



# Security on AWS

Infrastructure and Services to elevate your security  
in the cloud

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Solutions Architect, Higher Education



# Agenda – Security on AWS

- How AWS thinks about Security
- The AWS Shared Responsibility Model
- Foundational Controls
- The Well Architected Framework – The Security Pillar
  - Identity and Access Management
  - Detection
  - Infrastructure Protection
  - Data Protection
  - Incident Response

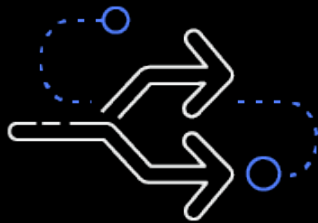
# How AWS thinks about Security



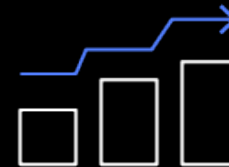
Security is the top priority



Security is everyone's responsibility



Guardrails, not gates

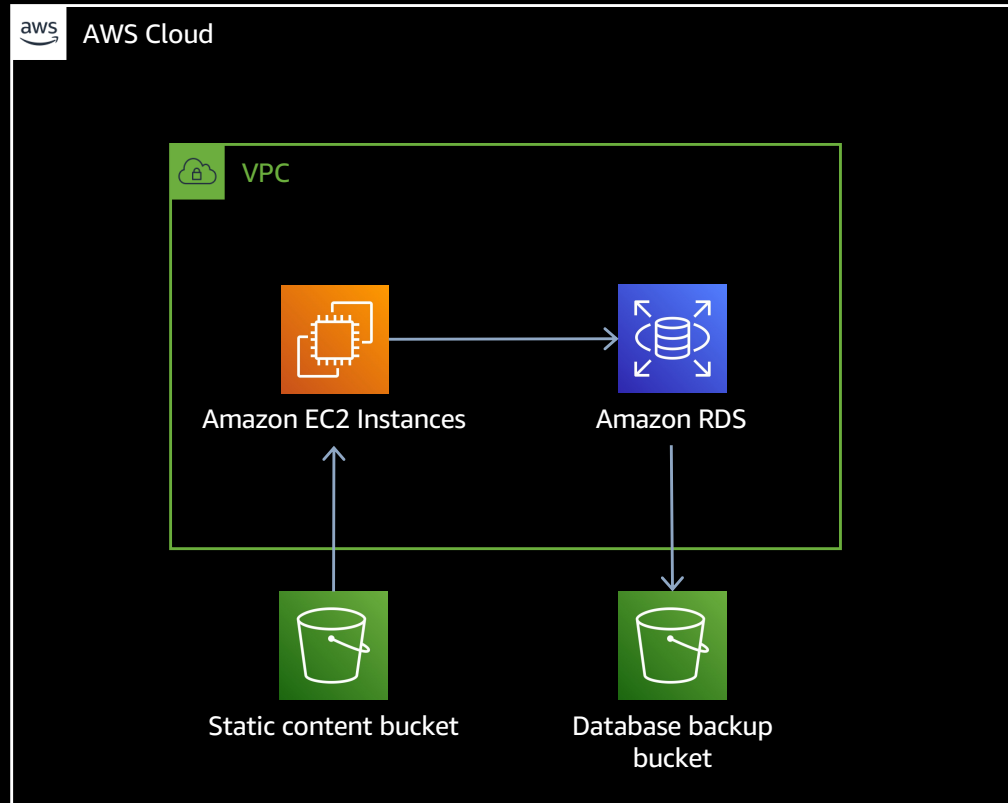


Security is a journey

# Introducing Bob

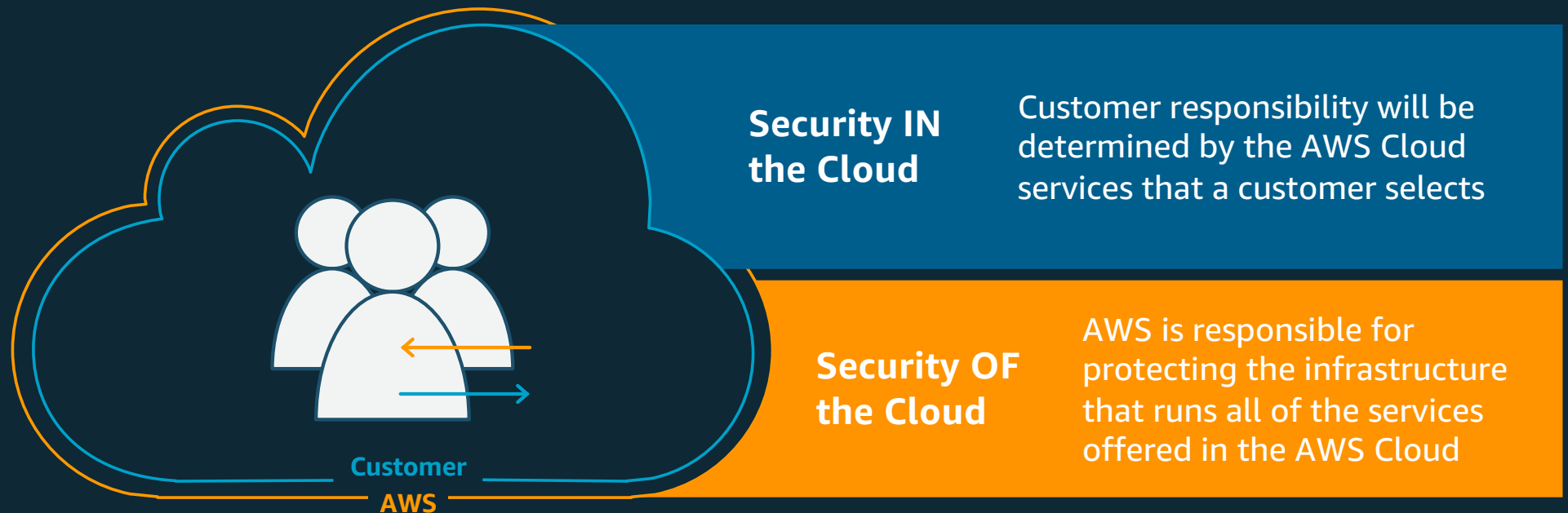


- Bob
- Chief Engineer
- Doesn't know much about Security



# The AWS Shared Responsibility Model

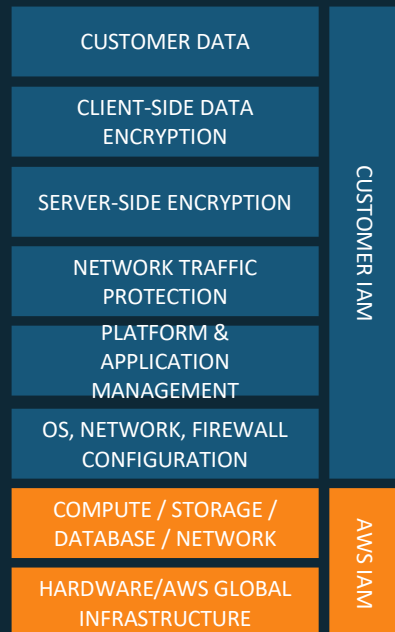
# Shared responsibility model



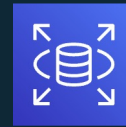
# The line **varies** ...



