

AWS Security Hub

Automate AWS security checks and centralize security alerts

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Agenda

- Security and compliance challenges
- Threat detection, monitoring, and response
- What is AWS Security Hub?
- Elevate your security with AWS
- Security Hub use cases and customers
- Get started with Security Hub



Challenges security teams face



Lack of visibility into security risks and their impact



Adjust security measures at scale to meet the needs of the organization



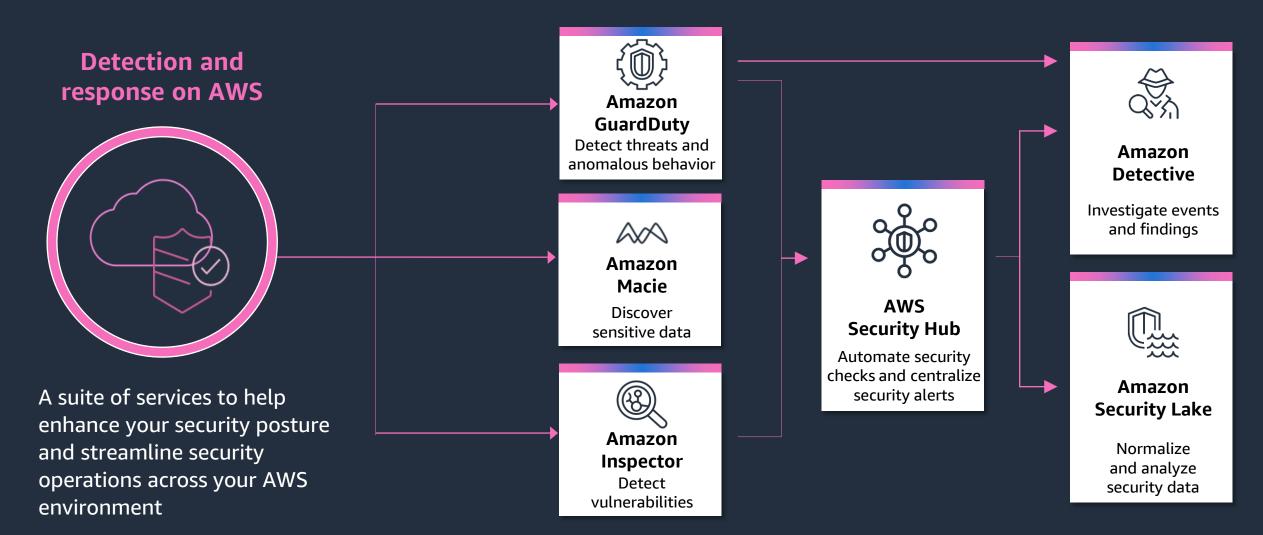
Multiple sources of security alerts



Too many alerts, and not enough context



AWS detection and response services





What is AWS Security Hub?



Security Hub is a cloud security posture management service that **continually** performs security best practice checks and **seamlessly** aggregates security findings from AWS and third-party services to enable automated response



Automated, continuous best practice checks



AWS Foundational Security Best Practices (FSBP) standard, CIS, and more



Simple deployment, scalable up to 10K accounts



AWS and 3rd-party services findings aggregation across accounts and Regions



Automated response, and enrichment actions



Standards and controls





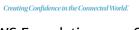


PCI DSS

NIST

AWS FSBP





CIS AWS Foundations Benchmark

Service-managed standards

Findings ingestions







Amazon

Inspector

AWS

Firewall

Manager

AWS Config

Amazon GuardDuty





Amazon

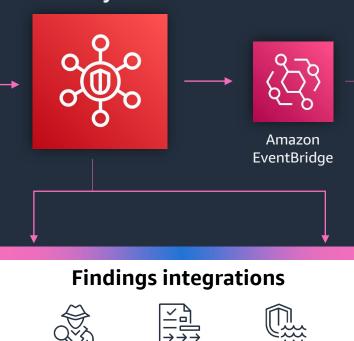
Macie Management (IAM)



... and many more

Security Hub finding flows











Amazon Detective **AWS Audit** Manager

Amazon Security Lake



AWS Trusted Advisor



AWS Chatbot

Remediation actions







AWS Systems Manager



AWS Step Functions

Take action with AWS Partners















... plus many others

Automate and reduce risk with integrated services

Comprehensive set of APIs and security tools



Continuous monitoring and protection





Operational efficiencies to focus on critical issues





Securely deploy business critical applications



How customers use Security Hub



Conduct Cloud Security Posture Management (CSPM)



Initiate Security Orchestration, Automation, and Response (SOAR) workflows



Save time and money by simplifying integrations



Visualize security findings to discover new insights



Siemens Strengthens Security and Enhances Productivity Using AWS

Pulling data individually from each source and doing our own correlations was difficult. Migrating to AWS Security Hub and Amazon GuardDuty gave us a central view into that data, which was very desirable.

