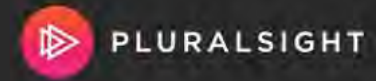


Understanding AWS Core Services - Services List

David Tucker

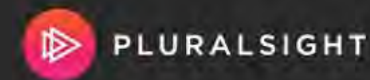


COMPUTE SERVICES	
Amazon EC2	Service that provides secure and resizable virtual servers on AWS
AWS Elastic Beanstalk	Platform (PaaS) for scaling and deploying web apps and services across a specific list of technologies
AWS Lambda	Service that enables you to use compute resources without having to launch or manage the underlying infrastructure - this is leveraged in serverless architectures
CONTENT AND NETWORK DELIVERY SERVICES	
Amazon Route 53	Highly-available AWS Domain Name Service (DNS) service that can be leveraged in creating highly available and fault tolerant applications. This is a global service.
Amazon VPC	Logically isolated section of the AWS Cloud where you can launch AWS resources in a virtual network that you define
AWS Direct Connect	Cloud service solution that makes it easy to establish a dedicated network connection from your data center to AWS
Amazon API Gateway	Fully managed API management service that handles concepts like authentication, logging, and throttling for your API layer
Amazon CloudFront	Amazon's global Content Delivery Network (CDN) service that enables your users to get content from a server that is closest to them
Elastic Load Balancing	Service that enables you to distribute traffic across multiple targets (including EC2, ECS, Lambda).

FILE STORAGE AND DATA TRANSFER SERVICES	
Amazon Simple Storage Service (S3)	Service that provides object storage for objects up to 5 TB in size - with no limit on the total storage
S3 Glacier and Glacier Deep Archive	Archive storage classes for Amazon S3. These are designed for objects you need to keep but don't plan to access.
Amazon Elastic Block Store (EBS)	Persistent block storage designed for use with a single EC2 server. It can scale to support petabytes of data and supports different volume types.
Amazon Elastic File System (EFS)	Fully managed NFS file system designed for Linux workloads with support for petabytes of data
AWS Snowball	Petabyte scale data transfer service where a physical device is delivered to your organization and returned by a local carrier then loaded into Amazon S3
AWS Snowmobile	Exabyte scale data transfer service where a ruggedized shipping container is sent to your office then loaded into Amazon S3
APP INTEGRATION SERVICES	
Amazon Simple Notification Service (SNS)	Managed pub/sub (publish / subscribe) messaging service. This can enable fan-out architecture with one message triggering multiple actions.
Amazon Simple Queue Service (SQS)	Managed message queue service. This can enable fault tolerant and serverless applications. This supports standard and FIFO (first-in first-out) queues.
AWS Step Functions	Manages the orchestration of complex workflows which are defined using Amazon States Language. It can be leveraged in a serverless architecture.

Understanding AWS Core Services - Services List

David Tucker



MANAGEMENT & GOVERNANCE SERVICES	
AWS CloudTrail	Service that provides audit trail for all services used in an AWS account (across all interaction methods)
AWS CloudFormation	Managed service for launching infrastructure based on templates
Amazon CloudWatch	Monitoring and management service that integrates with most AWS services. It provides both metrics and alarms based on those metrics.
AWS Config	Provides continual analysis of AWS resources to ensure they are meeting rules defined in the service
AWS Systems Manager	Service that provides a collection of tools and insight into operational data for central management of those cloud or on-premise instances.
AWS Control Tower	System that launches a multi-account configuration based on AWS best practices
DATABASE SERVICES & UTILITIES	
Amazon Relational Database Service (RDS)	Managed service for relational databases including support for MySQL, PostgreSQL, MariaDB, Oracle, SQL Server, and Amazon Aurora
Amazon Aurora	MySQL and PostgreSQL compatible database that was built for the cloud
Amazon DynamoDB	Fully managed NoSQL database service that has extremely low latency and scaling based on configuration
Amazon Redshift	Managed petabyte scale data warehousing solution on AWS. In addition, Redshift Spectrum support querying exabytes of data stored in Amazon S3.

Amazon ElastiCache	Fully-managed in-memory data store that supports memcached and Redis engines
AWS Database Migration Service (DMS)	Service that enables you to move your data (from popular commercial and open source databases) easily onto the cloud