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This study guide demonstrates the lesson from *Summary of Key AWS Services*.

My full AWS Architect Associate course can be found here:

<https://www.udemy.com/course/ultimateaws/?referralCode=7ED214B795C444141361>

AWS Services Overview Study Guide

In this lesson, we will provide an overview of some key AWS services that are commonly used. AWS offers a vast array of services catering to a wide range of use cases. We will discuss the fundamental services, and you can explore more detailed information in the AWS documentation.

Section 1: AWS Services Page

Introduction to AWS Services

- AWS provides a comprehensive set of cloud services designed to help you build and deploy applications, manage infrastructure, and more.
- AWS services cover a wide spectrum of use cases, and we'll explore some of the fundamental ones in this chapter.

Section 2: Virtual Private Cloud (VPC)

Understanding VPC

- VPC, or Virtual Private Cloud, is the networking backbone of your AWS environment.
- It allows you to create and manage your private network within AWS, complete with subnets, route tables, security groups, and more.

Section 3: Amazon EC2 (Elastic Compute Cloud)

Introduction to EC2

- Amazon EC2 is a fundamental AWS service that allows you to run virtual servers (EC2 instances) in the cloud.
- EC2 instances can be used for various purposes, such as web hosting, application development, or data analysis.

Section 4: Amazon RDS (Relational Database Service)

About Amazon RDS

- Amazon RDS is a managed database service that simplifies database administration tasks.
- It supports various database engines like SQL, Oracle, MySQL, and PostgreSQL.
- RDS instances are designed to provide high availability, automated backups, and easy scalability.

Section 5: Amazon Route 53

Understanding Route 53

- Amazon Route 53 is a managed Domain Name System (DNS) service.
- It routes incoming traffic to your AWS resources or performs health checks for resource availability.
- Route 53 plays a critical role in connecting users to your applications hosted on AWS.

Section 6: AWS Lambda

Introduction to AWS Lambda

- AWS Lambda is a serverless computing service that enables you to run code without provisioning or managing servers.
- Lambda functions are event-driven and execute only when triggered.
- It's an efficient way to perform tasks, process data, or run applications in a serverless environment.

Section 7: Amazon S3 (Simple Storage Service)

About Amazon S3

- Amazon S3 is a scalable object storage service designed to store and retrieve data.
- It provides unlimited storage capacity for various data types, including media files, backups, and more.
- Amazon S3 offers high durability and availability for your data.

Section 8: Amazon Glacier

Understanding Amazon Glacier

- Amazon Glacier is a low-cost storage service for long-term data archiving.
- It is ideal for storing data for compliance or backup purposes for extended periods.
- Glacier offers cost-effective, secure data storage.

Section 9: AWS Identity and Access Management (IAM)

Introduction to IAM

- AWS Identity and Access Management (IAM) is the service that enables you to control access to your AWS resources.
- You can create users, groups, and roles, and define permissions for them.
- IAM is vital for maintaining security and managing user access.

Section 10: Amazon CloudWatch

About Amazon CloudWatch

- Amazon CloudWatch is a monitoring service for AWS resources and applications.
- It provides real-time data and insight into resource utilization, performance, and operational health.
- You can set alarms and automate actions based on CloudWatch metrics.

Lesson Review and Key Takeaways

- AWS offers a vast and diverse collection of services for different use cases.
- Understanding the core services is essential for building and managing your cloud infrastructure.
- These services lay the foundation for various cloud computing applications and solutions.
- For more in-depth knowledge and certifications, consider pursuing AWS Certified Solutions Architect Associate or other AWS certifications.

See slides below:

AWS Services

Rick Crisci



Virtual Private Cloud (VPC)

