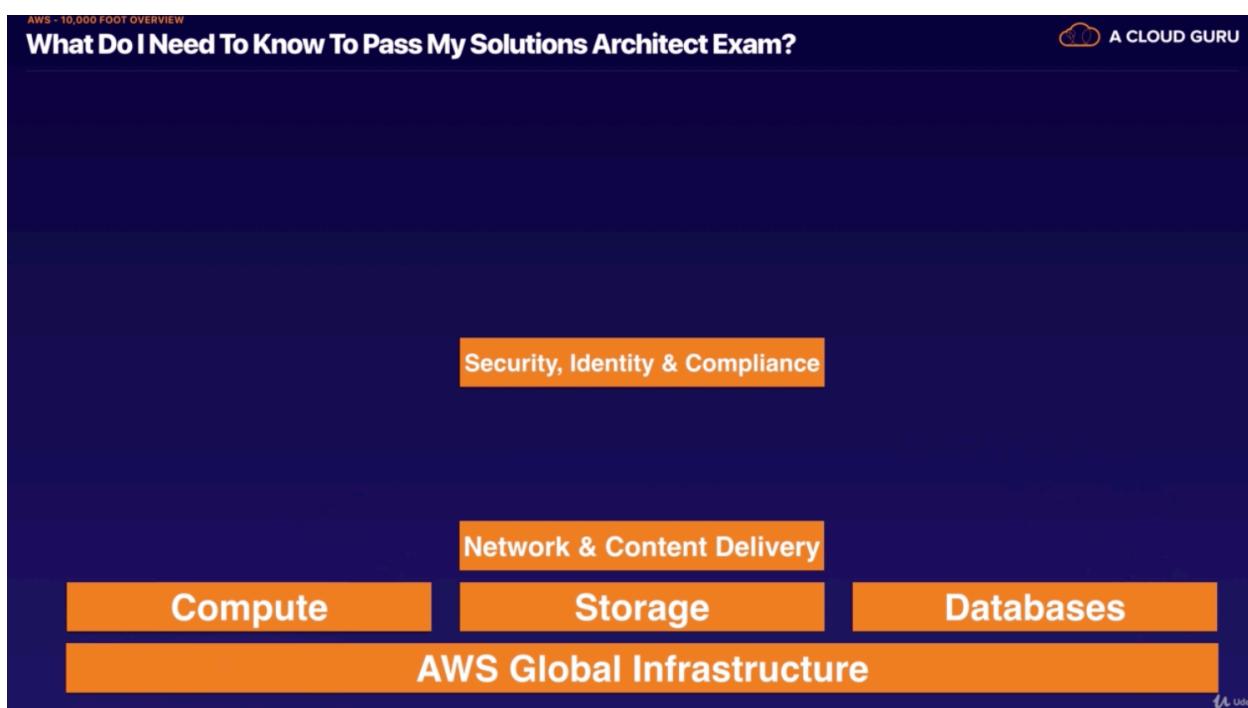


AWS Intro



Understand the difference between a region, an Availability Zone (AZ) and an Edge Location.

- A Region is a physical location in the world which consists of two or more Availability Zones (AZ's).
- An AZ is one or more discrete data centers, each with redundant power, networking and connectivity, housed in separate facilities.
- Edge Locations are endpoints for AWS which are used for caching content. Typically this consists of CloudFront, Amazon's Content Delivery Network (CDN)

Select a Support Plan

AWS offers a selection of support plans to meet your needs. Choose the support plan that best aligns with your AWS usage. [Learn more](#)



Basic Plan

Free



Developer Plan

From \$29/month



Business Plan

From \$100/month

- Included with all accounts
- 24/7 self-service access to forums and resources
- Best practice checks to help improve security and performance
- Access to health status and notifications

- For early adoption, testing and development
- Email access to AWS Support during business hours
- 1 primary contact can open an unlimited number of support cases
- 12-hour response time for nonproduction systems

- For production workloads & business-critical dependencies
- 24/7 chat, phone, and email access to AWS Support
- Unlimited contacts can open an unlimited number of support cases
- 1-hour response time for production systems

Need Enterprise level support?

Contact your account manager for additional information on running business and mission critical-workloads on AWS (starting at \$15,000/month). [Learn more](#)

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Quiz-1

 Good job!
VPC stands for Virtual Private Cloud.

Question 1:

What is an Amazon VPC?

Virtual Public Compute

Virtual Private Cloud

Virtual Public Cloud

Virtual Private Compute

 Good job!

