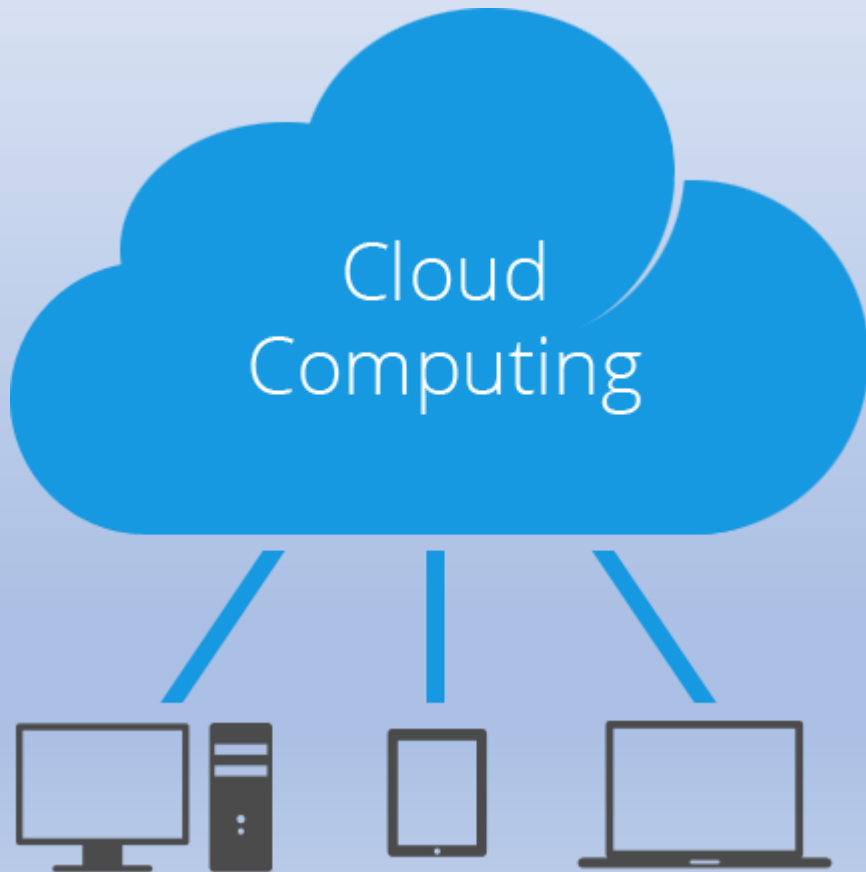


# CLOUD COMPUTING WITH AWS

## Class 1



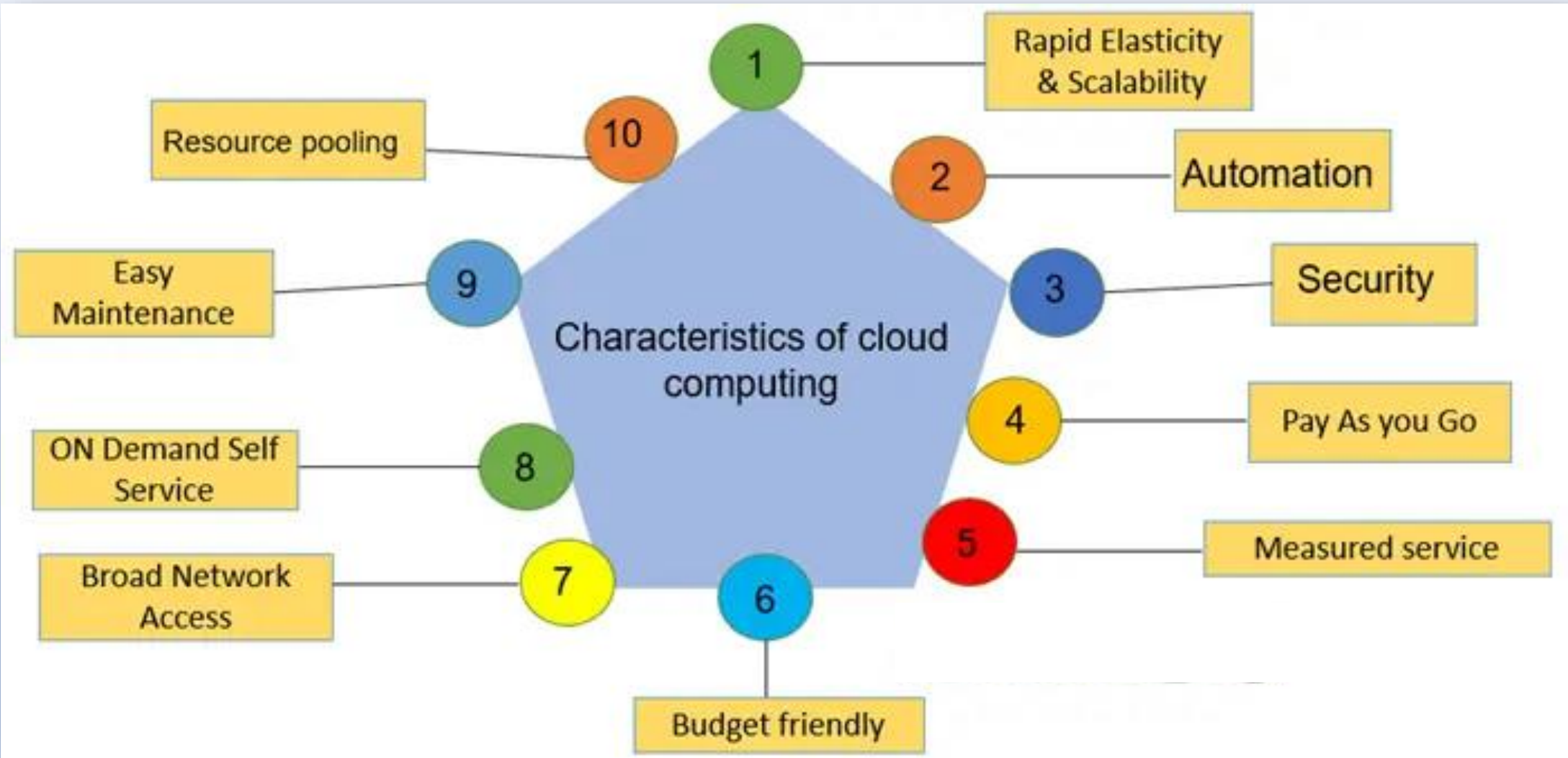