Scott Schwartz

Senior Infrastructure Engineer, Siemens

https://aws.amazon.com/solutions/case-studies/siemens-security



Southwest Airlines Invests in Its Security Posture Using AWS Security Hub



CHALLENGE

Southwest Airlines (Southwest) wanted to invest in its security posture to protect the many integrated applications that keep the airline running safely and smoothly.

APPROACH & SOLUTION

Southwest adopted AWS Security Hub, a key part of a broader automated and scalable integration that provides users with a comprehensive view of their security alerts and security posture across AWS accounts.

- ✓ Improved visibility into its security posture
- Reduced time and labor when implementing 350+ automated security controls
- ✓ Scans 600,000 resources with 98% compliance across 350+ security control objectives
- ✓ Reduced implementation time for new controls from 5–6 weeks to 1 week



https://aws.amazon.com/solutions/case-studies/southwest-case-study/

GoDaddy Centralizes Security Findings and Gains Insights Using AWS Security Hub

CHALLENGE



GoDaddy was looking for a way to streamline the time-consuming processes of parsing and normalizing data from multiple security tools into a common format for search, analytics, and response and remediation.

APPROACH & SOLUTION

Using Security Hub, GoDaddy manages security from a serverless, customizable, centralized location that has increased visibility and coverage while saving GoDaddy significant overhead and maintenance costs.

- ✓ Centralized and streamlined security findings
- ✓ Created customized dashboards for users
- Alleviated maintenance and overhead by automating processes
- ✓ Saved cost by not paying for downtime between scans
- Reduced mean time to remediate with continual vulnerability scanning

aws

https://aws.amazon.com/solutions/case-studies/godaddy-case-study/

Get started with Security Hub



Try Security Hub for 30 days at no cost

Estimate your monthly spend across AWS accounts and Regions.



Explore Security Hub features

Learn more about accurate, account-level threat detection, optimized for cloud.



Consult the documentation

Learn more about standards and controls, managing findings, and integrations.



Discover more resources

Get hands-on, find an AWS Partner, or find answers to frequently asked questions.





Thank you!

Matias Dieguez

Appendix

AWS security, identity, and compliance solutions



Scale with superior visibility and control



Control where your data is stored and who can access it

Fine-grain identity and access controls so users and groups have the right access to resources

Reduce risk via security automation and continuous monitoring

Integrate AWS services with your solutions to support existing workflows, streamline ops, and simplify compliance reporting

Highest standards for privacy and data security



Meet data residency requirements Choose an AWS Region,

and AWS will not replicate it elsewhere unless you choose to do so



Encryption at scale

with keys managed by AWS Key Management Service or manage your own encryption keys with AWS CloudHSM using FIPS 140-2 Level 3 validated HSMs



Comply with local data privacy laws

by controlling who can access content, its lifecycle, and its disposal



Access services and tools that enable you to build compliant infrastructure on top of AWS



AWS security, identity, and compliance solutions



Identity and access management

AWS Identity and Access Management (IAM)

AWS IAM Identity Center

AWS Organizations

AWS Directory Service

Amazon Cognito

AWS Resource Access
Manager

Amazon Verified Permissions



Detective controls

AWS Security Hub

Amazon GuardDuty

Amazon Security Lake

Amazon Inspector

Amazon CloudWatch

AWS Config

AWS CloudTrail

VPC Flow Logs

AWS IoT Device Defender



Infrastructure protection

AWS Firewall Manager

AWS Network Firewall

AWS Shield

AWS WAF

Amazon VPC

AWS PrivateLink

AWS Systems Manager

AWS Verified Access



Data protection

Amazon Macie

AWS Key Management Service (KMS)

AWS CloudHSM

AWS Certificate Manager

AWS Private CA

AWS Secrets Manager

AWS VPN

Server-Side Encryption



Incident response

Amazon Detective

Amazon EventBridge

AWS Backup

AWS Security Hub

AWS Elastic Disaster Recovery



Compliance

AWS Artifact

AWS Audit Manager



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Large community of security partners & solutions

Network and infrastructure security



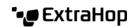






















SOPHOS



Host and endpoint security









Identity and







Logging, monitoring, SIEM, threat detection, and analytics

V

LACEWORK

McAfee

SECURONIX
Security Analytics, Delivered.