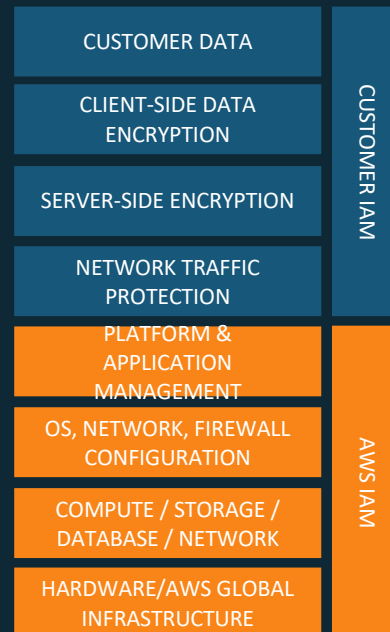
Amazon EC2



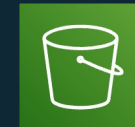
Infrastructure  
Services



Amazon RDS



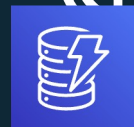
Container  
Services



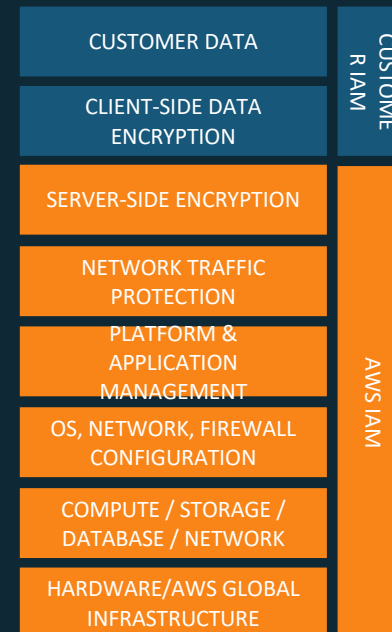
S3



Lambda



DynamoDB



Abstracted  
Services

Less customizable  
+  
Less Customer responsibility  
+  
More best practices built-in

More Customizable  
+  
More Customer responsibility

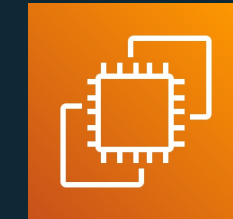
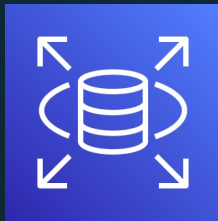
# Your AWS Account is precious



AWS Account



Sensitive  
customer data



Running  
workloads



Payment  
information

# Foundational Security controls



- Accurate account information
- Protecting your Root User
- Using IAM Users
- Configuring alarms
- Turning CloudTrail ON
- Using AWS Config
- Using Trusted Advisor

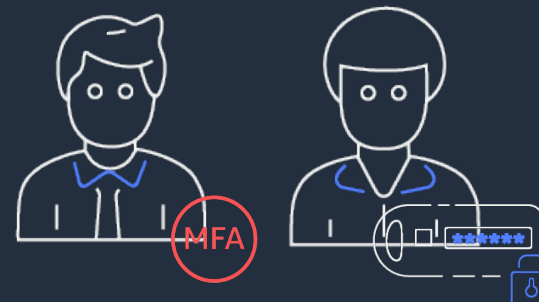
# Protect your Root User



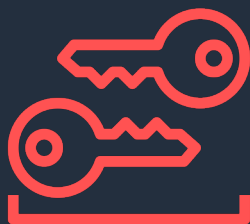
Use a complex password



Turn on MFA



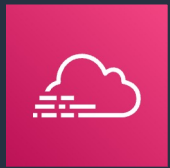
Separate password and MFA holder



Delete access keys



Set up alarms



# AWS CloudTrail



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# AWS CloudTrail – Auditing, Governance and Compliance



**Record Activity** – actions taken by user, role or AWS service

**Simplify compliance** by automatically recording and storing activity logs

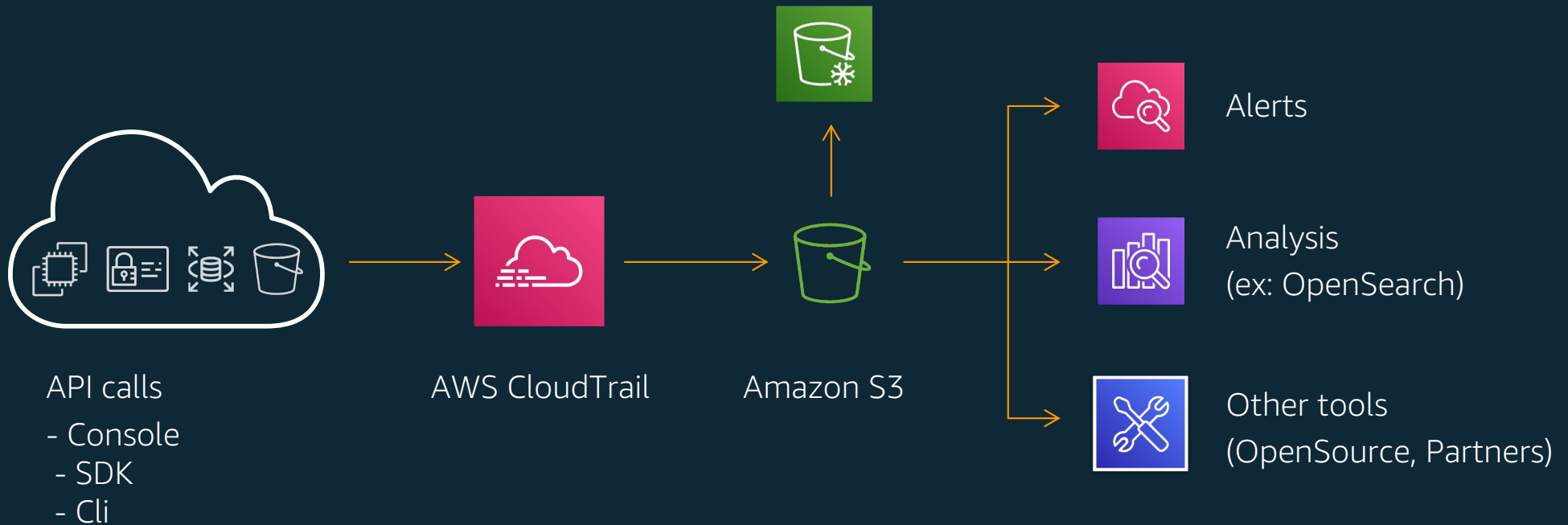
**Gain visibility** – view, search, download, analyze, respond

**Troubleshoot** – who/what took which action and when?

**Build security automation** by tracking and responding to threats

**Features** - CloudTrail Insights, CloudTrail Lake, Log Encryption, File Integrity Validation

# AWS CloudTrail: Audit of actions





# AWS Config

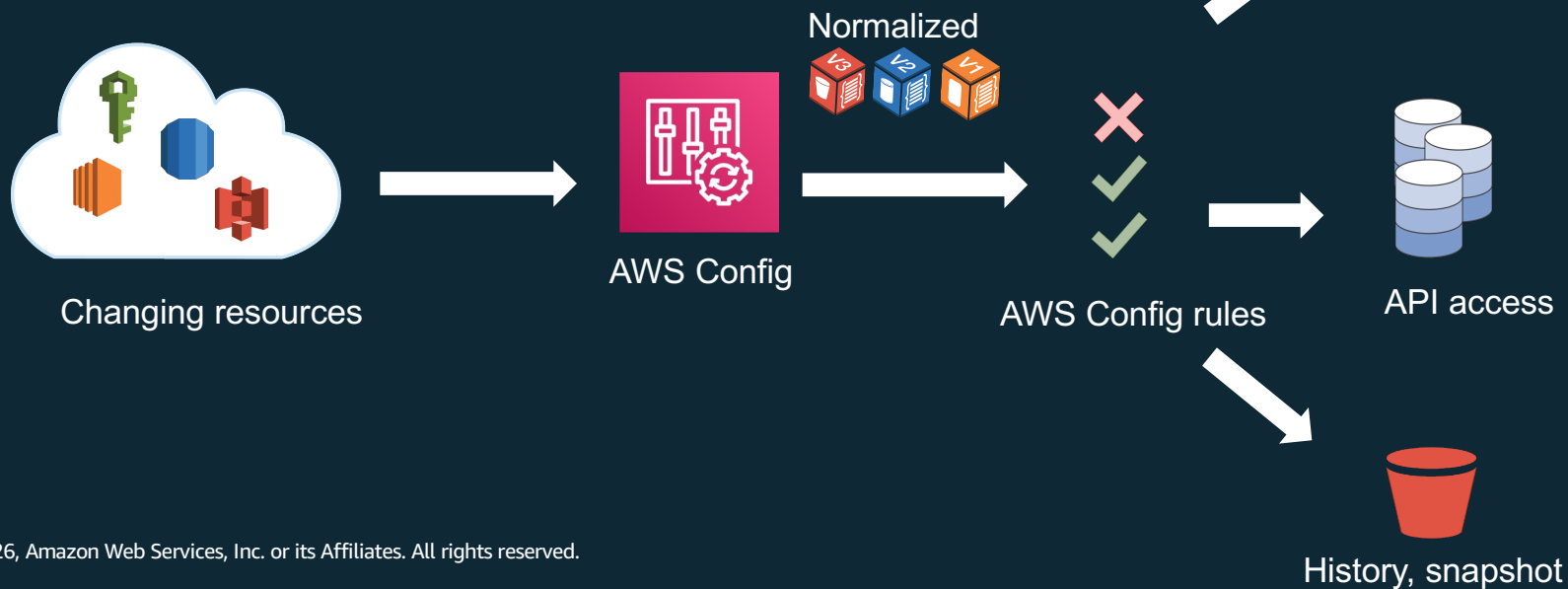
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# AWS Config