# Course Outline

- 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

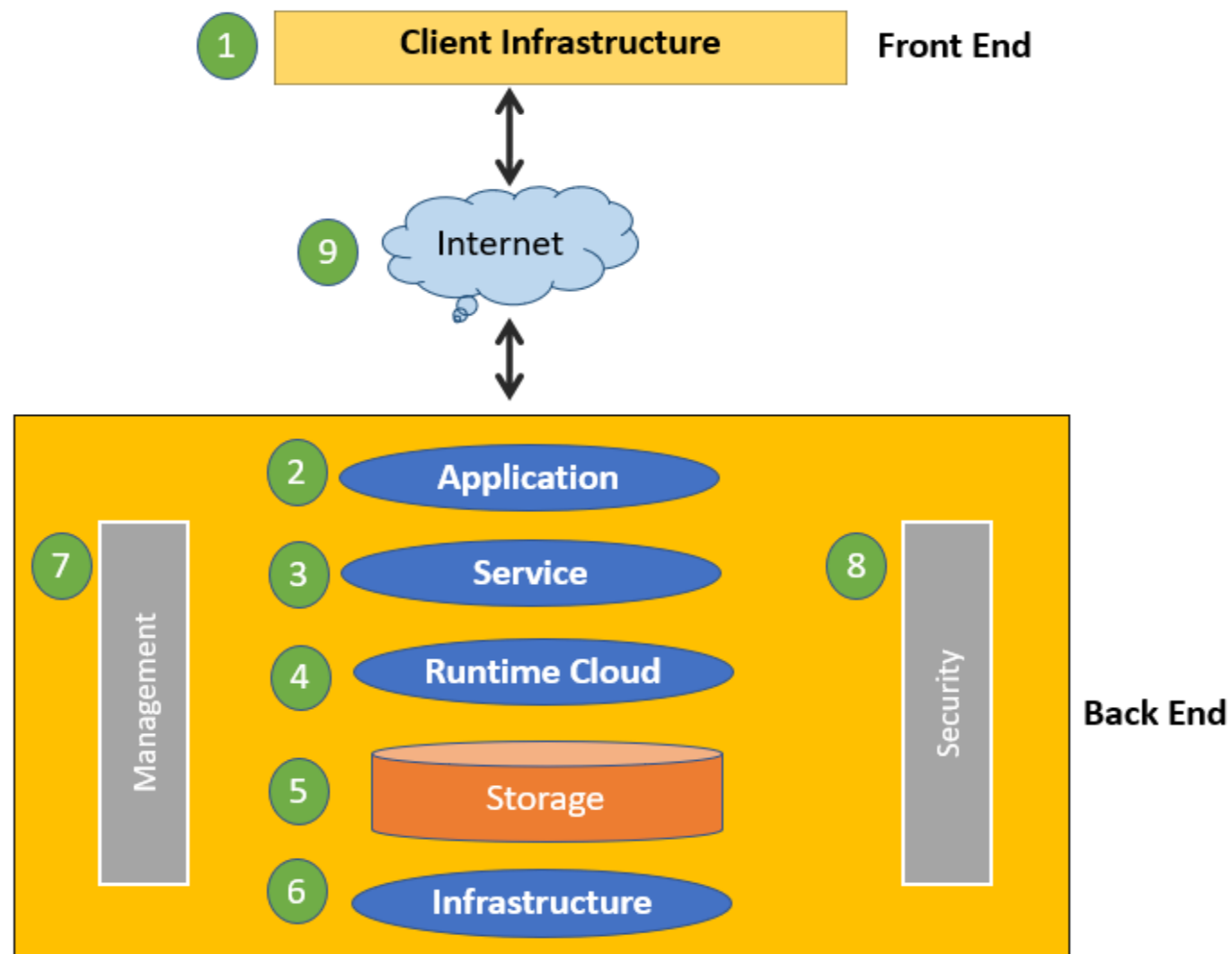
# What is Cloud Computing?



- 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.