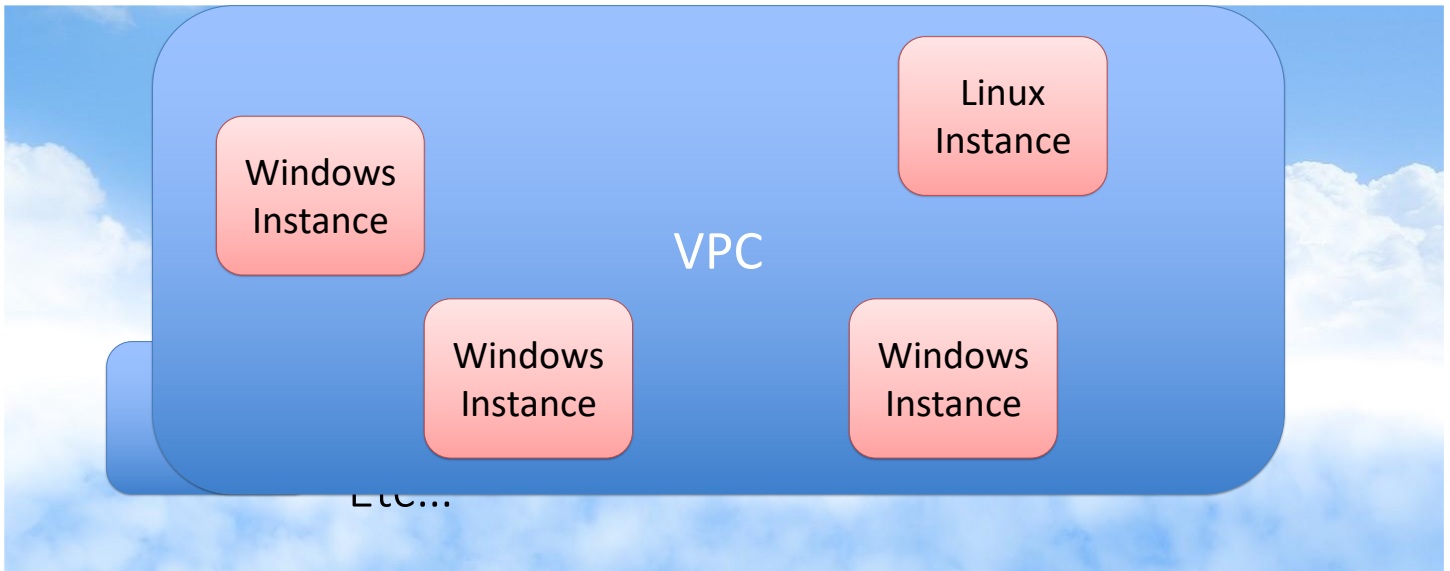


Route Tables
NAT
Security Groups
Access Lists
Internet Gateway
Load Balancing
Etc...

VPC

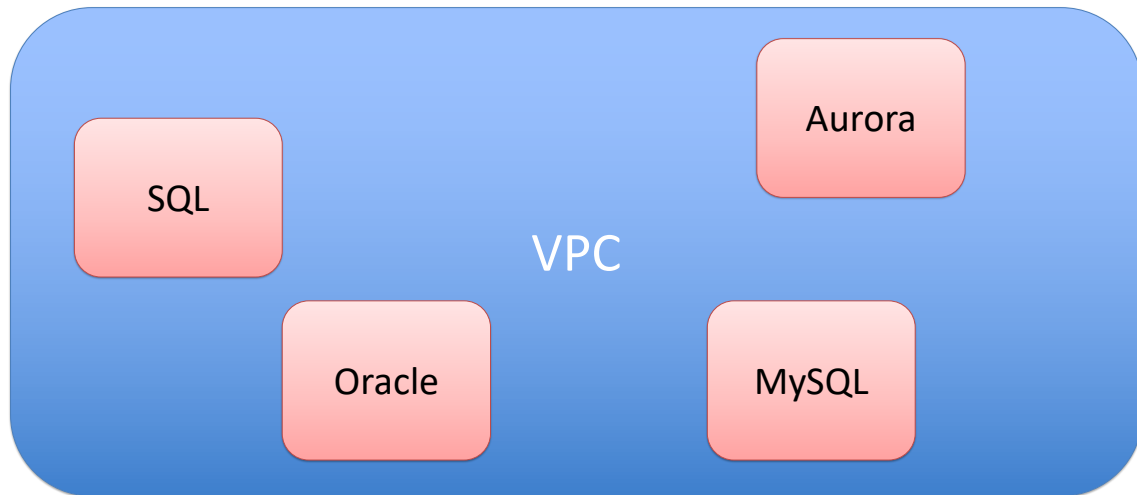
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Elastic Compute Cloud (EC2)



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Relational Database Service (RDS)



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Route 53



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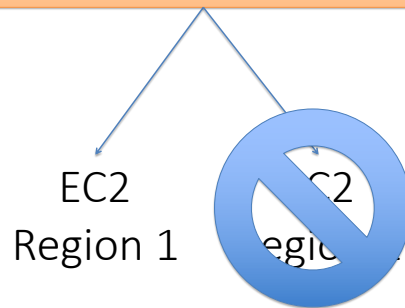
On-Premise Web Server EC2

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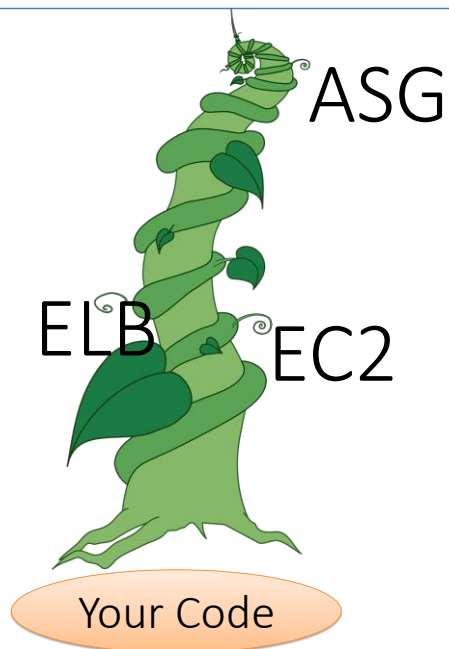
Route 53 Health Check