- Configuration auditor
- Monitors configuration changes over time
- Evaluates the configuration against policies defined using AWS Config rules
- Alerts you if the configuration is noncompliant with your policies





# AWS Trusted Advisor

# AWS Trusted Advisor

*LEVERAGE TRUSTED ADVISOR TO ANALYZE YOUR AWS RESOURCES FOR BEST PRACTICES FOR AVAILABILITY, COST, PERFORMANCE AND SECURITY.*

Trusted Advisor

Recommendations

Cost optimization

Performance

Security

Fault tolerance

Service limits

▼ Preferences

Manage Trusted Advisor

Notifications

Checks summary

9

Action recommended

Info

22

Investigation recommended

Info

9

Security

0

Checks with excluded items

Info

Security checks

Filter by tag key

Learn more about using tags

Tag Key

Tag Value

Reset

Apply filter

Search by keyword

Info

Source

View

Filter checks

All sources

All checks

< 1 2 3 4 5 6 7 ... 14 >

▶

✖

Amazon ECS Containers should only have read-only access to its root filesystems

Last updated: an hour ago

🔄

🔖

Checks if ECS Containers are limited to read-only access to its mounted root filesystems.

2 of 2 resources failed this Security Hub control.

▶

✖

Amazon ECS task definitions should have secure networking modes and user definitions.

Last updated: an hour ago

🔄

🔖

Checks if an Amazon ECS Task Definition with host networking mode has "privileged" or "user" container definitions.

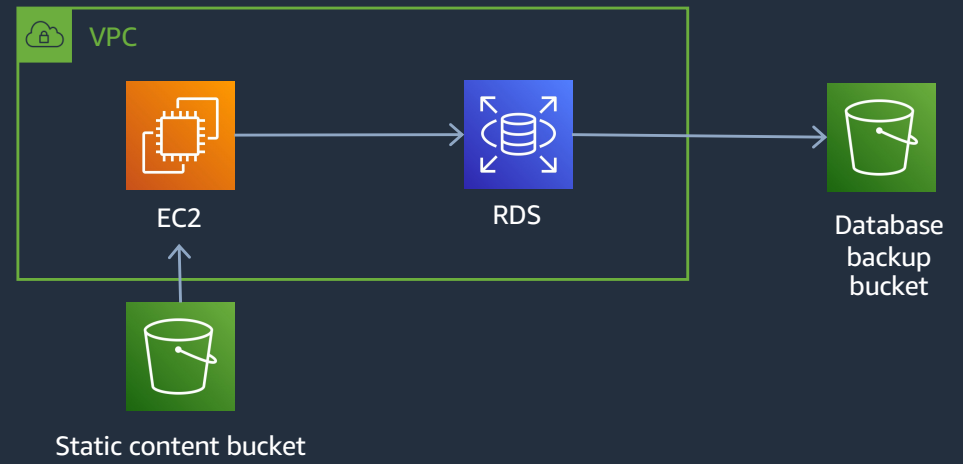
2 of 2 resources failed this Security Hub control.

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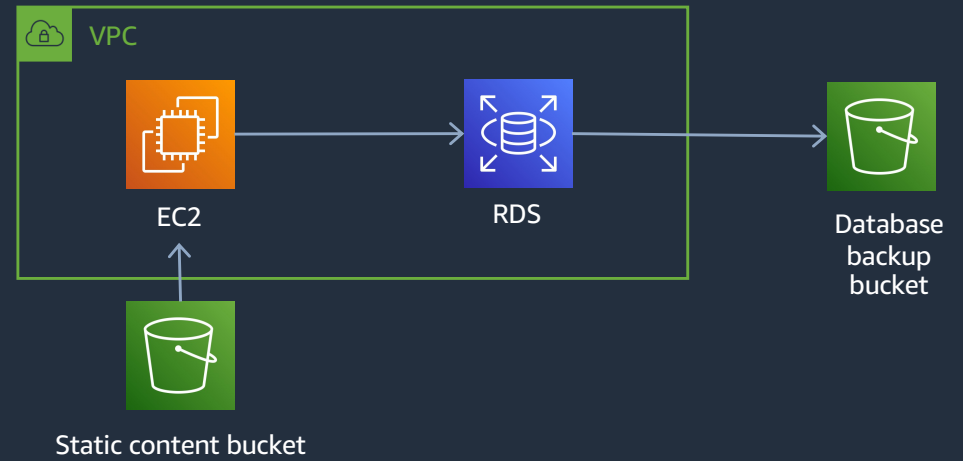
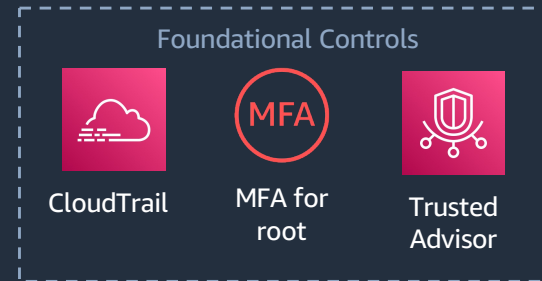