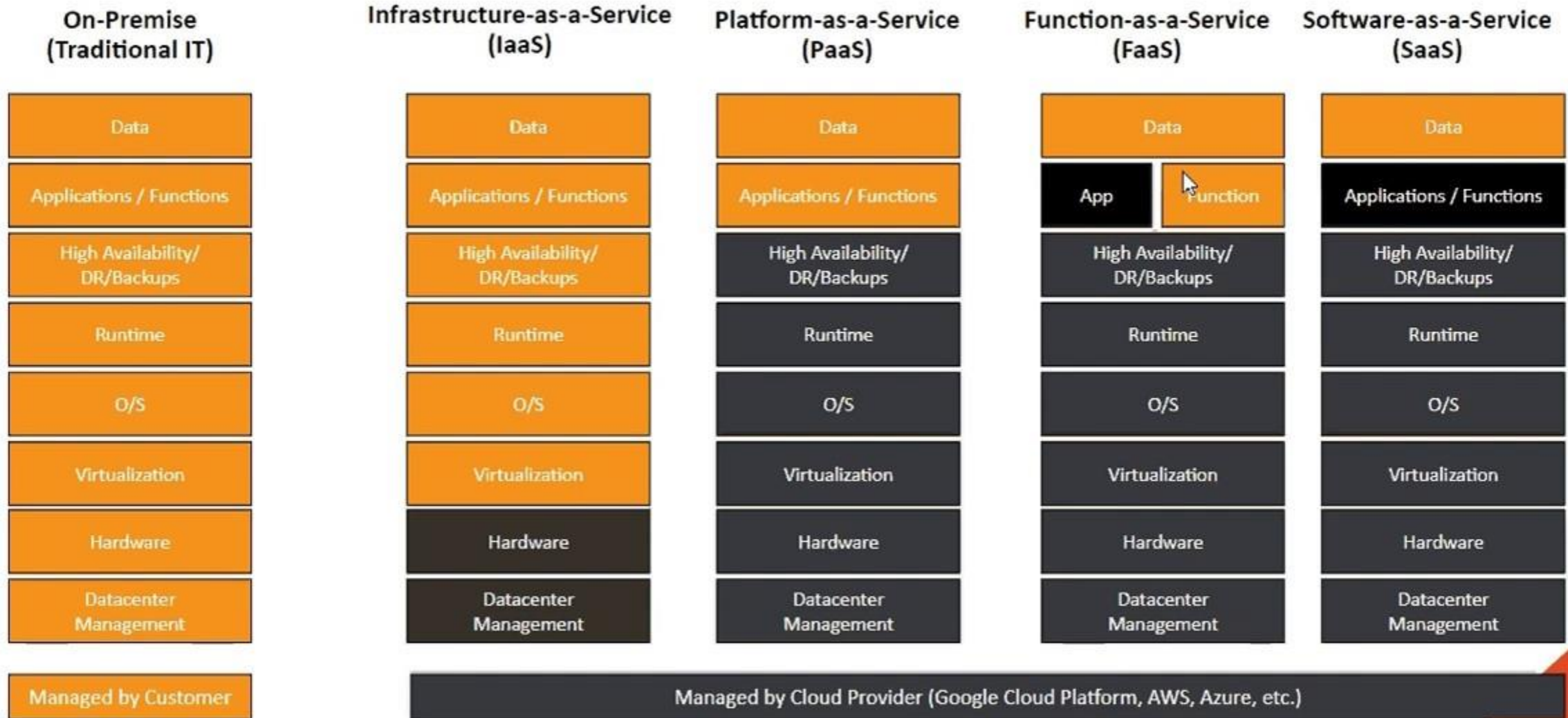


## Architecture of Cloud Computing



# What is IaaS, PaaS, SaaS?

# Cloud Service Models





Used for a single organization;  
can be internally or externally  
hosted

**PRIVATE**

Shared by several  
organizations;  
typically externally  
hosted, but may be  
can be internally  
hosted by one of  
the organizations

**COMMUNITY**


**HYBRID**

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

**PUBLIC**

Provisioned for open  
use for the public by a  
particular organization  
who also hosts the  
service

# An Introduction to **amazon** web services **(aws)**

The background of the slide features a network of interconnected nodes and lines in various colors (orange, grey, teal). On the left side, there is a stylized AWS logo composed of several orange 3D cubes arranged in a grid-like pattern.

**“AWS uses distributed IT infrastructure to provide different IT resources available on demand”**



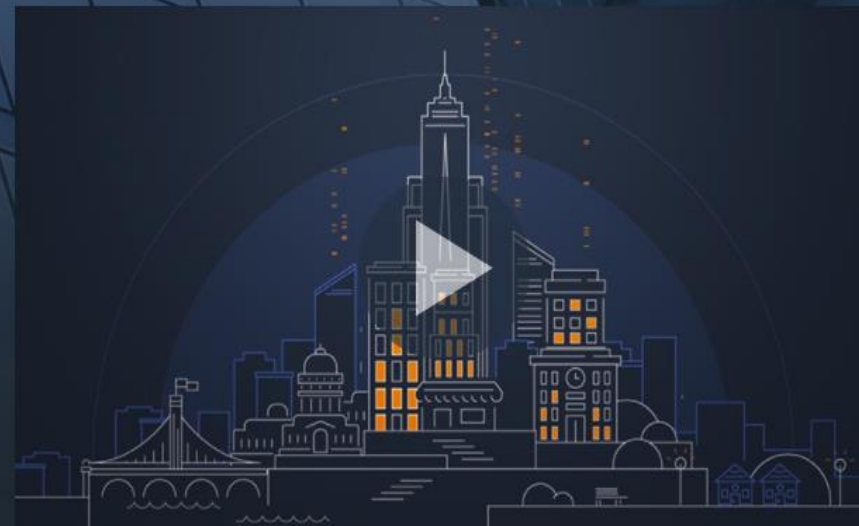


# Cloud computing with AWS

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.

