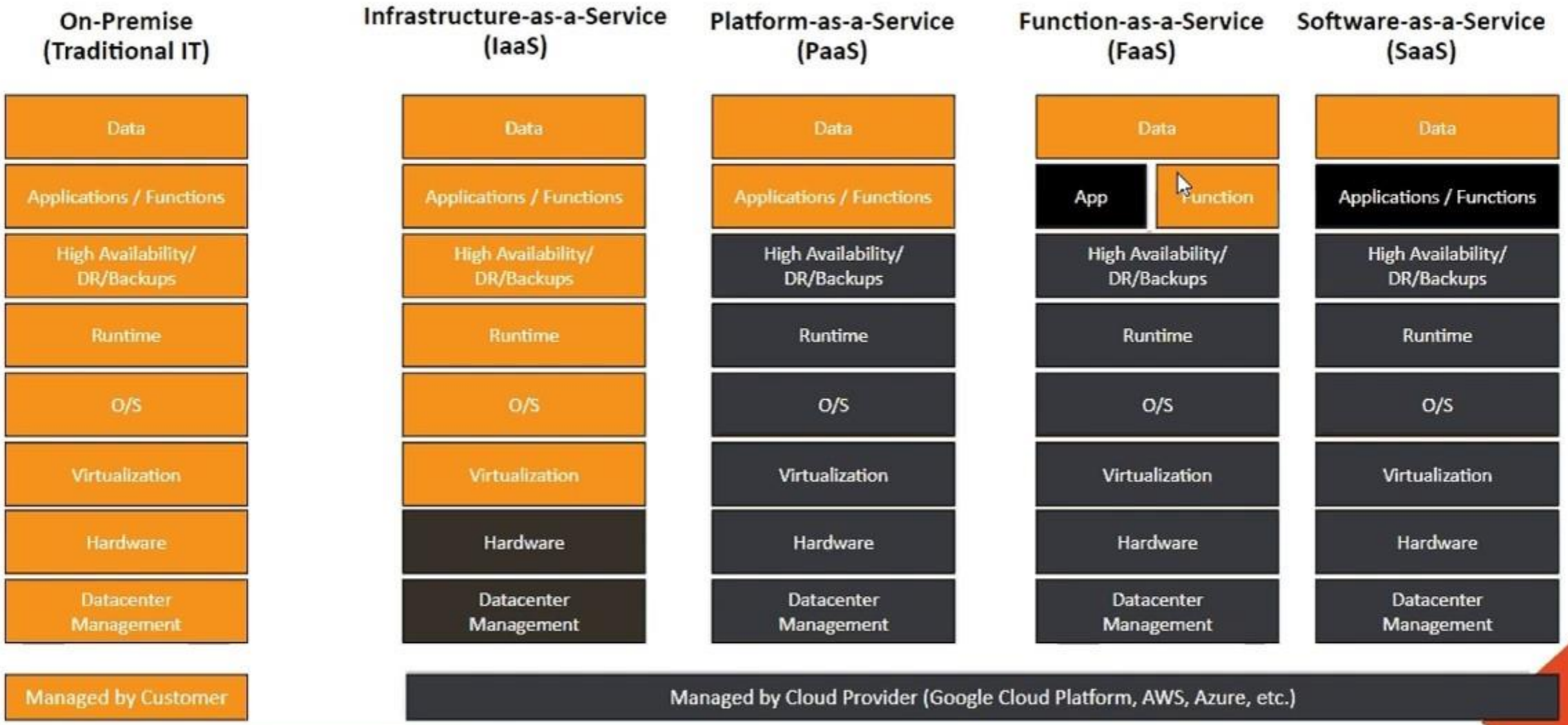
- Cloud computing is the on-demand delivery of compute power, database storage, applications, and other IT resources through a cloud services platform via the internet with pay-as-you-go pricing.