A Virtual Private Cloud (VPC) is a virtual network dedicated to a single AWS account. It is logically isolated from other virtual networks in the AWS cloud, providing compute resources with security and robust networking functionality.

Question 2:

An AWS VPC is a component of which group of AWS services?

Global Infrastructure

Database Services

Networking Services

Compute Services

✓ Good job!

Each region is a separate geographic area. Each region has multiple, isolated locations known as Availability Zones.

› This was discussed in Lecture 5: **AWS - 10,000 Foot Overview**

Question 3:

What does an AWS Region consist of?

- A console that gives you a quick, global picture of your cloud computing environment.
- A collection of databases that can only be accessed from a specific geographic region.
- A collection of data centers that is spread evenly around a specific continent.
- A distinct location within a geographic area designed to provide high availability to a specific geography.

✓ Good job!

An Availability Zone (AZ) is a distinct location within an AWS Region. Each Region comprises at least two AZs.

Question 4:

Which statement best describes Availability Zones?

- A Content Distribution Network used to distribute content to users.
- Restricted areas designed specifically for the creation of Virtual Private Clouds.
- Two zones containing compute resources that are designed to automatically maintain synchronized copies of each other's data.
- Distinct locations from within an AWS region that are engineered to be isolated from failures.

✓ Good job!

A region is a geographical area divided into Availability Zones. Each region contains at least two Availability Zones.

Question 5:

What is an AWS region?

A region is an independent data center, located in different countries around the globe.

A region is a geographical area divided into Availability Zones. Each region contains at least two Availability Zones.

A region is a collection of Edge Locations available in specific countries.

A region is a subset of AWS technologies. For example, the Compute region consists of EC2, ECS, Lambda, etc.

✓ Good job!

The number of Edge Locations is greater than the number of Availability Zones, which is greater than the number of Regions.

Question 6:

Which of the following is correct?

of Regions > # of Availability Zones > # of Edge Locations

of Availability Zones > # of Regions > # of Edge Locations

of Edge Locations > # of Availability Zones > # of Regions

of Availability Zones > # of Edge Locations > # of Regions

✓ Good job!

CloudFront content is cached in Edge Locations.

Question 7:

In which of the following is CloudFront content cached?

Availability Zone

Region

Edge Location

Data Center

What Is IAM?

IAM allows you to manage users and their level of access to the AWS Console.

It is important to understand IAM and how it works, both for the exam and for administrating a company's AWS account in real life.



Key Features of IAM

Identity Access Management (IAM) offers the following features;

- Centralised control of your AWS account
- Shared Access to your AWS account
- Granular Permissions
- Identity Federation (including Active Directory, Facebook, LinkedIn etc)
- Multifactor Authentication
- Provide temporary access for users/devices and services where necessary
- Allows you to set up your own password rotation policy
- Integrates with many different AWS services
- Supports PCI DSS Compliance



Key Terminology For IAM

A CLO

1

Users

End Users such as people, employees of an organization etc.

2

Groups

A collection of users. Each user in the group will inherit the permissions of the group.

3

Policies

Polices are made up of documents, called Policy documents. These documents are in a format called JSON and they give permissions as to what a User/Group/Role is able to do.

4

Roles

You create roles and then assign them to AWS Resources.



Exam Tips

A

What Have We Learnt So Far?

- **IAM is universal.** It does not apply to regions at this time.
- The “**root account**” is simply the account created when first setup your AWS account. It has complete Admin access.
- New Users have **NO permissions** when first created.
- New Users are assigned **Access Key ID & Secret Access Keys** when first created.
- **These are not the same as a password.** You cannot use the Access key ID & Secret Access Key to Login in to the console. You can use this to access AWS via the APIs and Command Line, however.
- **You only get to view these once.** If you lose them, you have to regenerate them. So, save them in a secure location.