Bob





Bob



# The AWS Well Architected Framework

# AWS W-A Security Pillar



**Identity and access  
management**



**Detective  
controls**



**Infrastructure  
protection**



**Data  
protection**



**Incident  
response**

# 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



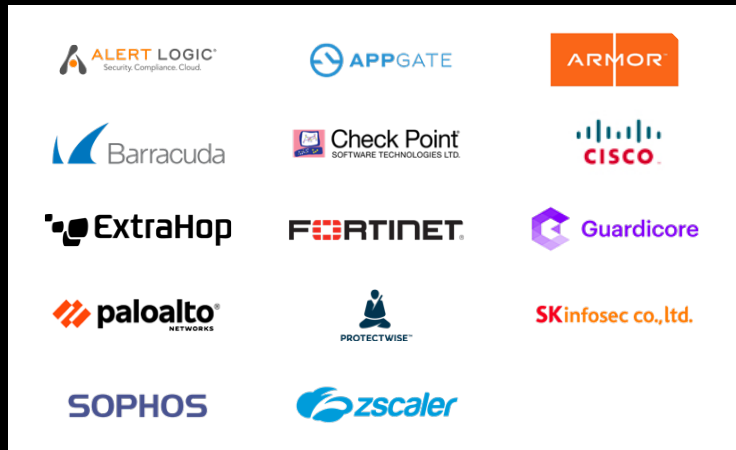
## Compliance

AWS Artifact

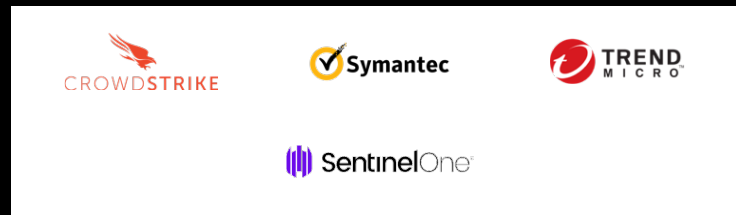
AWS Audit Manager

# Large community of security partners & solutions

## Network and infrastructure security



## Host and endpoint security



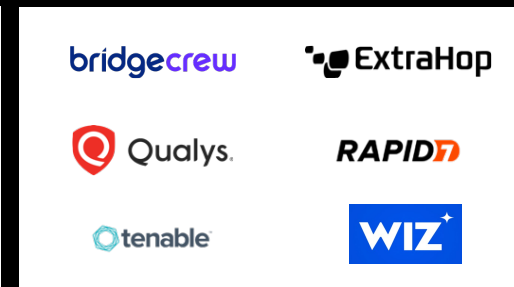
## Identity and access control



## Application security



## Vulnerability and configuration analysis



## Data protection and encryption



## Logging, monitoring, SIEM, threat detection, and analytics



# Consulting and technology competency partners

## Security engineering



## Governance, risk, and compliance



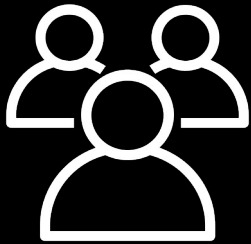
## Security operations and automation



# Identity and Access Management

# Who can access what

Who



**Developers and  
applications**

can access



**Permissions**

what



**Resources**

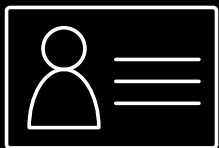


**Policy  
Authorization**



**Policy  
Guardrails**

**Goal: Least privileged access**



## 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

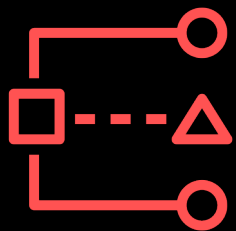
Simple, secure service for sharing AWS resources

### Amazon Verified Permissions

Fine-grained permissions and authorization for your applications

# IAM Access Analyzer - Generate Policies based on Access Activity

IAM Access Analyzer reviews your AWS CloudTrail logs and generates a policy template that contains the permissions that have been used by the entity in your specified time frame.



IAM Access  
Analyzer

Analyses



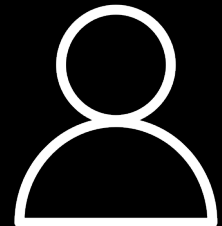
AWS  
CloudTrail  
Trail

Generates



Scoped-  
down policy

Retrieves for



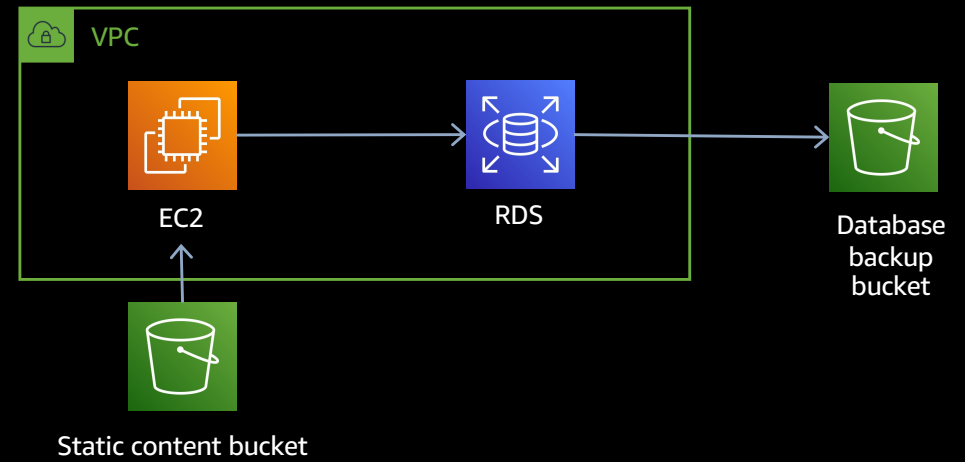
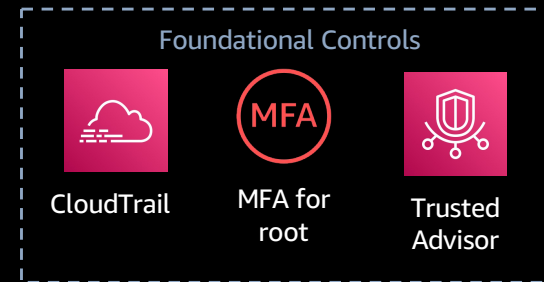
Further  
customization



Bob



AWS Cloud

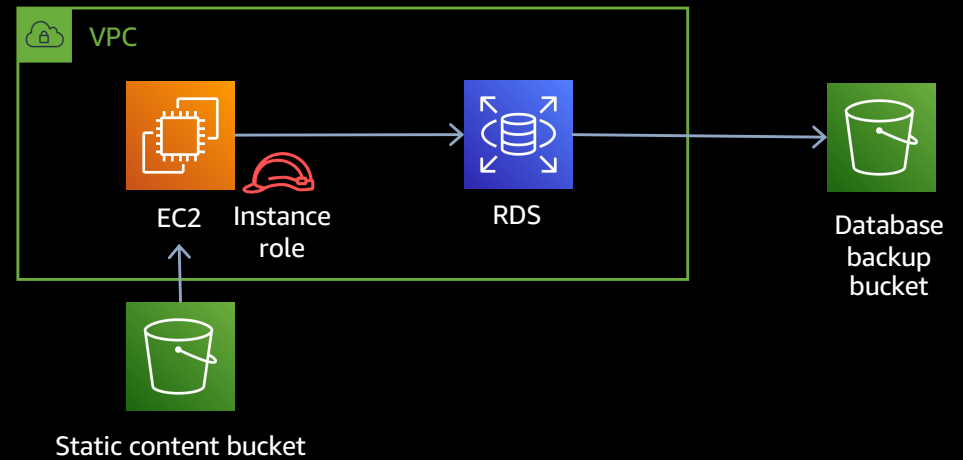
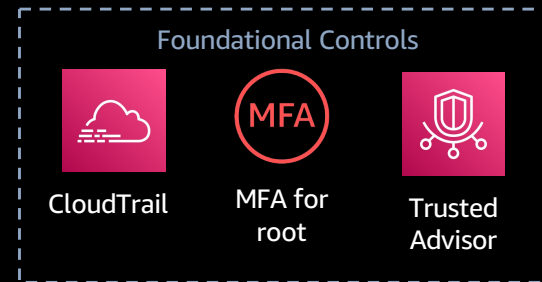
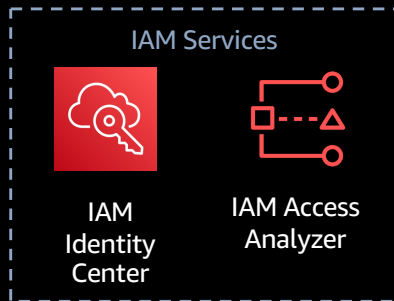




Bob



AWS Cloud



# Detection



## 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.





# Amazon GuardDuty

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# What is Amazon GuardDuty?



Amazon GuardDuty is a threat detection service that continuously monitors for malicious activity and unauthorized behavior to protect your AWS accounts and workloads.