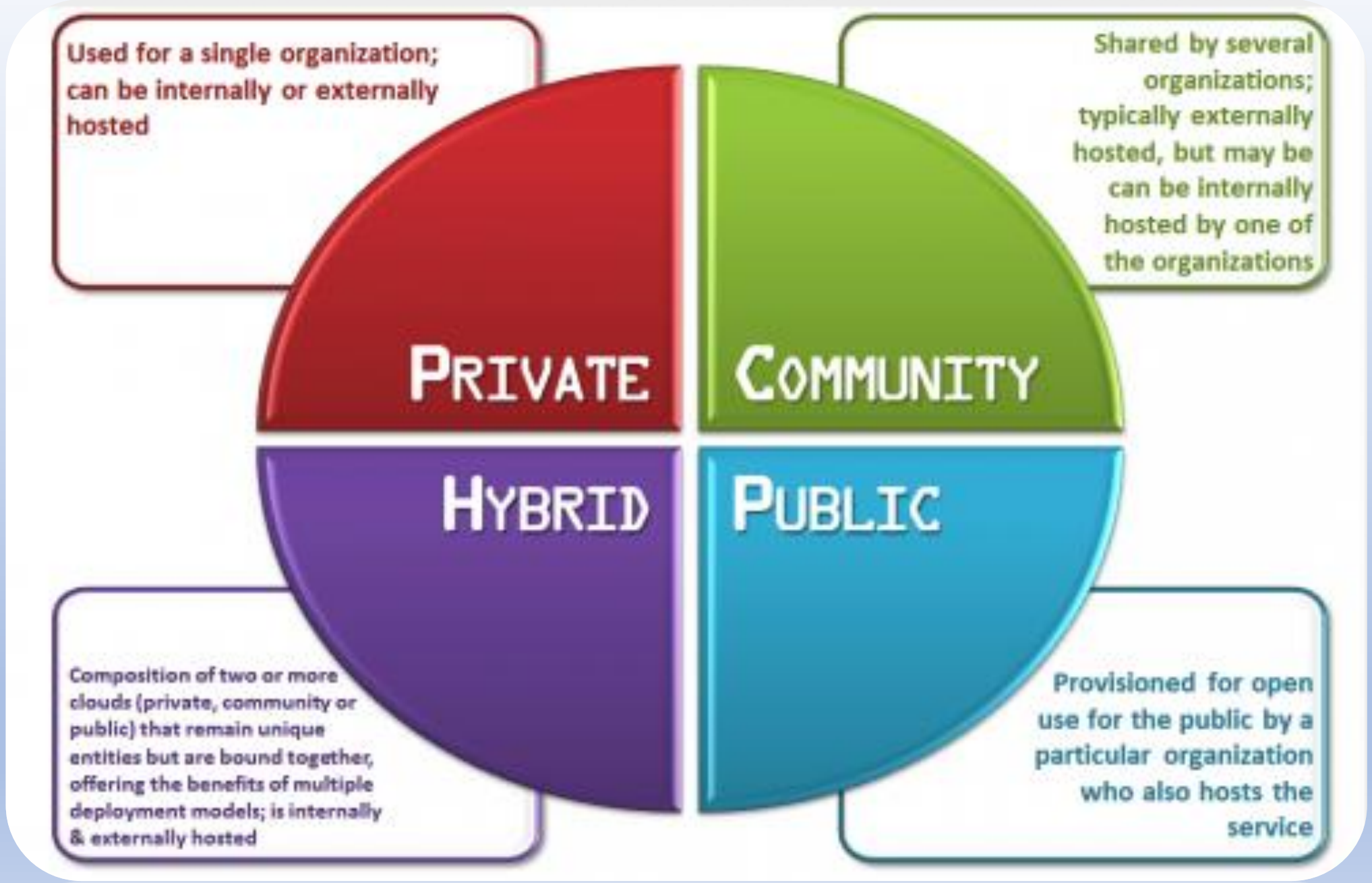

Characteristics of cloud computing
1
Rapid Elasticity & Scalability
2
Automation
3
Security
4
Pay As you Go
5
Measured service
6
Budget friendly
7
Broad Network Access
8
ON Demand Self Service
9
Easy Maintenance
10
Resource pooling


Architecture of Cloud Computing
1
Client Infrastructure
Front End
9
Internet
2
Application
7
Management
3
Service
8
Security
4
Runtime Cloud
5
Storage
6
Infrastructure
Back End

What is IaaS, PaaS, SaaS?