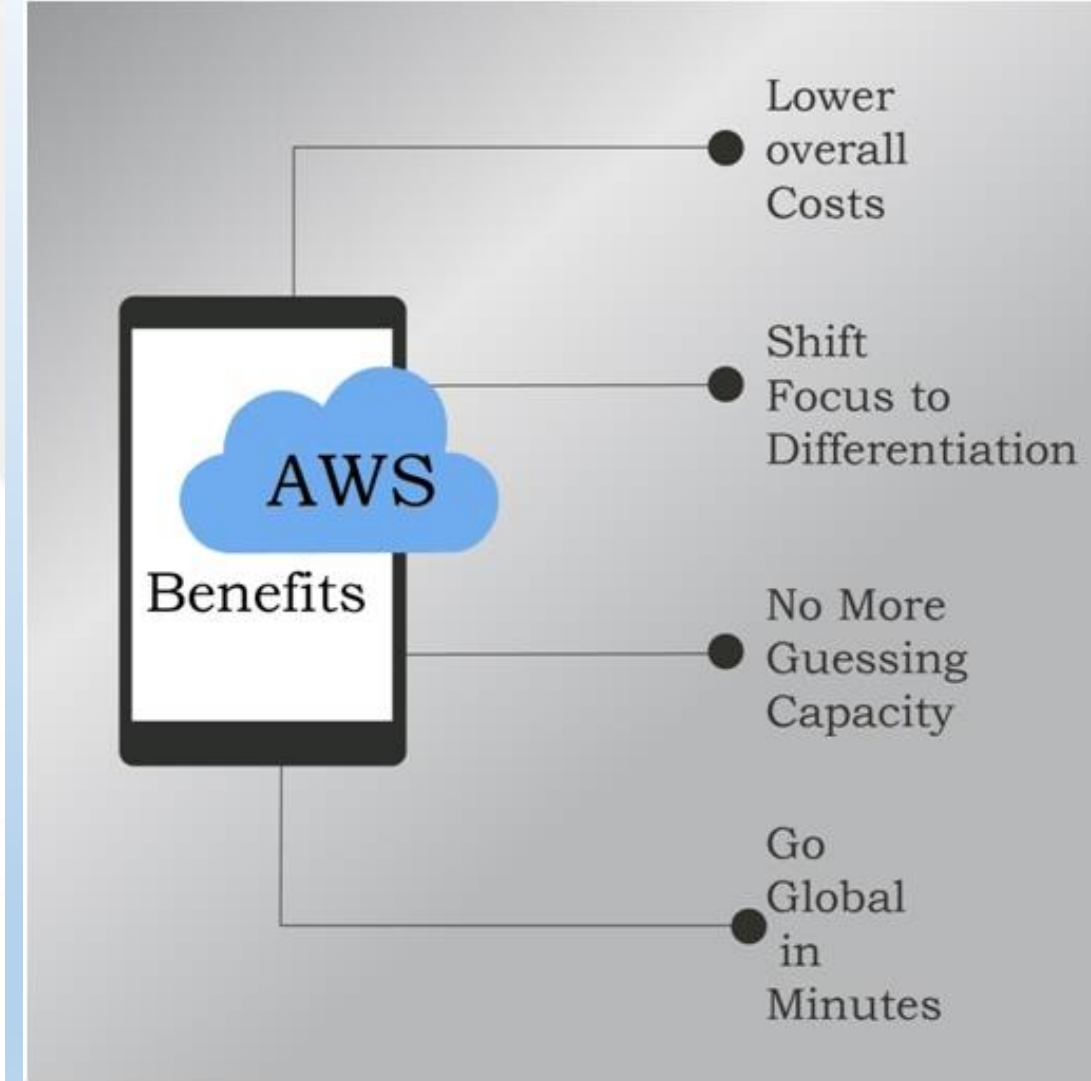
[Sign In to the Console](#)

Questions about getting started with AWS? [Connect with an expert](#) »

