aws certified
Cloud Practitioner
Getting Started with AWS

2. The NIST Definition of Cloud Computing

Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction. This cloud model is composed of five essential characteristics, three service models, and four deployment models.

Cloud Deployment Models

1. Private Cloud

   Exclusive for single organization

2. Community Cloud

   Exclusively shared by limited number of organizations

3. Public Cloud

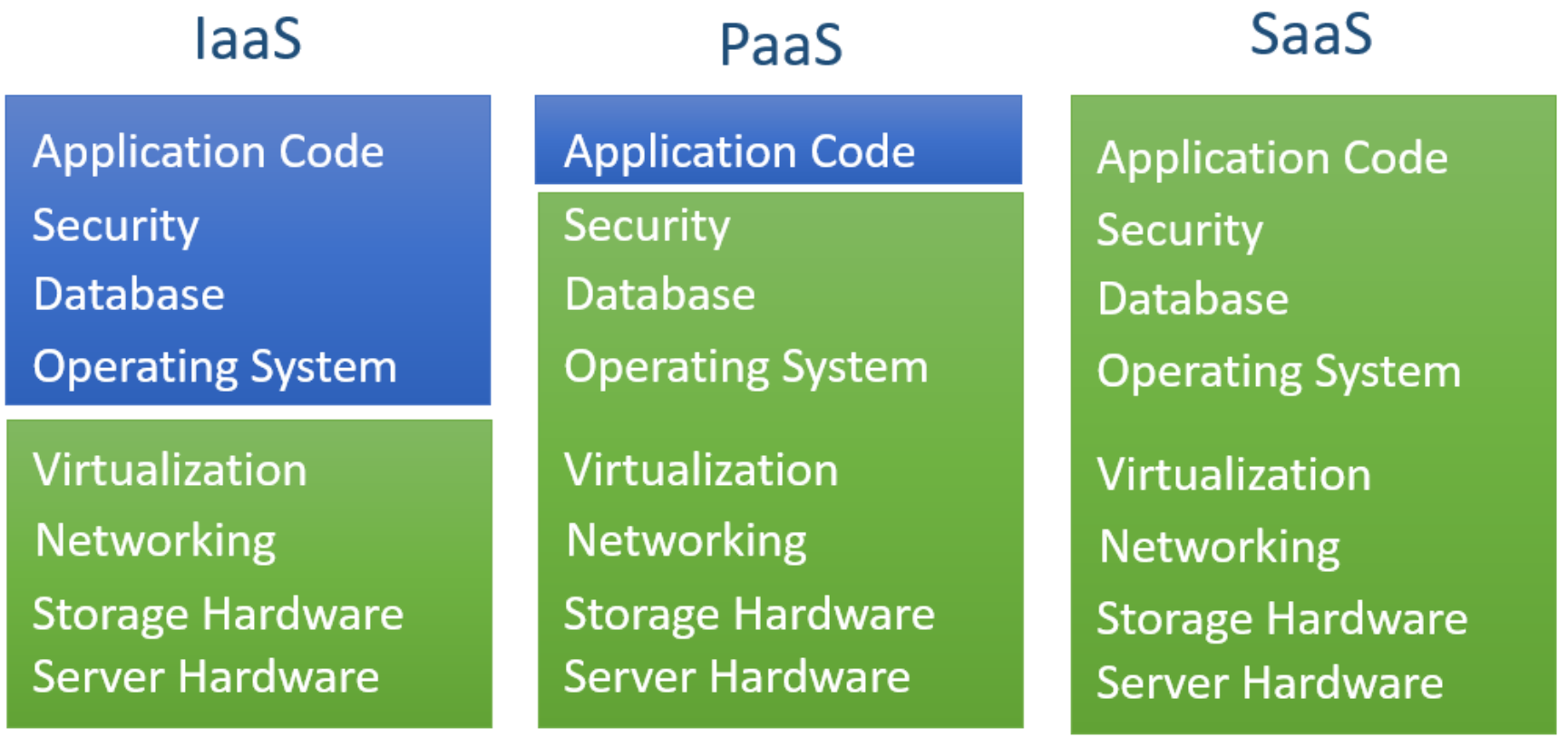
   Available to all for agreed terms and conditions

