Comparison of AWS Security Services

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Service	Description	Key Features	Primary Use Case
Amazon Cognito	Provides user identity and authentication management for web and mobile apps.	User sign-up/sign-in, Multi-Factor Authentication (MFA), and social login integration.	User authentication and identity management.
Amazon Detective	Helps identify the root cause of potential security issues by analyzing and visualizing AWS account activities.	Security investigation, Visualized security data, Automated analysis.	Security investigation and forensic analysis.
Amazon GuardDuty	Threat detection service that continuously monitors for malicious or unauthorized behavior in AWS environments.	Real-time threat detection, AI-driven analysis, CloudTrail, VPC Flow Logs, and DNS Logs integration.	Threat detection and monitoring.
Amazon Inspector	Automates security assessments to improve the security and compliance of applications deployed on AWS.	Vulnerability management, Automated security assessments, EC2 and container scanning.	Vulnerability scanning and compliance checks.
Amazon Macie	A fully managed data security and privacy service that uses ML to discover and protect sensitive data, such as personally identifiable information (PII).	Sensitive data discovery, Data classification, ML-driven insights, Automated data protection policies.	Protecting sensitive data and ensuring privacy compliance.
Amazon Security Lake	Centralized security data lake for storing, analyzing, and acting on security data.	Security event storage, Integration with security analytics tools, Supports multiple data formats.	Centralized security data management and analysis.
Amazon Verified Permissions	Provides a managed authorization service that helps build fine-grained access control into applications.	Fine-grained access control, Policy-based permissions management, Integration with AWS services and apps.	Authorization management and access control in applications.
AWS Artifact	A repository of compliance reports and agreements that provide evidence of AWS's security and compliance.	Access to security compliance reports, Regulatory compliance, Exportable compliance reports.	Compliance management and audit reporting.
AWS Audit Manager	Simplifies auditing by automating evidence collection and helping you continuously audit your AWS usage.	Automated evidence collection, Framework-based audits, Integration with AWS services.	Continuous compliance and audit readiness.
AWS Certificate Manager	Manages the creation, deployment, and renewal of SSL/TLS certificates for use with AWS services.	Automated certificate provisioning, Certificate renewal, Public and private certificates.	SSL/TLS certificate management.
AWS CloudHSM	Offers hardware security module (HSM) appliances in the AWS Cloud to provide secure key storage and cryptographic operations.	Dedicated HSM appliances, Secure key storage, Cryptographic operations.	Cryptographic operations and key management.

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AWS Directory Service	Enables the use of managed Microsoft Active Directory in the AWS Cloud, or integrates with existing on-premises directories.	Active Directory support, Single Sign-On (SSO), LDAP integration.	Identity management and directory services.
AWS Firewall Manager	A security management service to centrally configure and manage firewall rules across your accounts and applications.	Centralized firewall management, Integration with AWS WAF and AWS Shield, Policy enforcement.	Firewall management across AWS accounts and resources.
AWS Identity and Access Management (IAM)	Enables secure control of access to AWS services and resources for users, groups, and roles.	Granular access control, Role-based access, MFA, and policy management.	Identity and access control for AWS services.
AWS Key Management Service (KMS)	Managed service that enables the creation and control of encryption keys used to encrypt data across AWS services and applications.	Key creation and management, Integration with AWS services, Audit and monitoring capabilities.	Data encryption and key management.
AWS Network Firewall	Provides scalable and flexible network protection across VPCs.	Stateful and stateless rules, VPC traffic filtering, Centralized management with AWS Firewall Manager.	Network-level security and traffic control.
AWS Resource Access Manager (RAM)	Enables sharing of AWS resources across AWS accounts within an organization.	Resource sharing, Centralized access control, Multi-account support.	Cross-account resource sharing within AWS Organizations.
AWS Secrets Manager	Helps manage, retrieve, and rotate database credentials, API keys, and other secrets.	Secret rotation, Secure secret storage, Access management.	Managing and storing secrets securely.
AWS Security Hub	A security service that provides a comprehensive view of your AWS security posture and helps you automate security checks.	Security alerts, Centralized security management, Integration with GuardDuty, Inspector, Macie, etc.	Centralized security monitoring and management.
AWS Shield	Provides DDoS protection to safeguard applications running on AWS.	DDoS attack protection, AWS WAF integration, 24/7 monitoring.	Protection against DDoS attacks.
AWS IAM Identity Center	Successor of AWS SSO, enables centralized management of access to AWS accounts and applications.	SSO, Multi-account access control, Centralized identity management.	Centralized access management across multiple AWS accounts.
AWS WAF	A web application firewall that helps protect your applications from common web exploits.	Web traffic filtering, Rule-based access control, Integration with CloudFront and Application Load Balancer.	Protecting web applications from attacks.
AWS WAF Captcha	A feature of AWS WAF that adds CAPTCHA challenges to web traffic to verify that the access is legitimate.	CAPTCHA-based challenge, Prevents automated bots, Integration with AWS WAF.	Preventing bot-based web traffic attacks.