

AWS Certified Cloud Practitioner  
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# AWS Services Overview

## Security, Identity and Compliance

# AWS Security, Identity and Compliance Overview

- AWS Identity and Access Management
- AWS Key Management Service
- AWS Shield
- AWS WAF
- Amazon Cloud Directory
- AWS Directory Service
- Amazon Inspector
- AWS Organizations
- AWS Certificate Manager
- AWS CloudHSM



## Security, Identity, & Compliance

IAM

Resource Access Manager

Cognito

Secrets Manager

GuardDuty

Inspector

Amazon Macie [↗](#)

AWS Single Sign-On

Certificate Manager

Key Management Service

CloudHSM

Directory Service

WAF & Shield

Artifact

Security Hub

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# AWS Identity and Access Management

# AWS Identity and Access Management (IAM)

- AWS Identity and Access Management (IAM) enables you to securely control access to AWS services and resources for your users
- With IAM, you can create and manage AWS users and groups, and use permissions to allow and deny their access to AWS resources
- Using IAM you can control WHO can access WHAT, WHEN and HOW

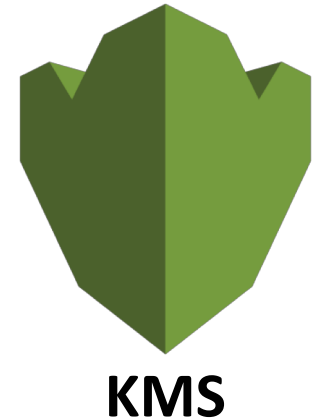


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# AWS Key Management Service

# AWS Key Management Service

- AWS Key Management Service (KMS) is a managed service that makes it easy for you to create and control the encryption keys used to encrypt your data
- AWS KMS is integrated with different AWS services to help you protect data used or stored by these services
- Also, KMS is also integrated with CloudTrail, in order to provide logs of what encryption keys are being used

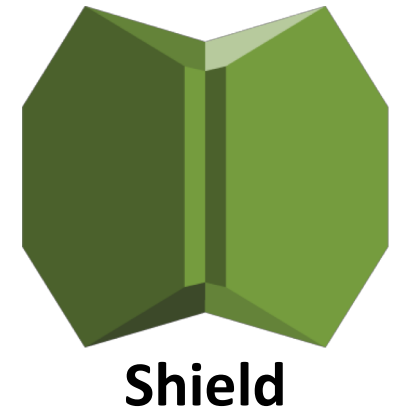


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# AWS Shield

# AWS Shield

- AWS Shield is a managed Distributed Denial of Service (DDoS) protection service that safeguards web applications running on AWS
- A Denial-of-Service (DoS) attack is a malicious attempt to overwhelm an online service and make it unusable (“shut down”)
- A DDoS attack occurs when multiple systems orchestrate a synchronized DoS attack to a single target



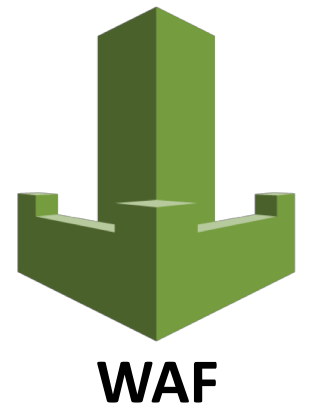


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# AWS WAF

# AWS WAF

- AWS Web Application Firewall (WAF) is a web application firewall that helps protect your web applications from common web exploits or attacks
- You can use AWS WAF to create custom rules that block attack patterns such as SQL injection, cross-site scripting and others
- With AWS WAF you can also define which traffic to allow or block to your web application



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# Amazon Cloud Directory

# Amazon Cloud Directory

- Amazon Cloud Directory enables you to build flexible, cloud-native directories for organizing hierarchies of data along multiple dimensions
- Directories store information about users, groups and devices and administrators use them to manage access to information and resources
- Amazon Cloud Directory is used for cloud-scale deployments



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# AWS Directory Service

# AWS Directory Service

- You should AWS Directory Service for Microsoft Active Directory (Standard or Enterprise Edition) if you need an actual Microsoft Active Directory in the AWS Cloud
- Some of the features supported : Active Directory–aware workloads or AWS applications and services such as Amazon WorkSpaces and Amazon QuickSight, LDAP support for Linux applications
- AWS Directory Services = Microsoft AD



Directory Service

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# AWS Miscellaneous Services

# AWS Miscellaneous Security & IAM Services

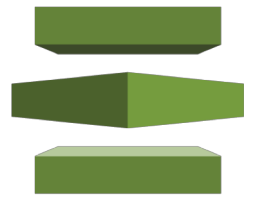
- Amazon Inspector is an automated security assessment service that helps improve the security and compliance of apps deployed on AWS
- AWS Organizations allows you to create groups of AWS accounts for multiple accounts centralized management
- AWS Certificate Manager is a service that lets you provision, manage, and deploy (SSL/TLS) certificates for use with AWS services



Inspector



Organizations



Certificate  
Manager



# AWS Miscellaneous Security & IAM Services



- AWS CloudHSM is a cloud-based hardware security module (HSM) that enables you to easily generate and use your own encryption keys on the AWS Cloud
- You can securely generate, store, and manage the cryptographic keys used for data encryption such that they are accessible only by you

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Thank you