Threat detection using two methods:

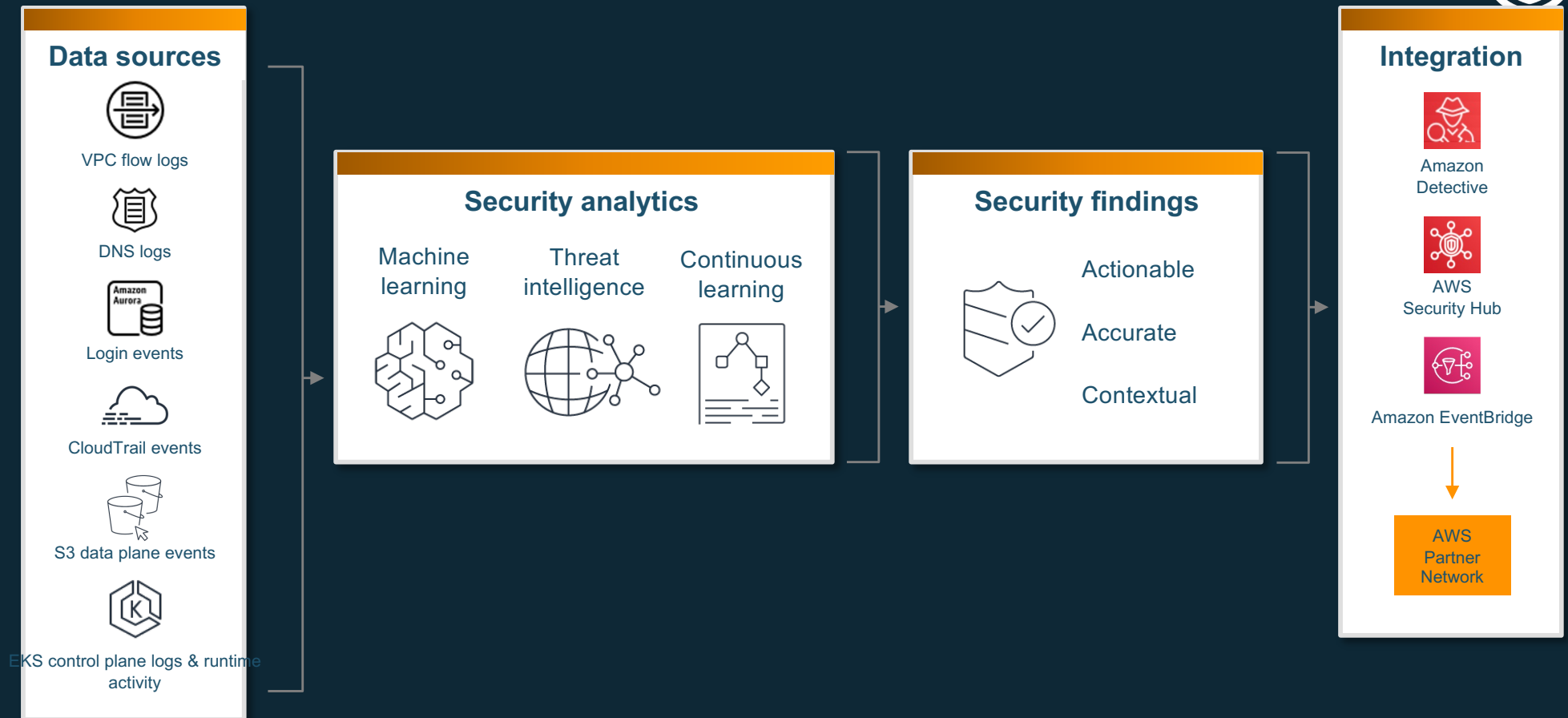


Threat Intelligence



Machine Learning

# How GuardDuty works



# Threat Detection — Amazon GuardDuty



GuardDuty

Findings

Usage

Malware scans

Settings

Lists

S3 Protection

Kubernetes Protection

Malware Protection New!

Accounts

What's New

Partners

GuardDuty > Findings

Showing 125 of 125 16 44 65

Findings Info

Supress Findings Info

Saved rules No saved rules

Current Add filter criteria

|                          | Finding type                     | Resource                                   | L       | Col |
|--------------------------|----------------------------------|--------------------------------------------|---------|-----|
| <input type="checkbox"/> | Execution:ECS/MaliciousFile      | ECSCluster: <a href="#">guardduty-test</a> | an h... | 1   |
| <input type="checkbox"/> | Execution:EC2/MaliciousFile      | Instance: <a href="#">i-06b995acdf73a1</a> | an h... | 1   |
| <input type="checkbox"/> | UnauthorizedAccess:EC2/RDPBr...  | Instance: <a href="#">i-05d0af23c553c</a>  | an h... | 2   |
| <input type="checkbox"/> | UnauthorizedAccess:EC2/RDPBr...  | Instance: <a href="#">i-06b995acdf73a1</a> | an h... | 2   |
| <input type="checkbox"/> | Trojan:EC2/DNSDataExfiltration   | Instance: <a href="#">i-06b995acdf73a1</a> | an h... | 1   |
| <input type="checkbox"/> | UnauthorizedAccess:EC2/SSHBr...  | Instance: <a href="#">i-0e655ee1021d4</a>  | an h... | 1   |
| <input type="checkbox"/> | UnauthorizedAccess:EC2/SSHBr...  | Instance: <a href="#">i-06b995acdf73a1</a> | an h... | 1   |
| <input type="checkbox"/> | Recon:EC2/Portscan               | Instance: <a href="#">i-06b995acdf73a1</a> | an h... | 1   |
| <input type="checkbox"/> | UnauthorizedAccess:EC2/TorClient | Instance: <a href="#">i-024644bb1f3c0</a>  | 9 ho... | 166 |

UnauthorizedAccess:EC2/R... Info Feedback

Finding ID: [4cc17d4b0b482e47f1516e83a7fee887](#)

High i-06b995acdf73a8bd3 is performing RDP brute force attacks against 172.16.0.23. Brute force attacks are used to gain unauthorized access to your instance by guessing the RDP password. Info

Investigate with Detective

Overview

|             |                                     |                   |
|-------------|-------------------------------------|-------------------|
| Severity    | HIGH                                | <span>Info</span> |
| Region      | us-east-1                           |                   |
| Count       | 2                                   |                   |
| Account ID  | 078230413857                        | <span>Info</span> |
| Resource ID | <a href="#">i-06b995acdf73a8bd3</a> |                   |
| Created at  | 09-01-2022 16:45:16 (a...           |                   |
| Updated at  | 09-01-2022 16:48:13 (a...           |                   |

Malware scan

|             |                                   |                   |
|-------------|-----------------------------------|-------------------|
| Scan ID     | <a href="#">131d7e26f8452a...</a> | <span>Info</span> |
| Scan status | COMPLETED                         |                   |



# Amazon Inspector

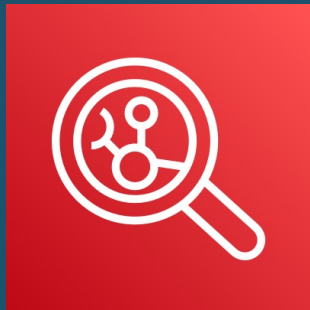


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# Amazon Inspector

AUTOMATED AND CONTINUAL VULNERABILITY MANAGEMENT AT SCALE



**Amazon Inspector** is an automated vulnerability management service that continually scans AWS workloads for software vulnerabilities and unintended network exposure.

AMAZON ELASTIC COMPUTE CLOUD (EC2)

CONTAINER IMAGES RESIDING IN AMAZON ELASTIC  
CONTAINER REGISTRY (AMAZON ECR)

AWS LAMBDA FUNCTIONS

# CVE finding example



**Finding** Instance `i-0fd51405cc6151ae1` is vulnerable to `CVE-2017-16650`

Vulnerability

**Severity** High ⓘ

**Description** The `qmi_wwan_bind` function in `drivers/net/usb/qmi_wwan.c` in the Linux kernel through 4.13.11 allows local users to cause a denial of service (divide-by-zero error and system crash) or possibly have unspecified other impact via a crafted USB device.