Cloud Service Models



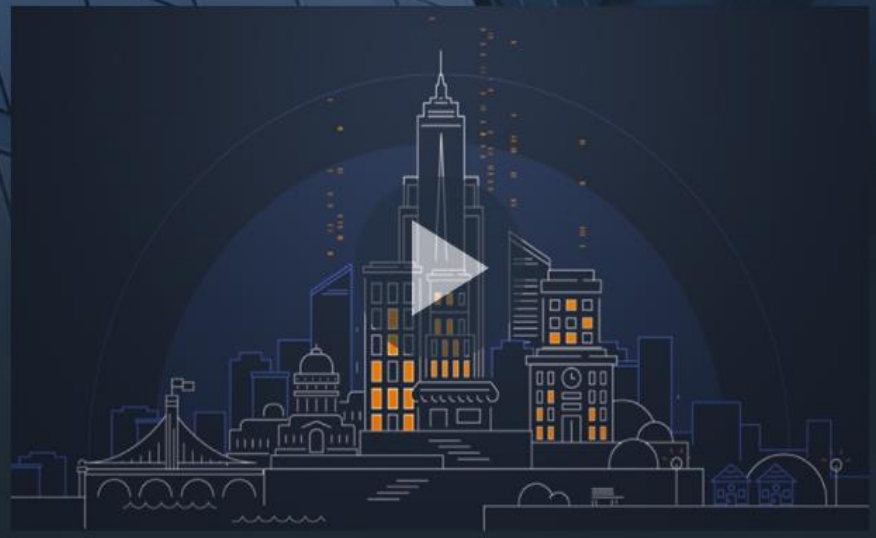

Used for a single organization; can be internally or externally hosted
Shared by several organizations; typically externally hosted, but may be can be internally hosted by one of the organizations
PRIVATE
COMMUNITY
HYBRID
PUBLIC
Composition of two or more clouds (private, community or public) that remain unique entities but are bound together, offering the benefits of multiple deployment models; is internally & externally hosted
Provisioned for open use for the public by a particular organization who also hosts the service

An Introduction to amazon web services (aws)

"AWS uses distributed IT infrastructure to provide different IT resources available on demand"

Cloud computing with AWS

Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform, offering over 200 fully featured services from data centers globally. Millions of customers—including the fastest-growing startups, largest enterprises, and leading government agencies—are using AWS to lower costs, become more agile, and innovate faster.