Exam Tips

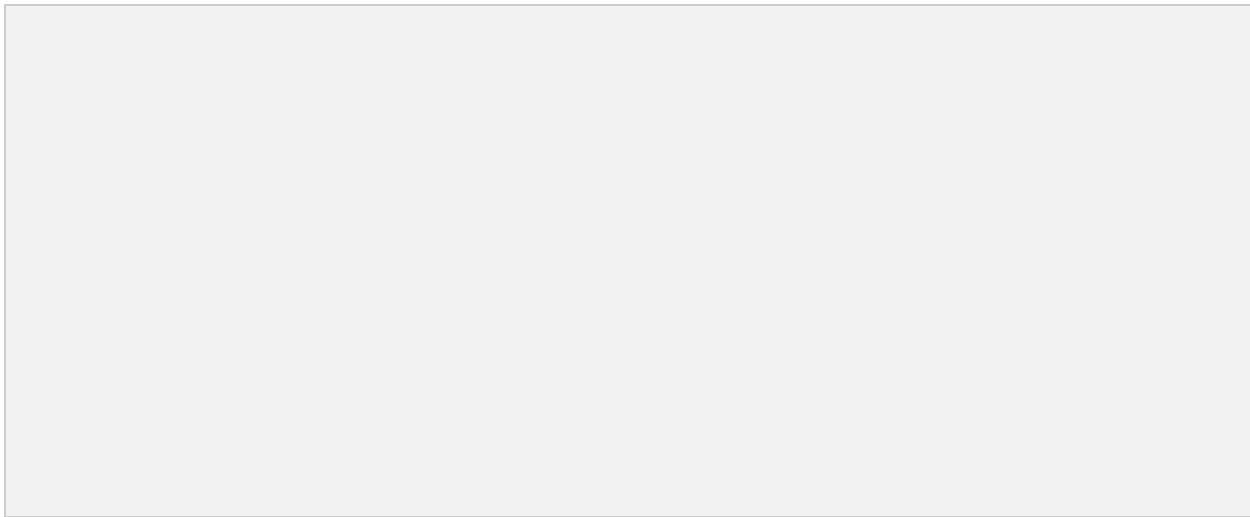


What Have We Learnt So Far?

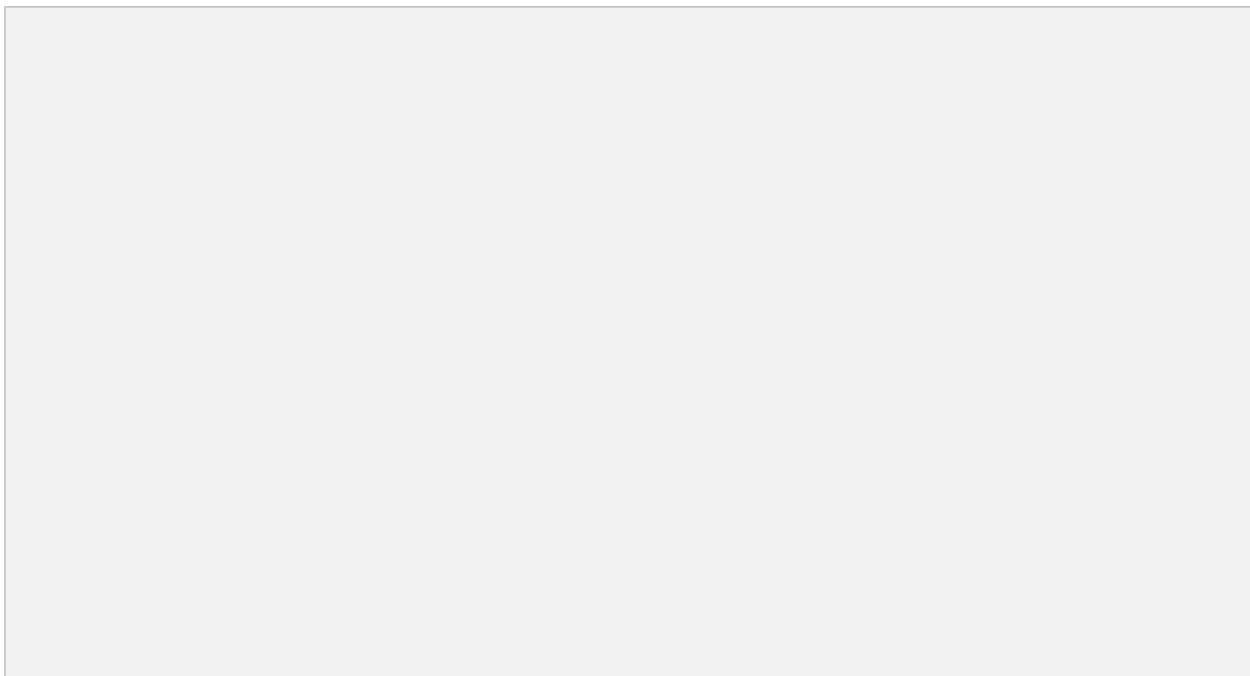
- Always setup Multifactor Authentication on your root account.
- You can create and customise your own password rotation policies.

Simple Storage Service (s3)

Lifecycle Management and Glacier



Cross Region Replication



S3 Lock Policies & Glacier Vault Lock [SAA-C02]