Impact

**Recommendation** Use your Operating System's update feature to update package `kernel-0:4.4.41-36.55.amzn1`, `kernel-tools-0:4.4.41-36.55.amzn1`. For more information see <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-16650>

Remediation

# Inspector – Checks for Network Exposure



Amazon Inspector analyzes AWS network configuration to find what is reachable?

List of resources analyzed:

- Security Groups
- VPCs
- Network interfaces
- Subnets
- Network ACLs
- Route tables
- Elastic load balancers
- Application load balancers
- Internet gateways
- Virtual private gateways
- Direct Connect
- VPC peering connections



# AWS Security Hub

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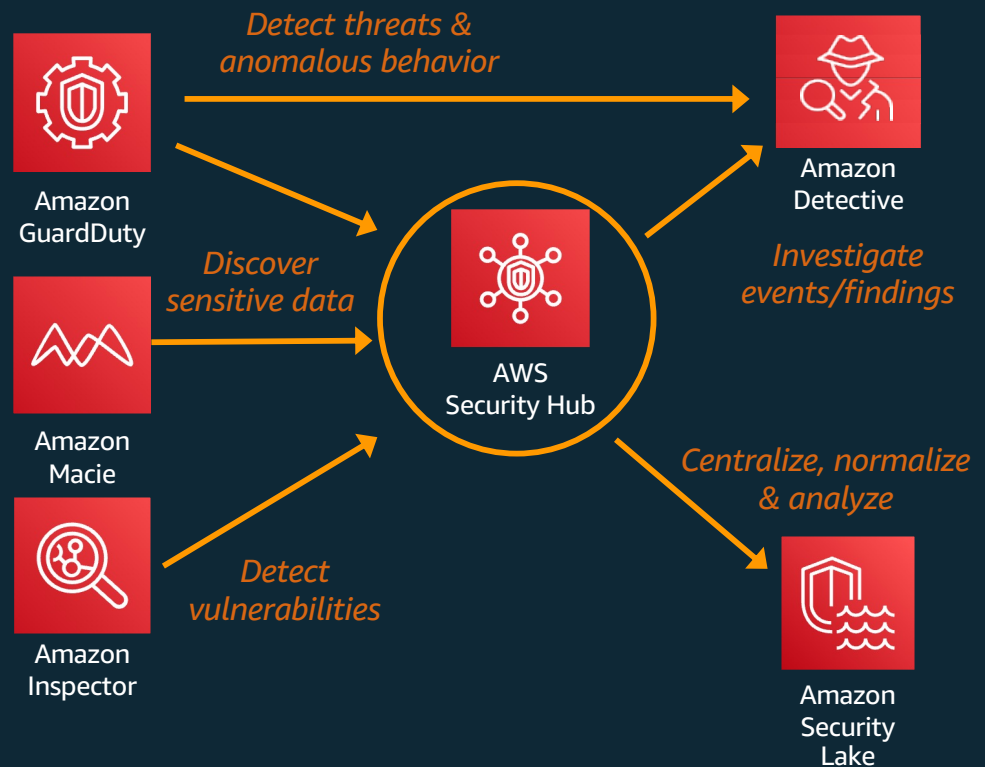
# Threat detection, monitoring, and response



## Security Monitoring and Threat Detection



Integrated with AWS Workloads in an AWS Account, along with identities and network activity



# Automated compliance checks



## CIS AWS Foundations



by AWS

### Description

The Center for Internet Security (CIS) AWS Foundations Benchmark is a set of security configuration best practices for AWS.

Compliance readiness



Resources failing

42 (44%)

Disable

View findings

## New PCI DSS

by AWS

### Description

The Payment Card Industry Data Security Standard is an information security standard for organizations that handle credit cards. The PCI Standard is administered by the Payment Card Industry Security Standards Council.

Enable

## Identity and Access Management (IAM)



by AWS Security Best Practices

### Description

Identity and access management are key parts of an information security program, ensuring that only authorized and authenticated users are able to access your resources, and only in a manner that you intend.

Compliance readiness



Resources failing

88 (92%)

Disable

View findings

## Detective controls



by AWS Security Best Practices

### Description

You can use detective controls to identify a potential security threat or incident. They are an essential part of governance frameworks and can be used to support a quality process, a legal or compliance obligation, and for threat identification and response efforts.

Compliance readiness



Resources failing

14 (15%)

Disable

View findings

## Infrastructure protection



by AWS Security Best Practices

### Description

Infrastructure protection encompasses control methodologies, such as defense in depth, necessary to meet best practices and organizational or regulatory obligations.

Compliance readiness



Resources failing

61 (64%)

Disable

View findings

## Data protection



by AWS Security Best Practices

### Description

Foundational practices that influence security should be in place. For example, data classification provides a way to categorize organizational data based on levels of sensitivity, and encryption protects data by way of rendering it unintelligible to unauthorized access.

Compliance readiness



Resources failing

14 (15%)

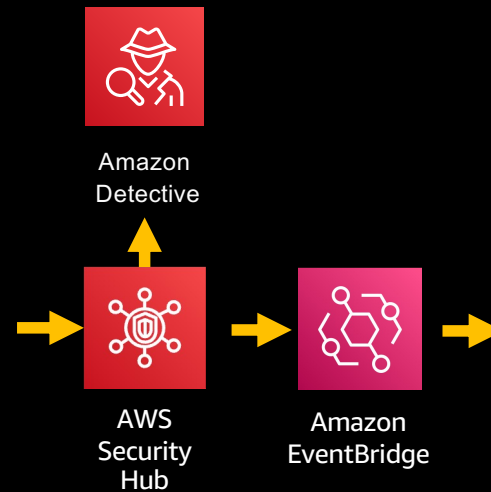
Disable

View findings

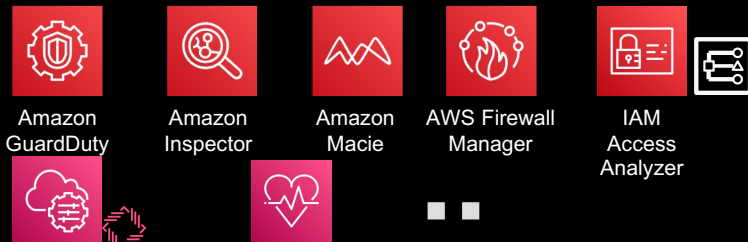
# AWS Security Hub: Partners



## Partners submitting findings



## Partners taking action



AWS Systems Manager Patch Manager  
AWS Personal Health Dashboard  
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# Amazon Detective



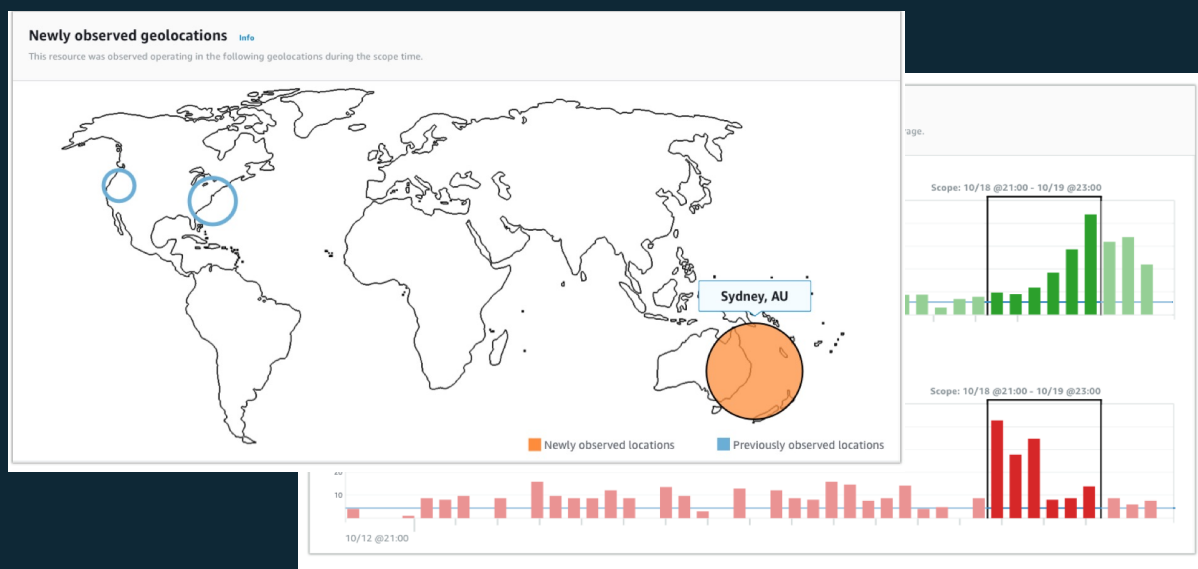
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# Amazon Detective