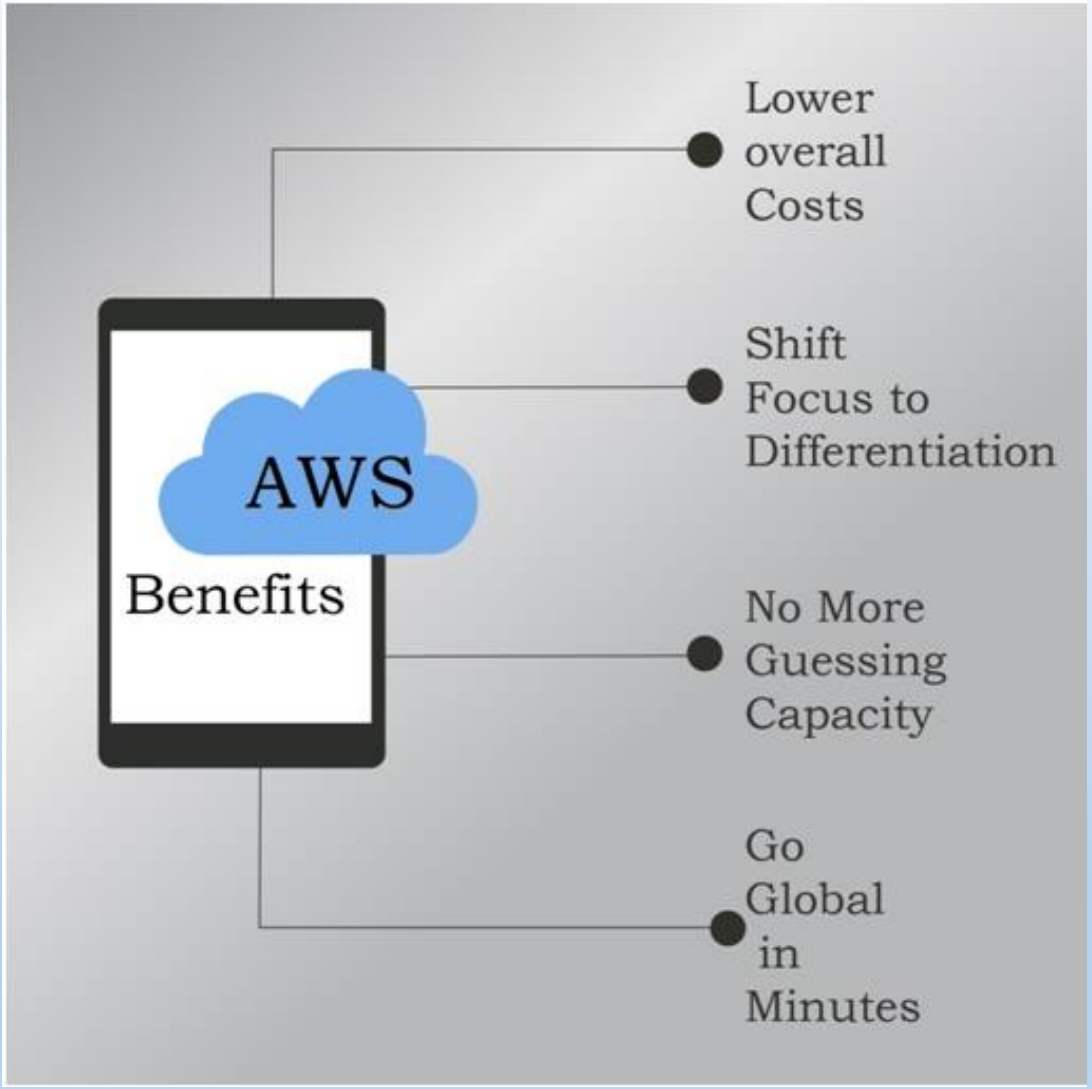


Sign In to the Console

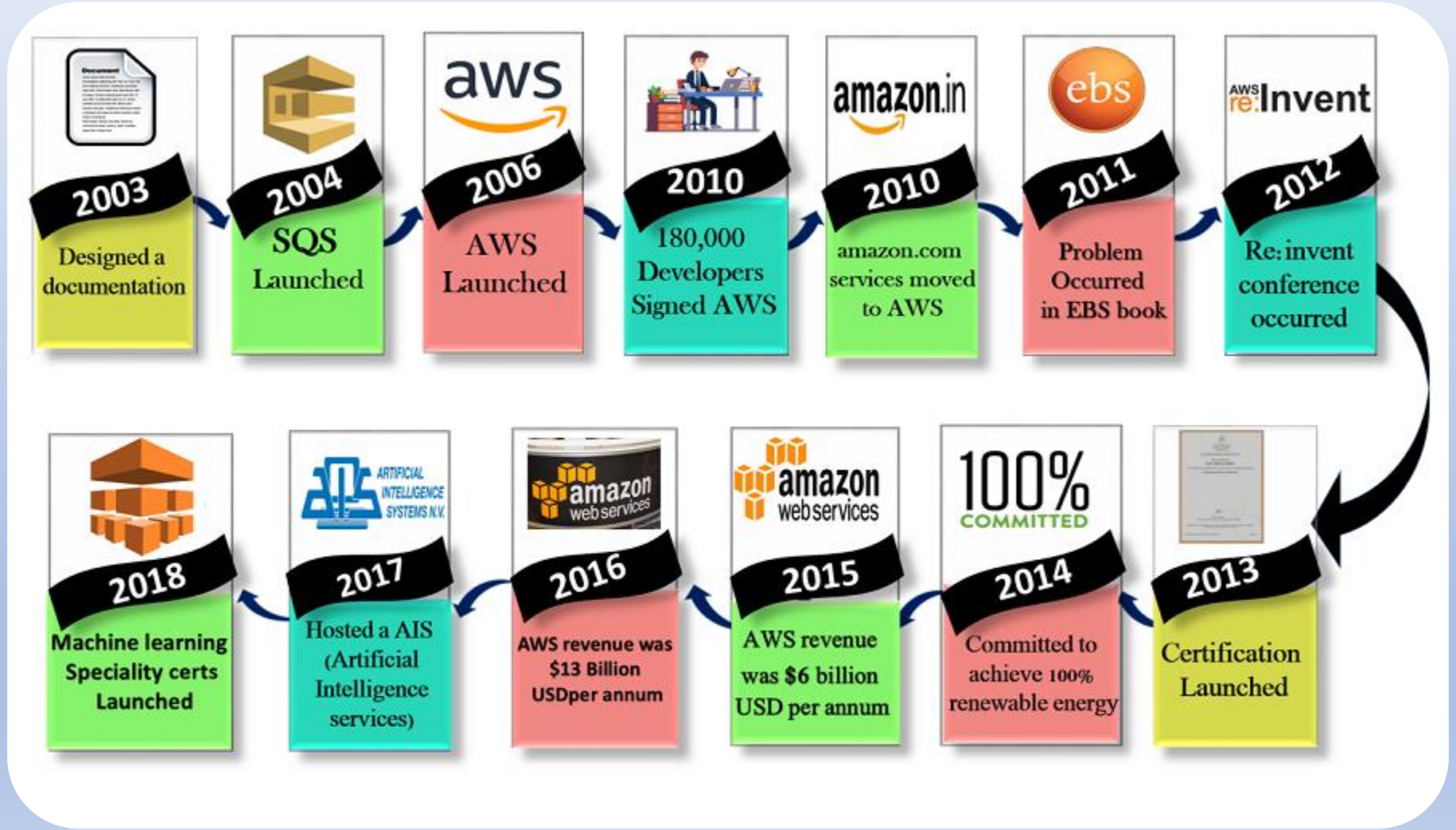
Questions about getting started with AWS? **Connect with an expert »**