4. Hybrid Cloud

   Composition of two distinct independent cloud infrastructures

Cloud Service Models

1. IaaS - Infrastructure as a Service
2. PaaS - Platform as a Service
3. SaaS - Software as a Service

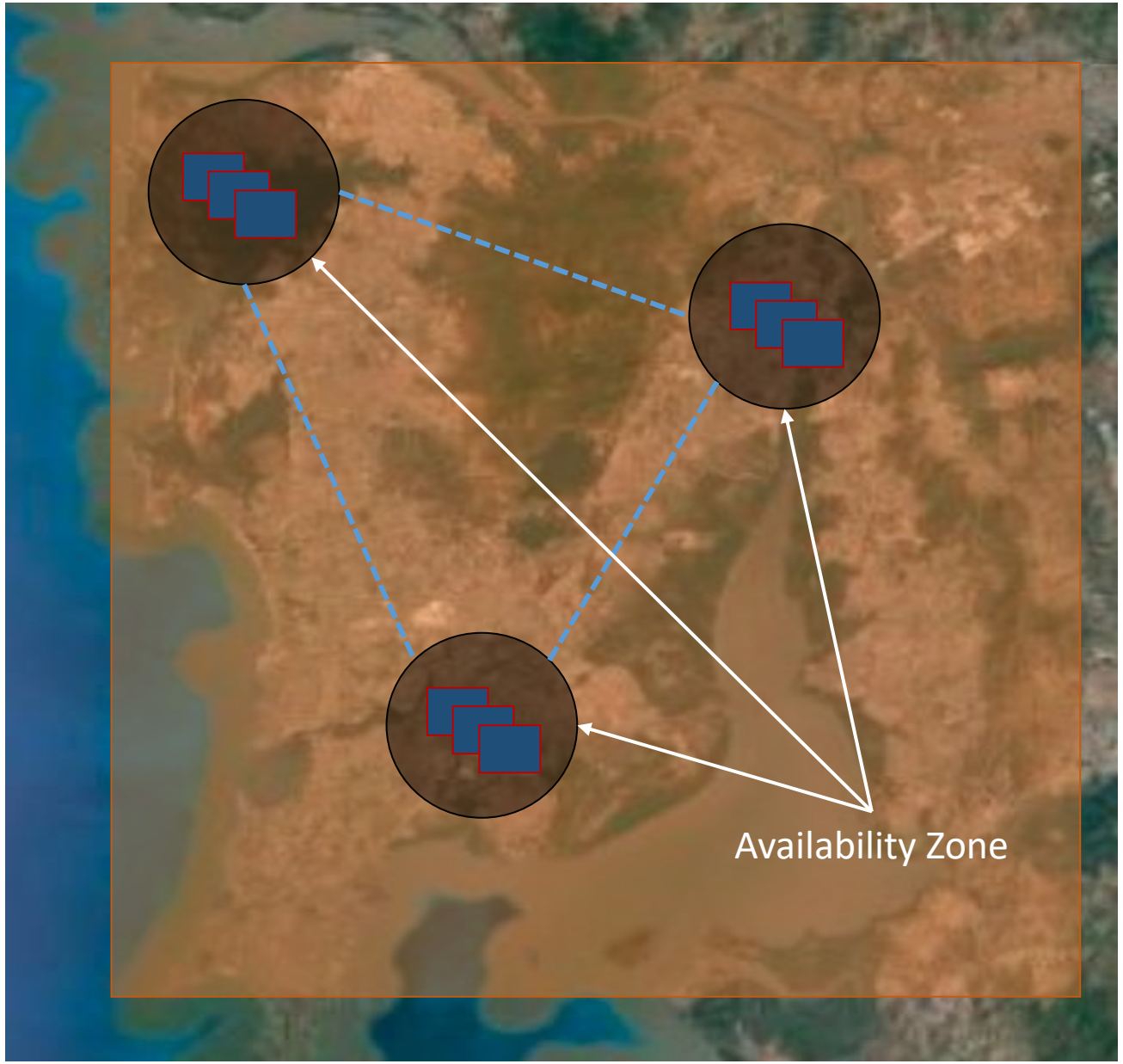


Essential characteristics of Cloud

1. On-demand self-service
2. Broad network access
3. Resource pooling
4. Rapid elasticity
5. Measured service

AWS Global Infrastructure

1. Region
2. Availability Zone



Reference for more details:-

https://aws.amazon.com/about-aws/global-infrastructure/regions_az/

Reference for more details:- https://aws.amazon.com/about-aws/global-infrastructure/localzones/