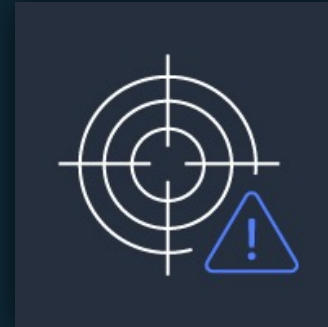


Analyze and visualize security data to rapidly get to the root cause of potential security issues





# Investigation example



# Amazon Detective - Investigations



## Newly observed geolocations [Info](#)

This resource was observed operating in the following geolocations during the scope time.



Abnormal activity in Sydney region

# Amazon Detective - Investigations



## Overall API call volume [Info](#)

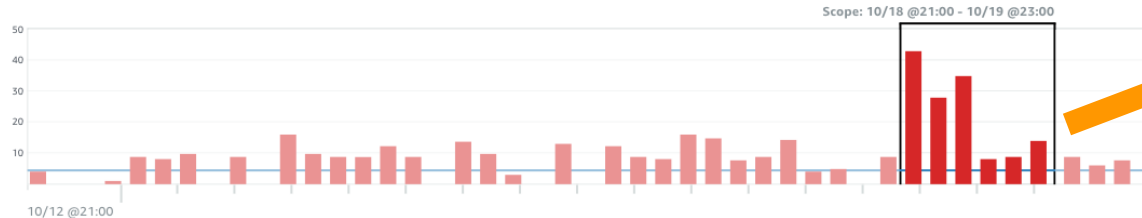
Displays the overall API call volume issued by this resource around the scope time, as it compares with the 45 day active baseline average.

### Successful API calls 63.26% of scope time volume



Successful calls  
ramping up

### Failed API calls 36.74% of scope time volume



Failed calls  
spiking and then  
falling

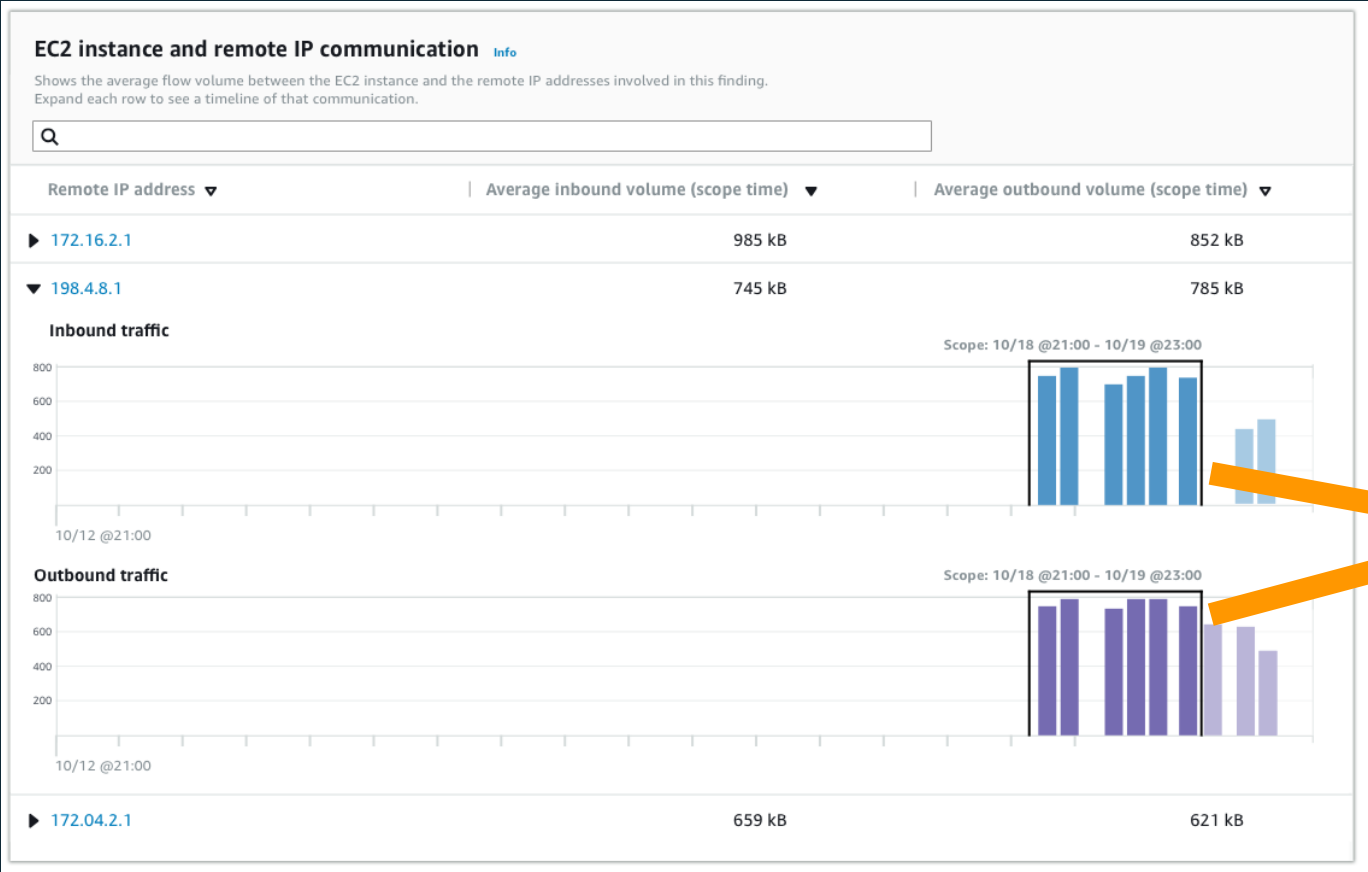
# Amazon Detective - Investigations



| Overview: AWS role   New behavior: AWS user   <b>Overview: AWS account</b>   New behavior: AWS account  |                        |                        |          |
|---------------------------------------------------------------------------------------------------------|------------------------|------------------------|----------|
| <b>Associated findings</b> <a href="#">Info</a>                                                         |                        |                        |          |
| The following findings occurred on this resource around the scope time.                                 |                        |                        |          |
| <input type="text"/>                                                                                    |                        |                        |          |
| Name                                                                                                    | First time observed    | Last time observed     | Severity |
| <b>i-12a34567a89aaa0a1 is communicating outbound with a known Bitcoin-related IP address 198.4.8.1.</b> | 2018/10/18 @ 16:00 UTC | 2018/10/18 @ 16:00 UTC | 50       |
| Reconnaissance API ListMembers was invoked from a Tor exit node.                                        | 2018/10/18 @ 13:00 UTC | 2018/10/18 @ 17:00 UTC | 40       |
| i-12a34567a89aaa0a1 is communicating outbound with a known Bitcoin-related IP address 198.4.8.1.        | 2018/10/18 @ 14:00 UTC | 2018/10/20 @ 12:00 UTC | 50       |
| Reconnaissance API ListAttachedGroupPolicies was invoked from a Tor exit node.                          | 2018/10/19 @ 17:00 UTC | 2018/10/19 @ 23:00 UTC | 50       |
| i-12a34567a89aaa0a1 is communicating outbound with a known Bitcoin-related IP address 172.04.2.1.       | 2018/10/20 @ 14:00 UTC | 2018/10/20 @ 18:00 UTC | 50       |
| Reconnaissance API DescribeOrganization was invoked from a Tor exit node.                               | 2018/10/20 @ 23:00 UTC | 2018/10/21 @ 02:00 UTC | 50       |