Learn why AWS is the leading cloud computing platform:

MAIN ADVANTAGES OF AWS

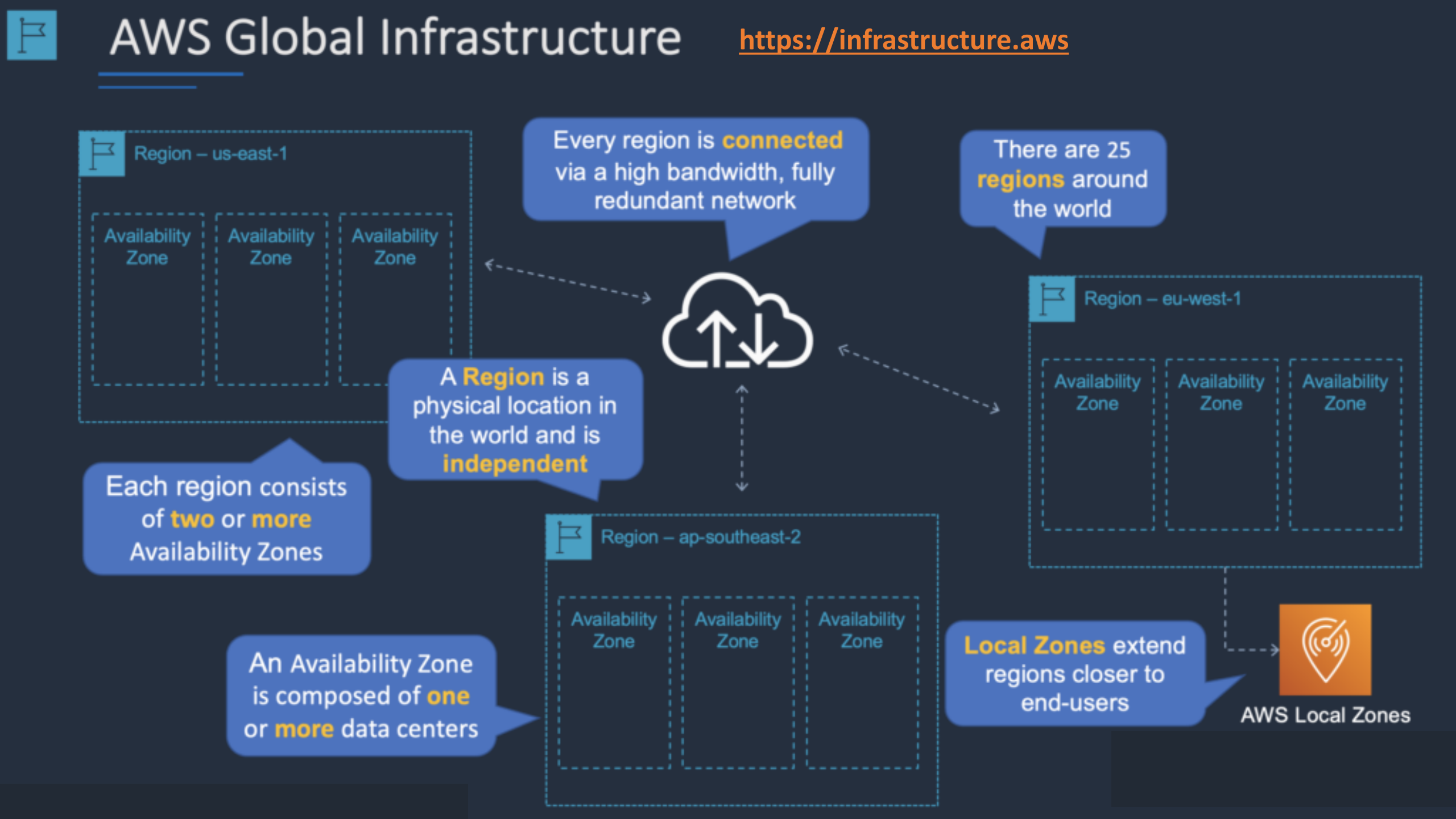


AWS Cloud History



AWS Global Infrastructure

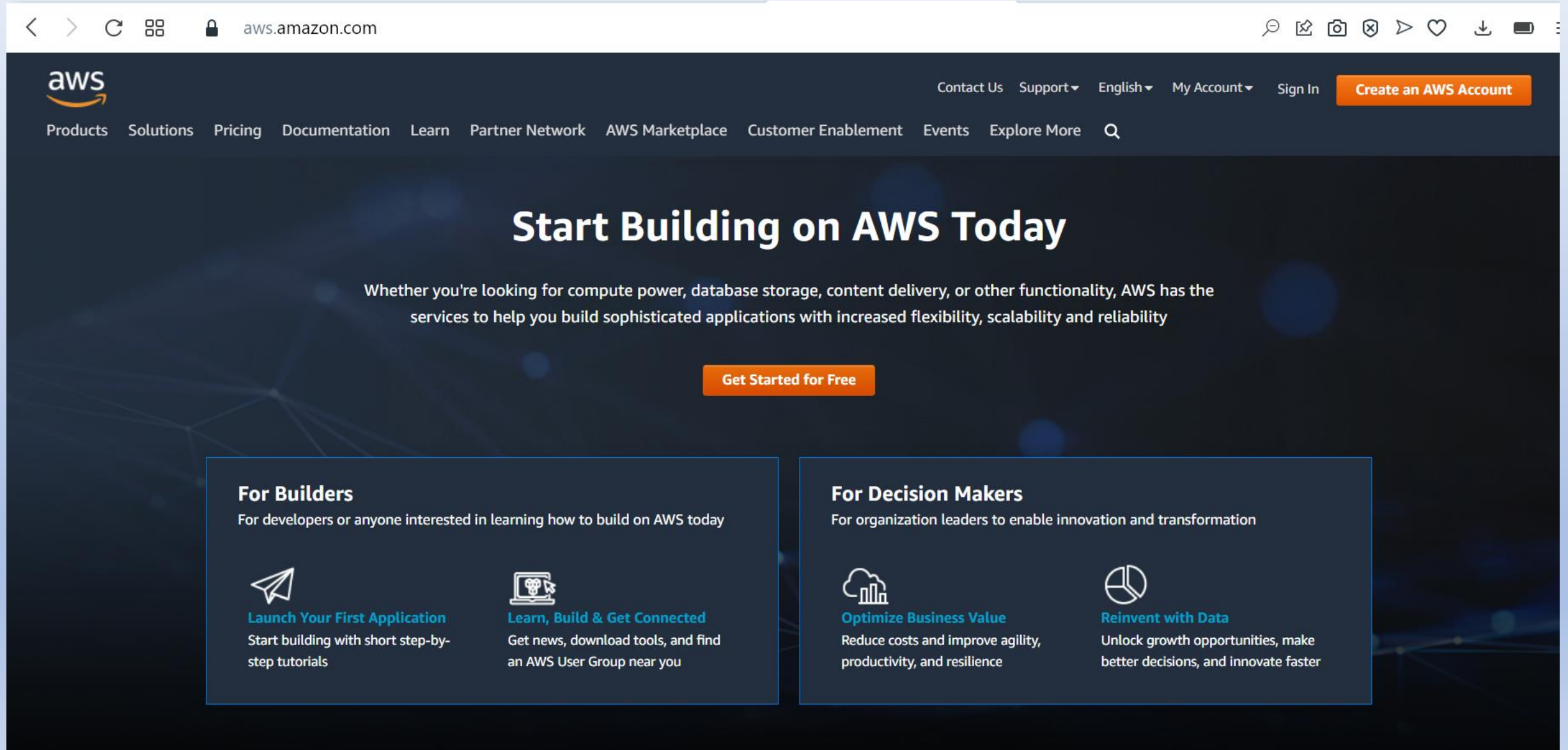
https://infrastructure.aws



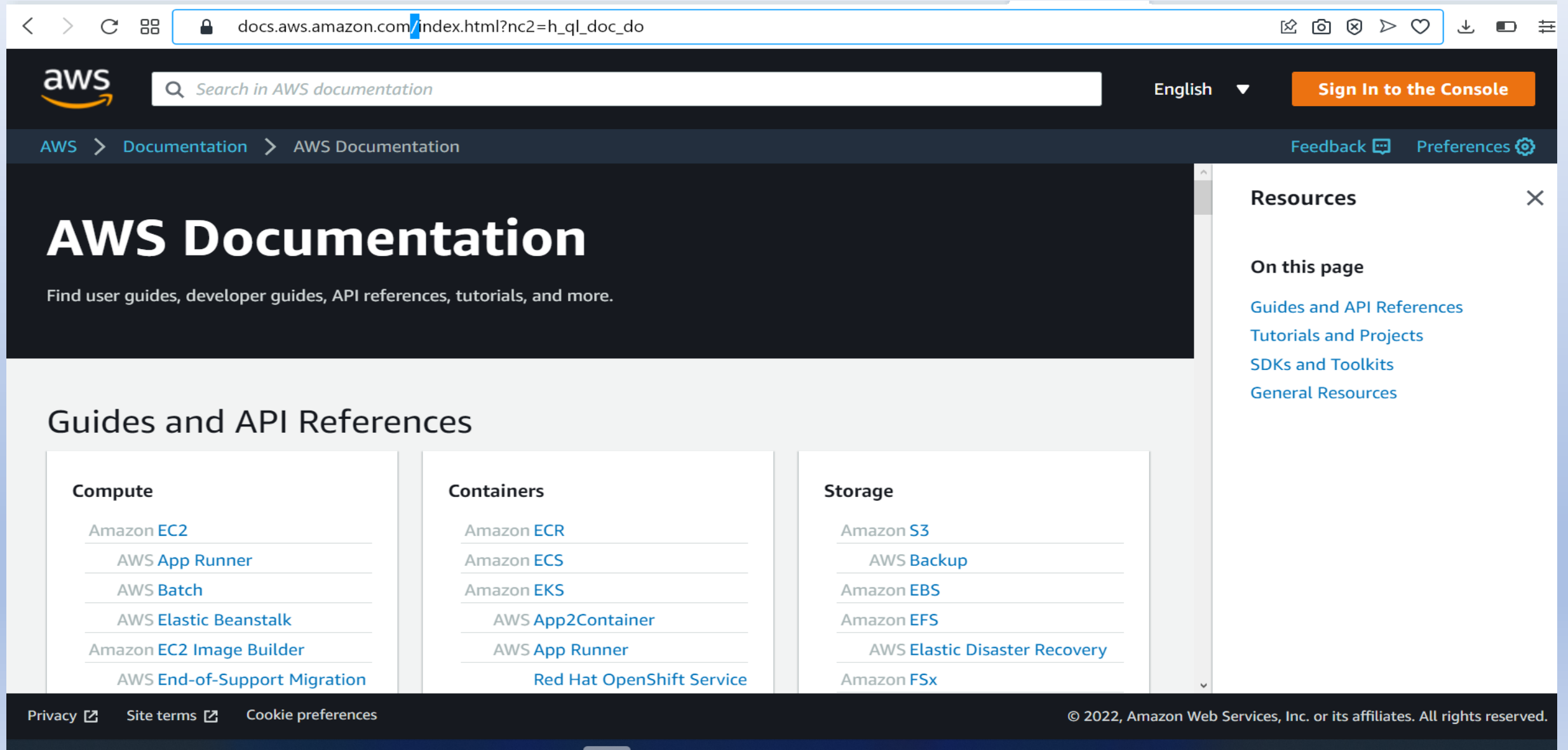
Remember:

26 Launched Regions Each with multiple Availability Zones (AZ's)	**84 Availability Zones**	**17 Local Zones** **24 Wavelength Zones** For ultralow latency applications	**8 Announced Regions** **30 Announced Local Zones**
2x More Regions With multiple AZ's than the next largest cloud provider	**245 Countries and Territories Served**	**108 Direct Connect Locations**	**310+ Points of Presence** 300+ Edge Locations and 13 Regional Edge Caches