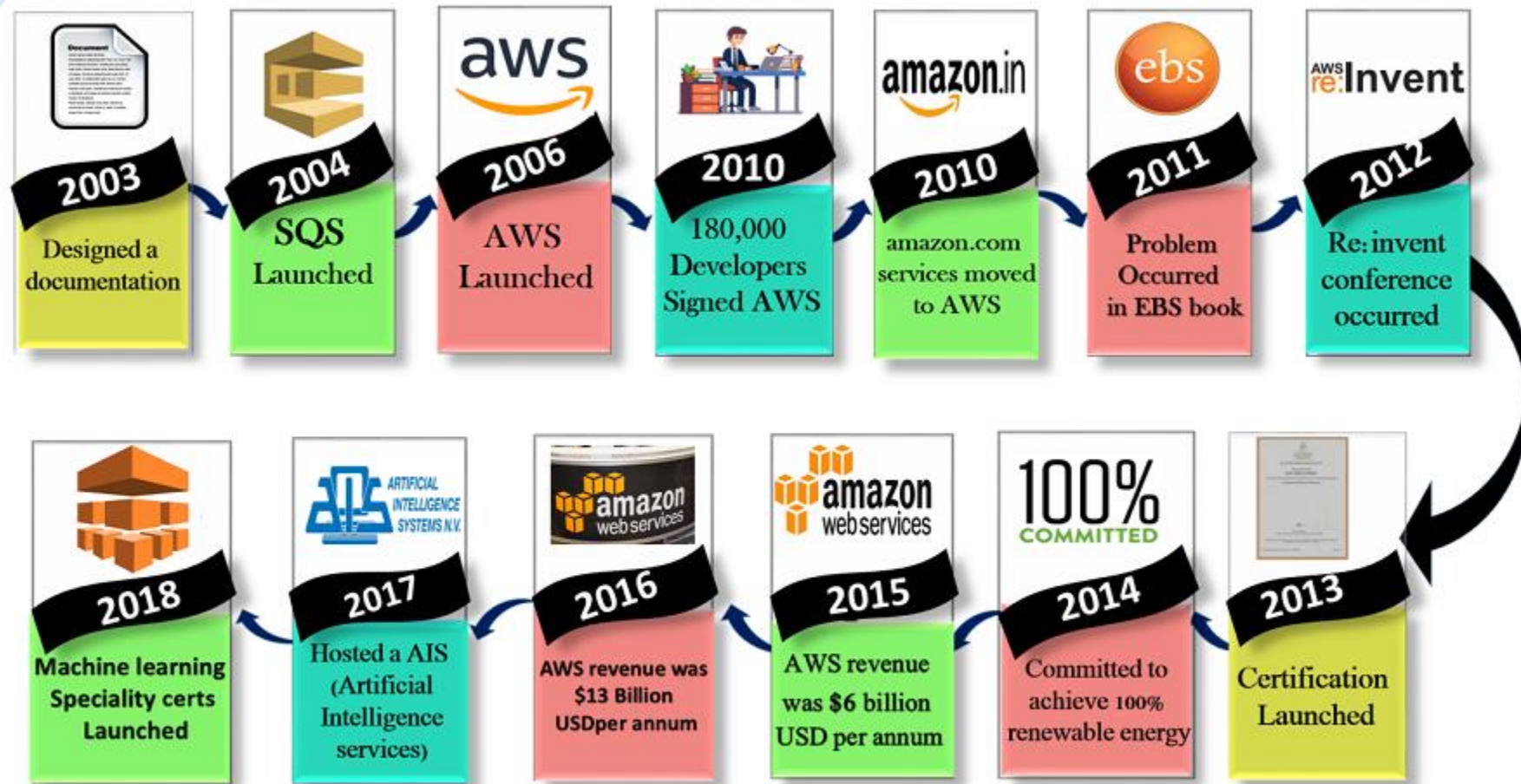


Learn why AWS is the leading cloud computing platform:

