

TNGS Learning Solutions

INTRODUCTION TO AWS

AWS (Amazon Web Services)

- Cloud Service Provider
 - Offers various types of services
 - IaaS (Infrastructure as a Service)
 - SaaS (Software as a Service)
 - PaaS (Platform as a Service)
- Leading Cloud Service Providers
- Other CSP
 - GCP → Google Cloud Platform
 - Azure by Microsoft
 - Alibaba Cloud

AWS (Amazon Web Services)

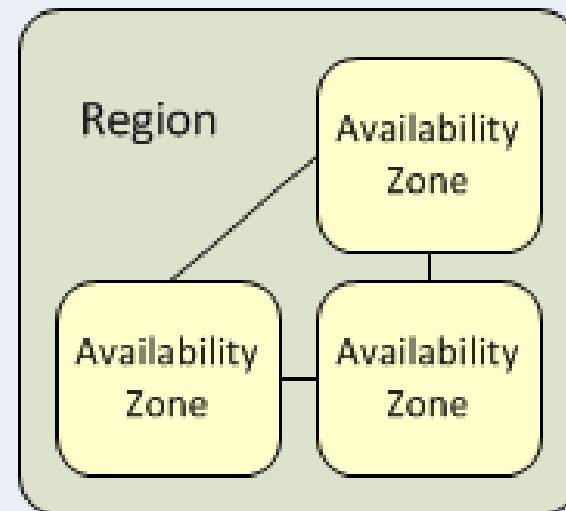
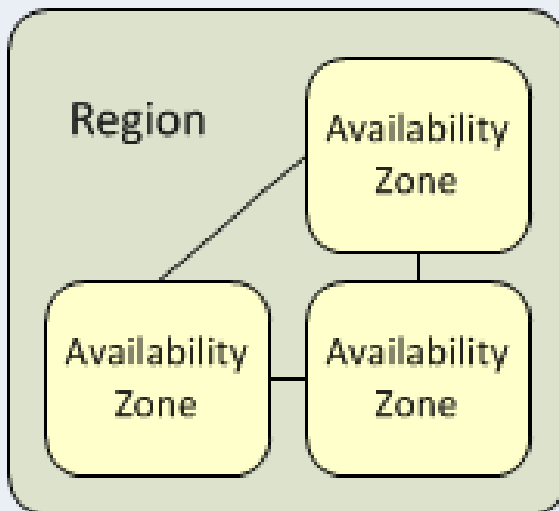
- In AWS platform, we manage resource in isolated locations referred to as **Regions/Data Centers**
- Most Amazon service are hosted in multiple locations world-wide.
 - These Service are referred to as **Region-Specific Services**
- These locations are composed of regions and Availability Zones.
- Each region is a separate geographic area.
- Each region has multiple, isolated locations known as Availability Zones.
- This provides you with the ability to place resources, such as instances, and data in multiple locations.
- Resources aren't automatically replicated across regions unless you specify do so.

Region and Availability Zone Relation

- Each region is completely independent.
- Each Availability Zone is isolated, but the Availability Zones in a region are connected through low-latency links.
- The following diagram illustrates the relationship between regions and Availability Zones.

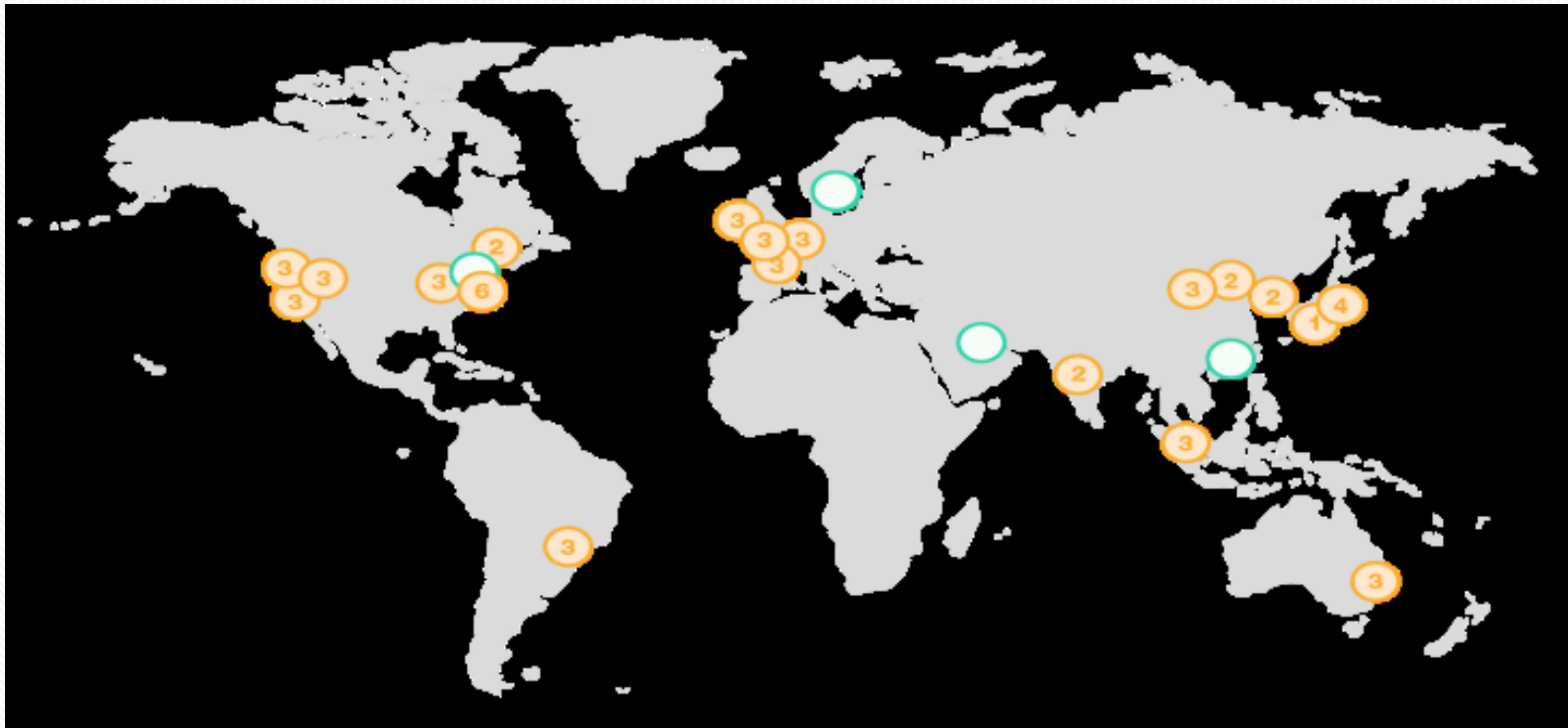
Region and Availability Zone Relation

Amazon Web Services



AWS GLOBAL INFRASTRUCTURE

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



Five Pillars of Well Architect Solutions in AWS

- **Operational Excellence**
- **Security**
- **Reliability**
- **Performance**
- **Cost Optimization**



THANK YOU