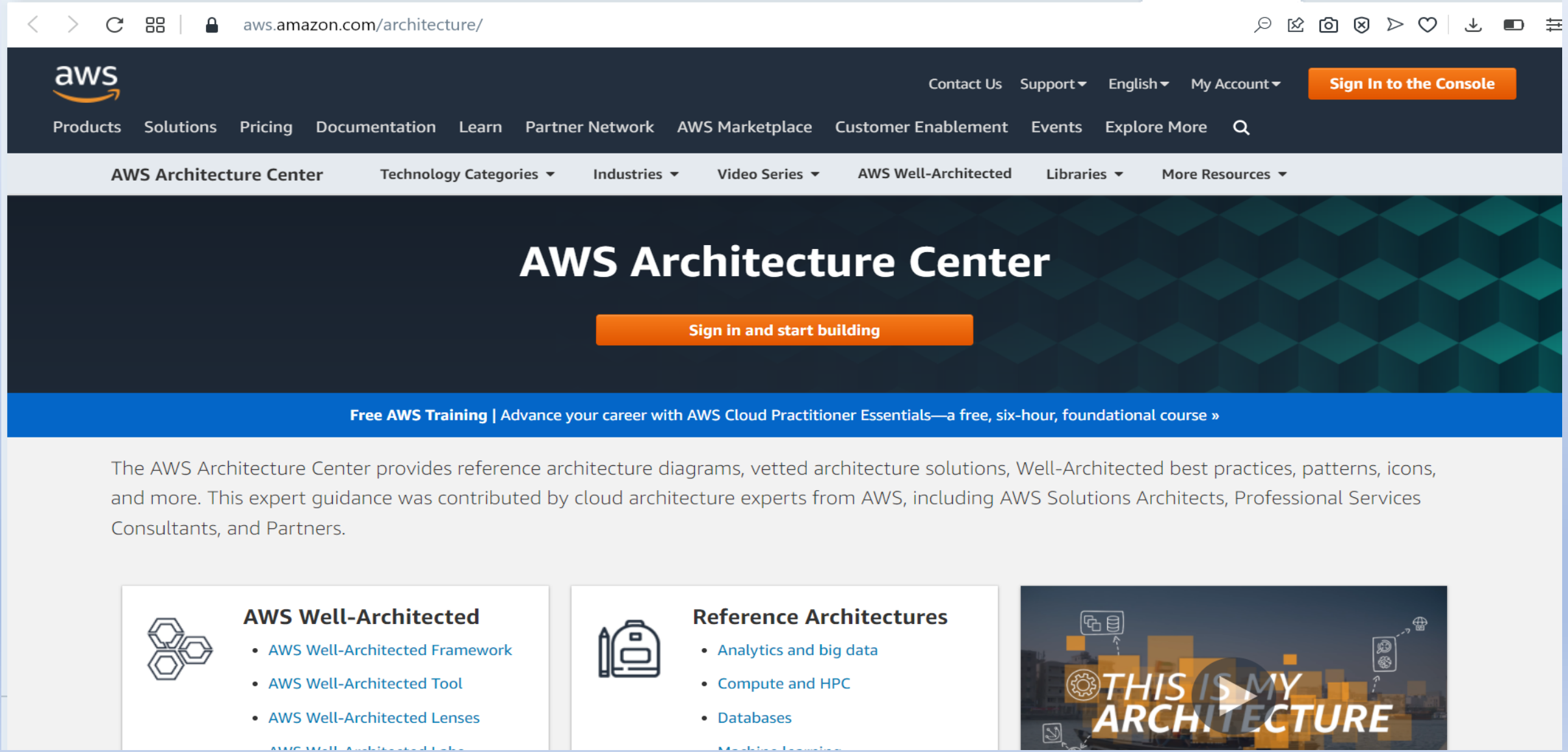
Lets Create an Account for FREE!



Lets Browse- AWS Documentation



Lets Visit AWS Architecture Center



To-Do List For Class 1

- Know About The Certification, Visit- https://aws.amazon.com/certification/certified-solutions-architect-associate/
- Know What-is AWS, Visit- https://aws.amazon.com/what-is-aws/
- Create AWS Account For Free, Visit- https://aws.amazon.com/free
- Browse AWS Documentation, Visit- https://docs.aws.amazon.com/index.html
- Know AWS Architecture Center, Visit- https://aws.amazon.com/architecture

Lets Be Ready For The Action!