splunk>

sumo logic



onelogin





Application security

Barracuda



Data protection and encryption























Consulting and technology competency partners

Security engineering











8K Miles



































Inspire the Next

Telefonica

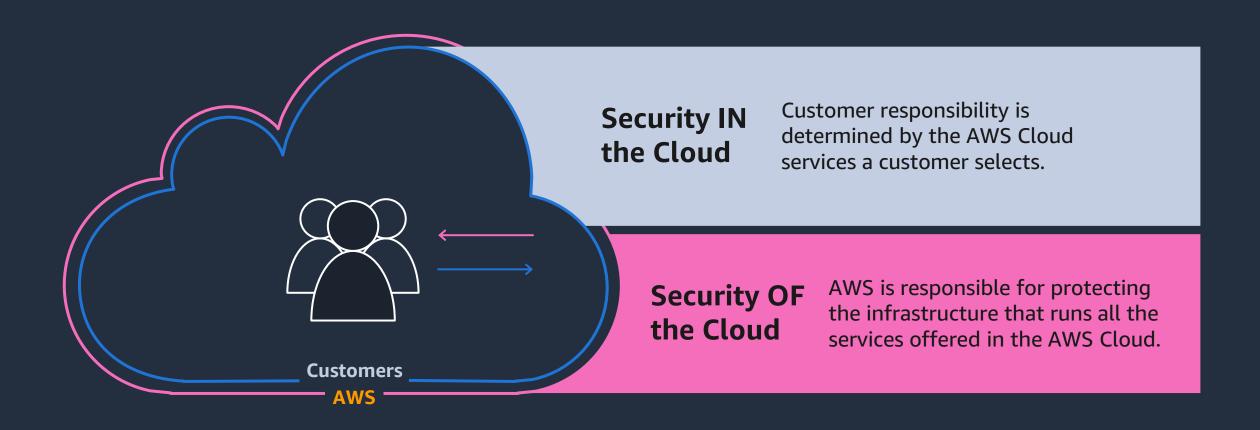
Governance, risk, and compliance



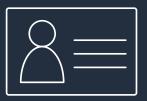
Security operations and automation



Shared responsibility model







Identity and access management

Define, enforce, and audit user permissions across AWS services, actions, and resources



AWS Identity and Access Management (IAM)

Securely manage access to AWS services and resources



AWS IAM Identity Center

Centrally manage SSO access to multiple AWS accounts and business apps



AWS Directory Service

Managed Microsoft Active Directory in AWS



Amazon Cognito

Add user sign-up, sign-in, and access control to your web and mobile apps



AWS Organizations

Policy-based management for multiple AWS accounts



AWS Resource Access Manager

Simple, secure service for sharing AWS resources

Amazon Verified Permissions

Fine-grained permissions and authorization for your applications





Detective controls

Gain the visibility you need to spot issues before they impact your business, improve your security posture, and reduce the risk profile of your environment



AWS Security Hub

Automate AWS security checks and centralize security alerts.



Amazon GuardDuty

Protect your AWS accounts with intelligent threat detection.



Amazon Inspector

Automated and continual vulnerability management at scale.



Amazon CloudWatch

Observe and monitor resources and applications on AWS, on premises, and on other clouds.



AWS Config

Assess, audit, and evaluate configurations of your resources.



AWS CloudTrail

Track user activity and API.



VPC Flow Logs

Capture info about IP traffic going to and from network interfaces in your VPC.

Amazon Security Lake

Automatically centralize your security data in a few steps.





Infrastructure protection

Reduce surface area to manage and increase privacy for and control of your overall infrastructure on AWS



AWS Firewall Manager

Centrally configure and manage firewall rules across your accounts.



AWS Network Firewall

Deploy network firewall security across your VPCs.



AWS Shield

Maximize application availability and responsiveness with managed DDoS protection.



AWS WAF

Protects your web applications from common exploits.



Amazon Virtual Private Cloud

Define and launch AWS resources in a logically isolated virtual network.



AWS PrivateLink

Establish connectivity between VPCs and AWS services without exposing data to the internet.



AWS Systems Manager

Gain operational insights into AWS and on-premises resources.

AWS Verified Access

Provide secure access to corporate applications without a VPN.





Data protection

A suite of services designed to automate and simplify many data protection and security tasks ranging from key management and storage to credential management.



Amazon Macie

Discover and protect your sensitive data at scale.



AWS Key Management Service (AWS KMS)

Create and control keys used to encrypt or digitally sign your data.



AWS CloudHSM

Manage single-tenant hardware security modules (HSMs) on AWS.



AWS Certificate Manager

Provision and manage SSL/TLS certificates with AWS services and connected resources.



AWS Secrets Manager

Centrally manage the lifecycle of secrets.



AWS VPN

Connect your on-premises networks and remote workers to the cloud.



Server-Side Encryption

Flexible data encryption options using AWS service managed keys, AWS managed keys via AWS KMS, or customer managed keys.

AWS Private CA

Create private certificates to identify resources and protect data.





Incident response

During an incident, containing the event and returning to a known good state are important elements of a response plan. AWS provides the following tools to automate aspects of this best practice.



Amazon Detective

Analysis and visualization of security data to get to the root cause of potential security issues quickly



Amazon EventBridge

Serverless event bus that makes it easier to build eventdriven applications to scale your programmed, automated response to incidents



AWS Backup

Centrally manage and automate backups across AWS services to simplify data protection at scale



AWS Security Hub

Out-of-the-box integrations with ticketing, chat, SIEM, SOAR, threat investigation, incident management, and GRC tools to support your security operations workflows



AWS Elastic Disaster Recovery

Fast, automated, cost-effective disaster recovery





Compliance

AWS supports security standards and compliance certifications to help you satisfy compliance requirements for virtually every regulatory agency around the globe.



AWS Artifact

No-cost, self-service portal for on-demand access to AWS compliance reports



AWS Audit Manager

Continuously audit your AWS usage to simplify how you assess risk and compliance

