

AWS Certified Cloud Practitioner
Training Bootcamp

AWS Services Overview

Networking and Content Delivery

AWS Networking and Content Delivery Overview

- Amazon VPC
- Amazon CloudFront
- Amazon Route 53
- AWS Direct Connect
- Elastic Load Balancing



Networking & Content Delivery

VPC

CloudFront

Route 53

API Gateway

Direct Connect

AWS App Mesh

AWS Cloud Map

Global Accelerator [↗](#)

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AWS Virtual Private Cloud

AWS Virtual Private Cloud (VPC)

- Amazon Virtual Private Cloud (Amazon VPC) lets you provision a logically isolated section of the AWS cloud where you can launch AWS resources in a virtual network that you define
- Think of AWS VPC as your virtual data center in the cloud
- You have complete control over your virtual networking environment; selection your IP address range, create subnets, configure route tables, etc



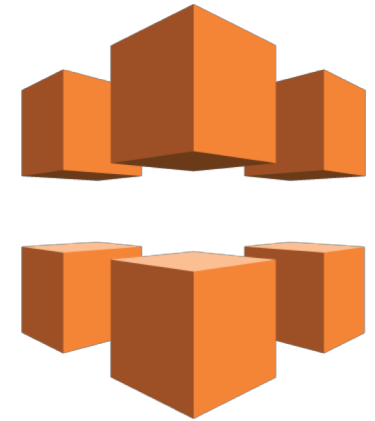
Virtual Private
Cloud

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AWS CloudFront

AWS CloudFront

- Amazon CloudFront is a global content delivery network (CDN) service that accelerates delivery of your websites, APIs, video content or other web assets
- Amazon CloudFront can be used to deliver your entire website, including dynamic, static, streaming, and interactive content using a global network of edge locations and regional edge caches
- Pay only for content you actually deliver through the CDN



CloudFront

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Amazon Route 53

Amazon Route 53

- Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service
- AWS Route 53 routes end users to Internet applications by translating human readable names, such as `www.example.com`, into the numeric IP addresses, such as `192.0.2.1` (computers use IPs to connect to each other)



Route 53

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AWS Direct Connect

AWS Direct Connect

- With AWS Direct Connect you can establish a dedicated network connection from your premises DC to AWS
- This way you can reduce your network costs and increase bandwidth throughput between on-prem locations and AWS Cloud (think of cloud hybrid model)
- The dedicated connection is established using industry standard 802.1Q virtual LANS (VLANs)



Direct Connect

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AWS Elastic Load Balancing

AWS Elastic Load Balancing

- Elastic Load Balancing (ELB) automatically distributes incoming app. traffic across multiple EC2 instances
- ELB can handle the varying load of your application traffic in a single Availability Zone or across multiple Availability Zones
- It enables you to achieve greater levels of fault tolerance in your applications, seamlessly providing the required amount of load balancing capacity needed to distribute application traffic



Elastic Load
Balancing

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Thank you