

### Networking Services

**VPC** Amazon Virtual Private Cloud (VPC) is a virtual data center in AWS consisting of a set of isolated resources.

**Direct Connect** It is used to establish a dedicated network connection from the host network to AWS without an Internet connection.

**Route 53** It is a scalable and highly available Domain Name System (DNS) and domain name registration service, and 53 is the port on which this service runs

### Computing Services

**EC2** It is a virtual server that provides resizable compute capacity on the cloud

**Elastic Beanstalk** It is an application container used for deploying and managing containers. It creates an environment for working with web applications

**Lambda** It is a computing service that runs the code in response to events and automatically manages the computing resources

**EC2 Container Service** It allows us to easily run and manage Docker containers across a cluster of EC2 instances

### Storage Services

**S3** It refers to Simple Storage Service and allows the storage of data objects of any sort and flat files in the cloud. It is secure, scalable, and durable

**CloudFront** CloudFront defines a Content Delivery Network. It provides a way to distribute content to end-users with low latency and high data-transfer speeds

**Glacier** It is a low-cost storage service that provides secure and durable storage for long-term data archiving and backup

**EFS (Elastic File Storage)** It is a file storage service used in EC2 instances and connects to multiple EC2 instances

**Snowball** It is used for moving large amounts of data into/out of AWS using secure appliances, i.e., it provides the data archiving functionality for the data that no longer needs to be accessed actively

### Storage Services (cont)

**Storage Gateway** AWS Storage Gateway is used for securely integrating on-premises IT environments with cloud storage for backup and disaster recovery

**RDS (Relational Database Service)** It allows the storage of data objects as part of the relational database. It makes it easy to set up, operate, and scale familiar relational databases in the cloud

**DynamoDB** It is a scalable NoSQL data store that is used to manage distributed replicas of data for high availability

**Elasti-Cache** It improves application performance by allowing us to retrieve information from an in-memory caching system. It is a way of caching databases in the cloud

**Redshift** It is a fast, fully managed data warehousing service, which makes it cost-effective to analyze all data using the existing Business Intelligence tools

**DMS (Data Migration Service)** It helps in migrating databases to the cloud easily and securely. It can also be used for converting databases



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### Analytics

**Amazon EMR** Amazon Elastic MapReduce helps in performing big data tasks such as web indexing, data mining, and log file analysis

**Data Pipeline** It helps in moving data from one service to another. It is a service used for periodic, data-driven workflows

**AWS Elasti-csearch** It is a managed service that helps in deploying, operating, and scaling Elasticsearch

**Kinesis** It makes it easy to work with real-time streaming data in the AWS cloud

**AWS Machine Learning** It is a service that enables us to easily build smart applications

**QuickSight** AWS QuickSight is a cloud--assisted Business Intelligence service that helps in deriving insights from data easily

### Security and Identity

**IAM** AWS IAM helps in configuring security for all the services. It is used to ensure that our other services remain safe and inaccessible to others

**Directory Service** AWS Directory Service is used to provide a managed directory in the cloud

### Security and Identity (cont)

**Inspector** Amazon inspector enables us to analyze the behaviour of the applications we run on AWS and helps in identifying potential security issues

**AWS WAF (Web Application Firewall)** It protects our web application from attacks by providing web traffic filters

**Cloud HSM** It is a Hardware Security Module

**KMS** It is a Key Management Service

### Management Tools

**CloudWatch** It is used to create different metrics. It provides monitoring for resources and applications

**CloudForm-ation** It helps in creating and updating a collection of related AWS resources

**CloudTrial** It provides increased visibility into user activity by recording API calls made on an account

**AWS OpsWorks:** It is a DevOps platform for managing applications of any size or complexity on the AWS cloud

**Config** It gives an inventory of AWS resources, lets us audit the AWS resource configuration history, and notifies the changes

### Management Tools (cont)

**Service Catalog** It allows organizations to manage approved catalogs of IT resources

**Trusted Advisor** It inspects the AWS environment and finds opportunities to save money and improve system performance

### Application Services

**API Gateway** AWS API Gateway is used to create, maintain, monitor, and secure APIs

**AppStream** It is used to stream resource-intensive applications and games from the cloud to multiple users

**CloudS-earch** It is a completely managed search service for websites and apps

**Elastic Transcoder** It is used to convert media files in the cloud easily at a lower cost

**SES (Simple Email Service)** It is used to send and receive emails

**SQS (Simple Queue Service)** It is a reliable, hosted queue for storing messages

**SWF (Simple Workflow Service)** It is used to coordinate all the processing steps with an application