# MAIN ADVANTAGES OF AWS



# AWS Cloud History

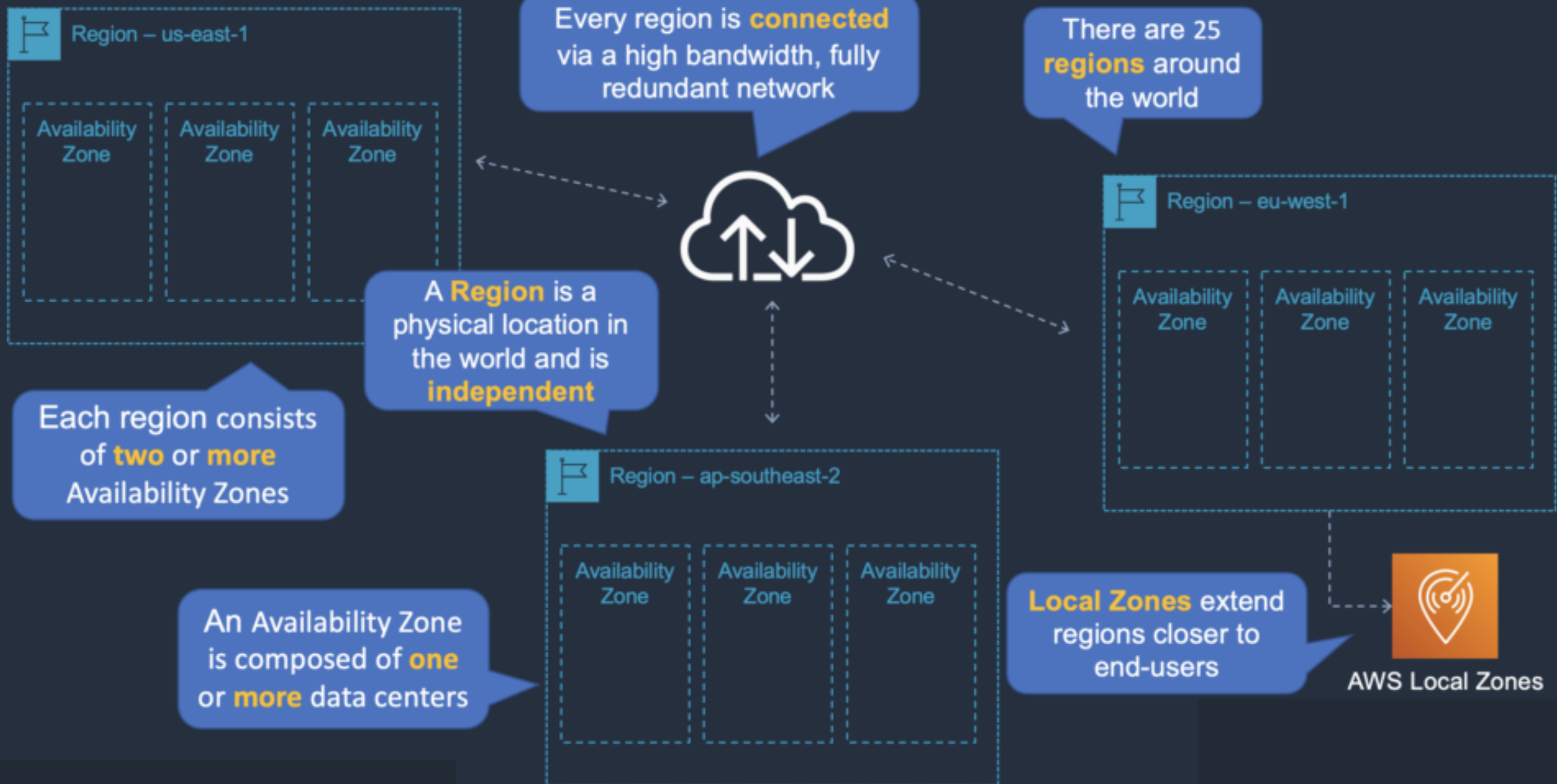






# AWS Global Infrastructure

<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




● Regions ● Coming Soon







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For developers or anyone interested in learning how to build on AWS today




**Launch Your First Application**  
Start building with short step-by-step tutorials




**Learn, Build & Get Connected**  
Get news, download tools, and find an AWS User Group near you

### For Decision Makers

For organization leaders to enable innovation and transformation



**Optimize Business Value**  
Reduce costs and improve agility, productivity, and resilience



**Reinvent with Data**  
Unlock growth opportunities, make better decisions, and innovate faster

# Lets Browse- AWS Documentation

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## Guides and API References

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[AWS Batch](#)

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[AWS End-of-Support Migration](#)

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Storage

[Amazon S3](#)