Local Zone

Reference for more details:- https://aws.amazon.com/wavelength/

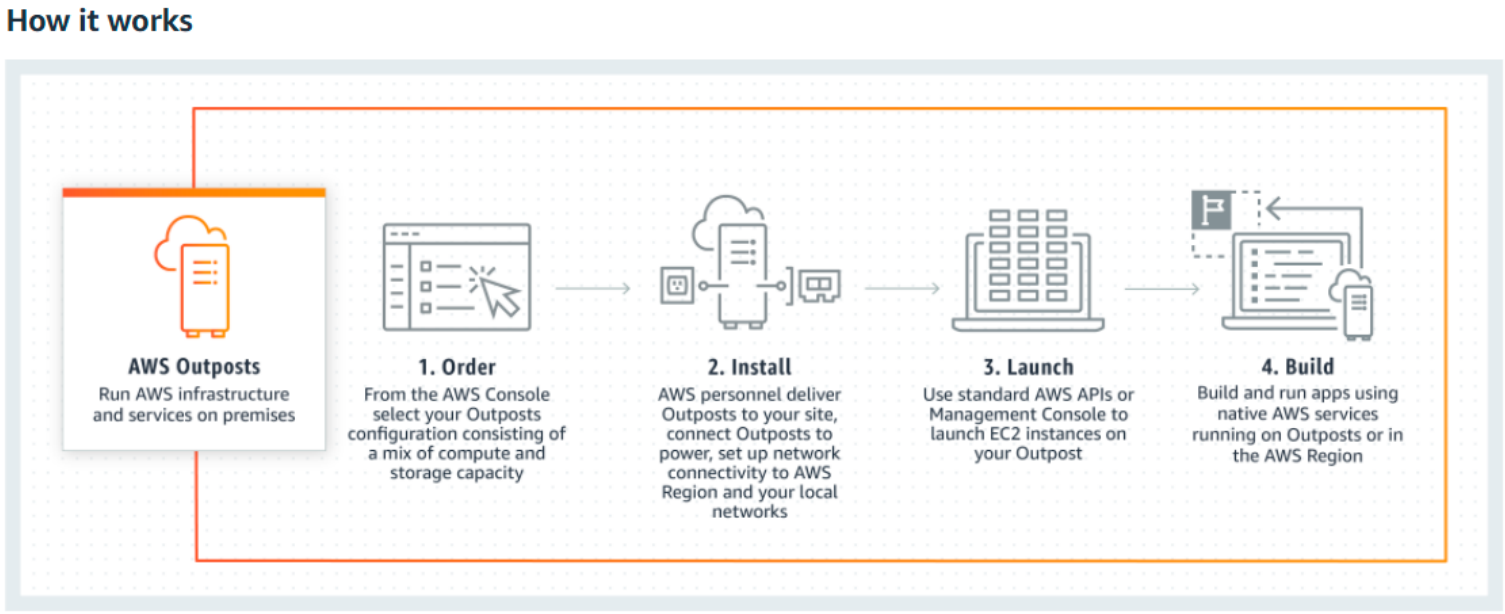
Wavelength

Wavelength Location Examples

LOCATION	COMMUNICATIONS SERVICE PROVIDER	AWS REGION	WAVELENGTH ZONE ID
Boston, US	Verizon	US East (N. Virginia)	us-east-1-wl1-bos-wlz-1
San Francisco Bay Area, US	Verizon	US West (Oregon)	us-west-2-wl1-sfo-wlz-1
Atlanta, US	Verizon	US East (N. Virginia)	us-east-1-wl1-atl-wlz-1
Washington DC, US	Verizon	US East (N. Virginia)	us-east-1-wl1-was-wlz-1
New York City, US	Verizon	US East (N. Virginia)	us-east-1-wl1-nyc-wlz-1
Miami, US	Verizon	US East (N. Virginia)	us-east-1-wl1-mia-wlz-1
Dallas, US	Verizon	US East (N. Virginia)	us-east-1-wl1-dfw-wlz-1
Las Vegas, US	Verizon	US West (Oregon)	us-west-2-wl1-las-wlz-1
Tokyo, Japan	KDDI	Asia Pacific (Tokyo)	ap-northeast-1-wl1-nrt-wlz-1
Daejeon, S. Korea	SK Telecom	Asia Pacific (Seoul)	ap-northeast-2-wl1-cjj-wlz-1

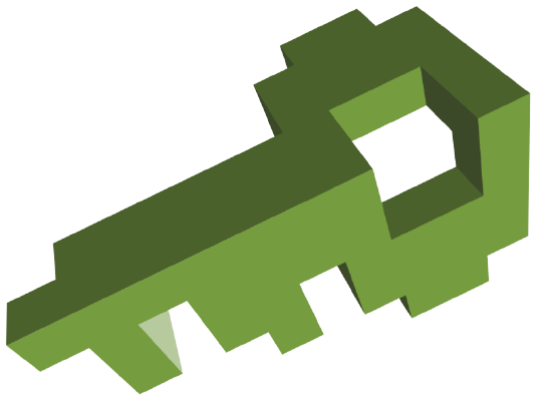
Reference for more details:- https://aws.amazon.com/outposts/

Outposts



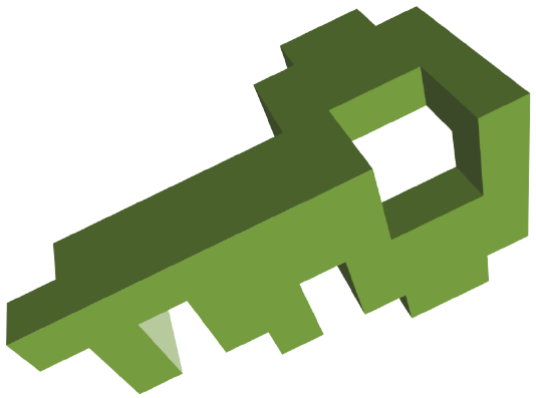
Core Service Categories

1. Compute Services
2. Storage Services
3. Networking and Content Delivery
4. Security, Identity and Compliance
5. Database Services
6. Management and Governance



AWS IAM Concepts

1. Users
2. Groups
3. Policies



AWS Access Methods

1. AWS Management Console
2. AWS CLI
3. AWS API and SDK