Route 53



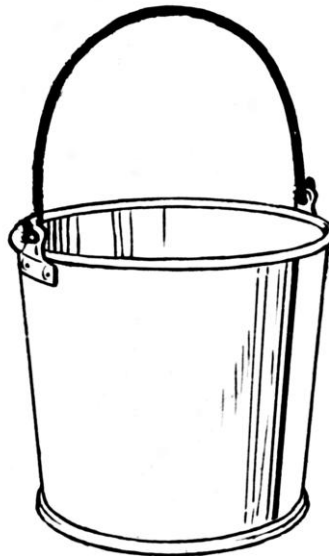
Elastic Beanstalk



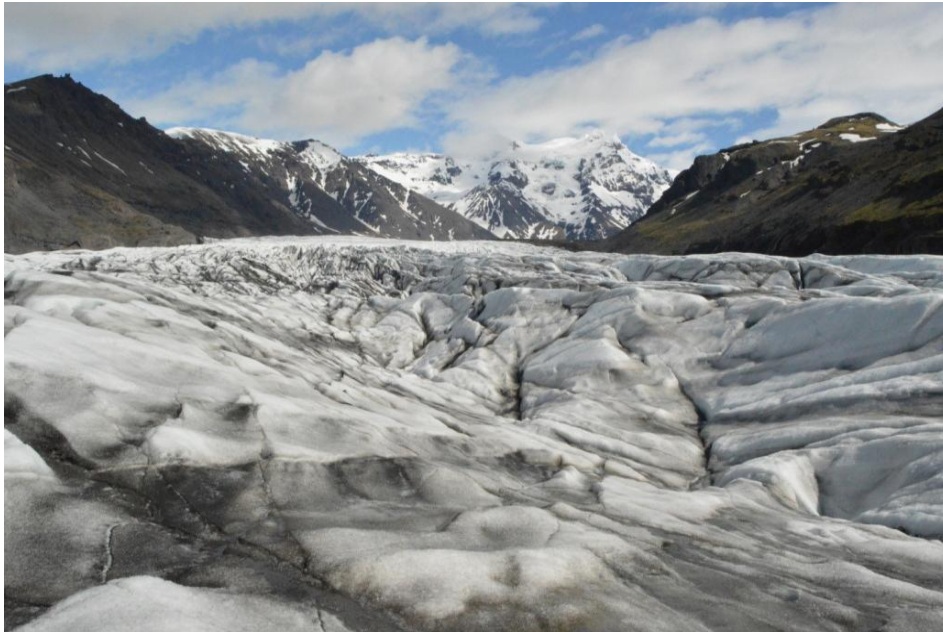
Lambda



S3 (Simple Storage Service)



Glacier



EFS (Elastic File System)



- Like NAS in the cloud
- EC2 instances can mount EFS storage
- EFS provides a common data source for multiple instances
- Physical servers can mount EFS

SnowBall



- Secure Appliance
- Migrate mass data to AWS
- Request from AWS Console

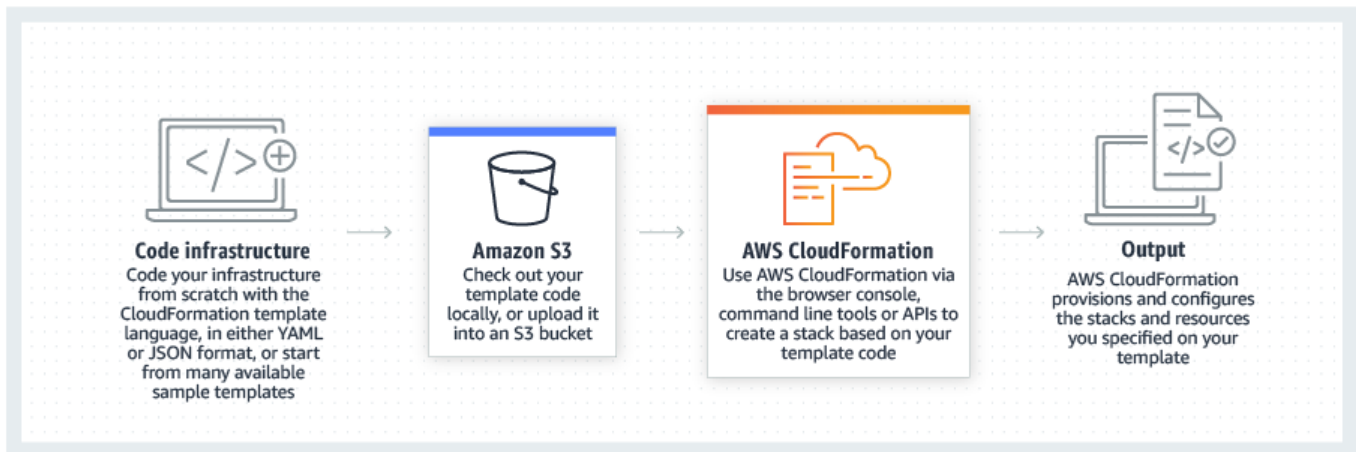


Identity and Access Mgt. (IAM)



Authentication Authorization





CloudTrail



- Logging for API calls
- View identity, time, source IP, request parameters, and response
- Useful for security analysis, change tracking, and compliance auditing
- Multiple solutions are supported



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