[AWS Backup](#)

[Amazon EBS](#)

[Amazon EFS](#)

[AWS Elastic Disaster Recovery](#)

[Amazon FSx](#)

## Resources



### On this page

[Guides and API References](#)

[Tutorials and Projects](#)

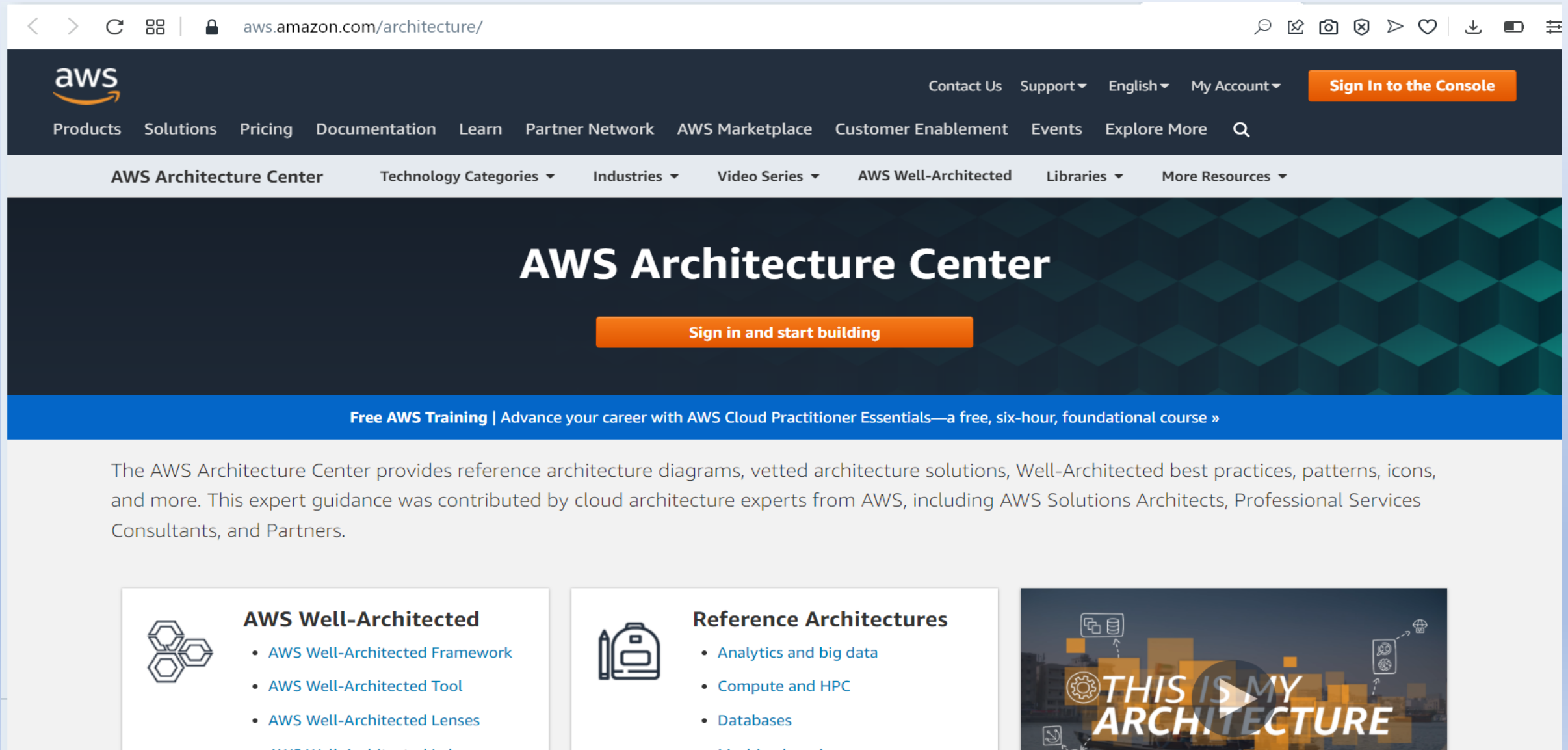
[SDKs and Toolkits](#)

[General Resources](#)

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# 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!**