

# Introduction to Security & Architecture on AWS - Services List

David Tucker



COMPLIANCE SERVICES	
<b>AWS Config</b>	Service that enables you to continually monitor your resources for adherence to best practices
<b>AWS Artifact</b>	Portal that provides self-service access to AWS compliance reports and agreements you may have with AWS
<b>Amazon GuardDuty</b>	Fully-managed service that continually monitors your AWS account and resources for potential malicious behavior and anomalies
IDENTITY SERVICES	
<b>AWS Identity and Access Management (IAM)</b>	Service that controls access to AWS resources. This is where you create IAM users, IAM groups, and roles. Policies are attached to identities for permission to access resources.
<b>Amazon Cognito</b>	User directory service for custom applications that can also enable access to AWS resources for your custom applications
DATA SERVICES	
<b>AWS Storage Gateway</b>	Hybrid-cloud storage service that enables companies to take advantage of cloud storage on their local networks
<b>AWS DataSync</b>	Automated data transfer service that efficiently transfer data from your local network into AWS
<b>AWS Glue</b>	Fully-managed serverless extract, transform, and load (ETL) service
<b>Amazon EMR</b>	Big-data cloud-based tool suite using popular open source tools including Apache Spark, Apache Hive, Presto, and many others.

<b>AWS Data Pipeline</b>	Data workflow orchestration service that supports multiple AWS services providing extract, transform, and load (ETL) capabilities
<b>Amazon Athena</b>	Service that enables serverless querying of data stored within Amazon S3 using standard SQL queries
<b>Amazon QuickSight</b>	Fully-managed Business Intelligence (BI) service enabling self-service data dashboards for data stored in the cloud
<b>Amazon CloudSearch</b>	Managed search service for custom applications
AI & ML SERVICES	
<b>Amazon Rekognition</b>	Computer vision service powered by Machine Learning that can detect objects in images and video
<b>Amazon Translate</b>	Text translation service powered by Machine Learning that can translate text (either streaming or in batch) into many different languages. It also provides language detection.
<b>Amazon Transcribe</b>	Audio transcription service powered by Machine Learning that can transcribe audio (either streaming or in batch) in many different languages
SECURITY SERVICES	
<b>AWS Shield</b>	Managed Distributed Denial of Service (DDoS) protection service for apps running on AWS
<b>Amazon Macie</b>	Data classification, protection, and monitoring service powered by machine learning for Amazon S3 data
<b>Amazon Inspector</b>	Automated security assessment service for EC2 instances

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EC2 AND VPC CAPABILITIES	
<b>Auto Scaling Group</b>	EC2 capability that manages a group of EC2 instances that have rules for automated scaling and management which includes health checks for each member of the group
<b>Elastic Load Balancing</b>	Service that supports routing traffic across multiple targets including EC2 instances, Lambda functions, as well as other targets on AWS
<b>Security Groups</b>	Firewall-like controls for EC2 instances within a VPC that controls access for inbound and outbound traffic. Instances can have multiple security groups
<b>Network Access Control Lists (ACL)</b>	Control for inbound and outbound traffic within a specific subnet in a VPC. Traffic can be allowed or denied based on custom rules
<b>AWS VPN</b>	Service that supports an encrypted tunnel into a VPC. This can support either site-to-site (from your data center into the VPC) or client (from a single computer into the VPC)
<b>AWS Secrets Manager</b>	Service that manages secrets (such as passwords, keys, tokens, etc...) used in your custom applications on AWS. It also supports auto-rotation of credentials on supported AWS services
LAUNCHING PRE-DEFINED INFRASTRUCTURE ON EC2	
<b>AWS Service Catalog</b>	Service for offering your organization's pre-defined IT offerings to other members of your organization in a self-service portal on AWS
<b>AWS Marketplace</b>	Catalog of third-party software offerings that makes it easy to launch pre-defined solutions onto your AWS account from these vendors

DEVELOPER SERVICES	
<b>AWS CodeCommit</b>	Fully-managed source control service using Git
<b>AWS CodeBuild</b>	Fully-managed build and continuous integration service on AWS
<b>AWS CodeDeploy</b>	Fully-managed deployment service for applications running on Amazon EC2, AWS Fargate, AWS Lambda, and on-premise servers
<b>AWS CodePipeline</b>	Fully-managed continuous delivery service on AWS for automating building, deploying, and testing. Integrates with other developer services
<b>AWS CodeStar</b>	Workflow tool for automatic creation of a continuous delivery pipeline for a custom application using the other developer services