



AWS Cloud Practitioner - 1

Foundations of cloud computing



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Certifications

Professional

Two years of comprehensive experience designing, operating, and troubleshooting solutions using the AWS Cloud

Associate

One year of experience solving problems and implementing solutions using the AWS Cloud

Foundational

Six months of fundamental AWS Cloud and industry knowledge



Architect

Operations

Developer

Cloud Practitioner



Specialty

Technical AWS Cloud experience in the Specialty domain as specified in the **exam guide**





What is cloud

- Someone else's computer
- If it doesn't have an API, it's not a cloud
- Scale to zero and pay as you go
- "Best in class" services for common use cases
- Experiment and go global quickly



Regions, AZ's and Edge locations

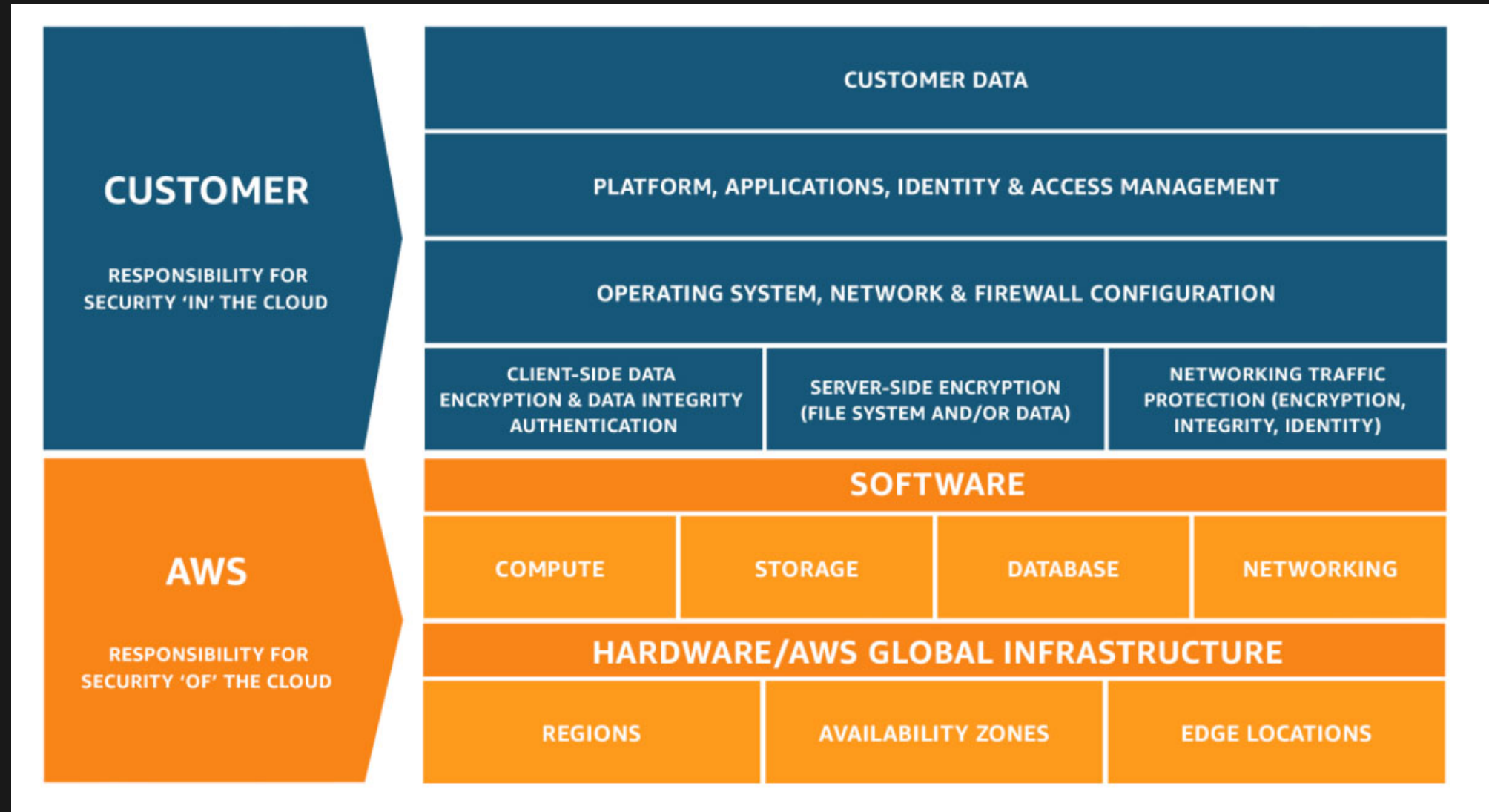
AWS Global Infrastructure Map

The AWS Cloud spans 96 Availability Zones within 30 geographic regions around the world, with announced plans for 15 more Availability Zones and 5 more AWS Regions in Australia, Canada, Israel, New Zealand, and Thailand.





Shared Responsibility Model





Advantages

- Well tested building blocks for common use-cases
- Power to the developers, no more waiting 3 weeks for a server to be provisioned
- Massive scaling and cross region failover
- Fully automatable
- Easy experimentation instead of guesswork



Understanding Cost

- Pricing is different for every service
 - DynamoDB uses RCU/WCU
 - EC2 uses price per minute/second
- Data transfer is usually a big and hidden cost
- There's no such thing as a "free tier account"



A few tips and notes

- The AWS SDK exists
- The SDK uses a default credentials chain
- The root user should be used as little as possible
- You can enforce MFA with roles



In practice



Questions?