Finding indicating  
crypto-mining  
activity

# Amazon Detective - Investigations



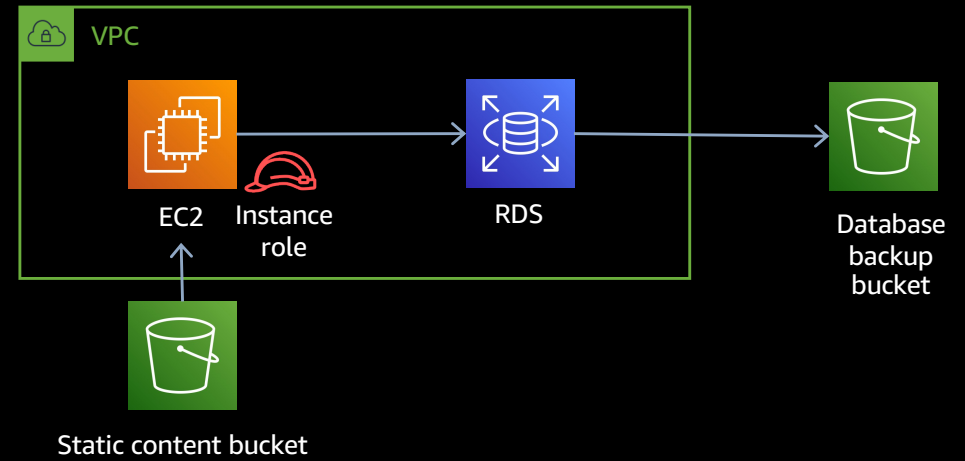
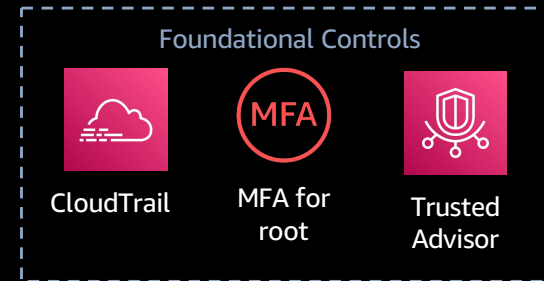
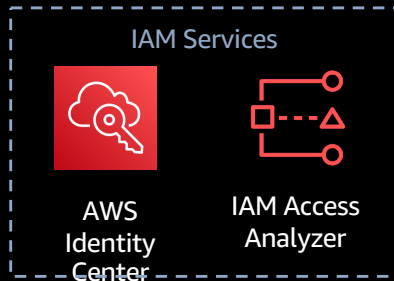
Traffic to Bitcoin-related IPs



Bob



AWS Cloud

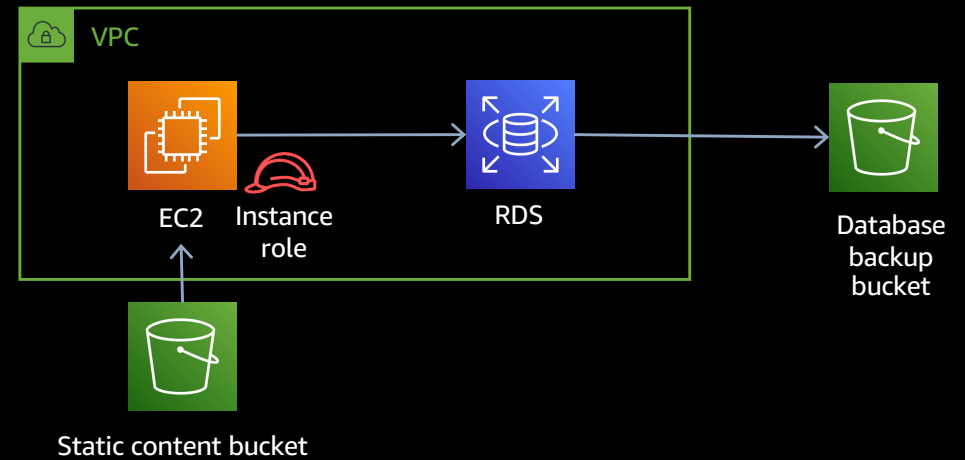




Bob



AWS Cloud



# Infrastructure Security



## 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 (Web Access Firewall)

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

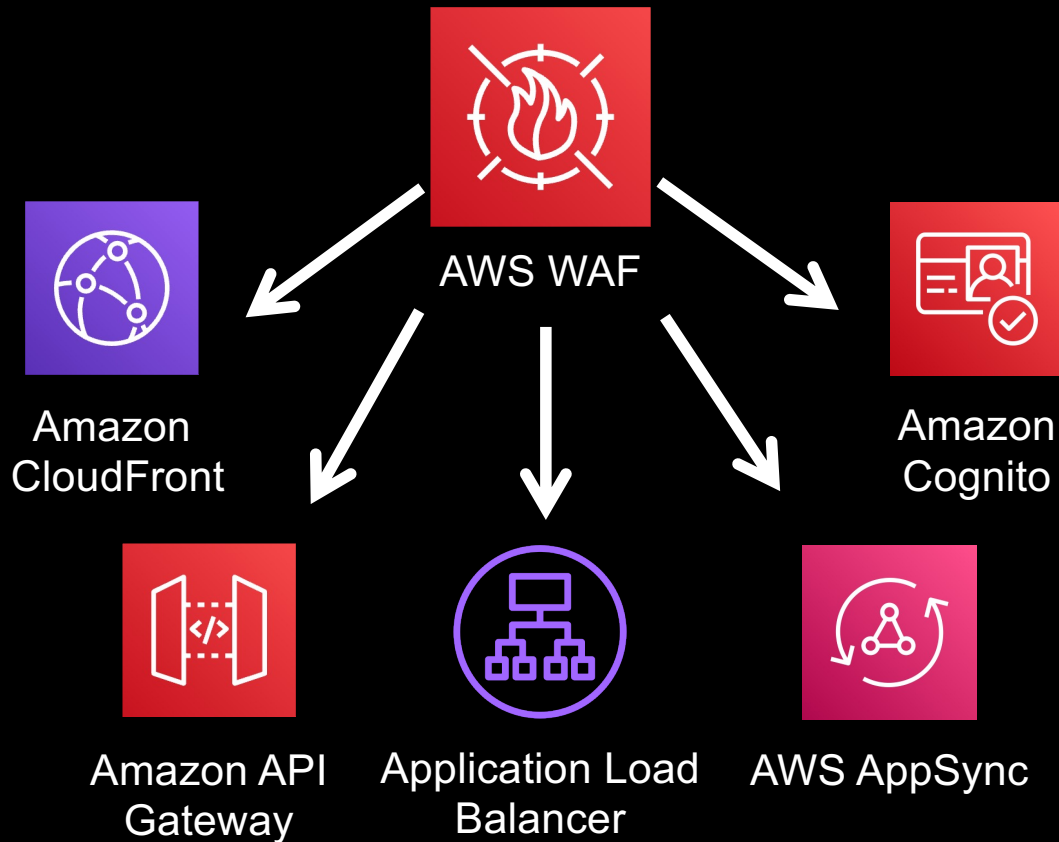
Gain operational insights into AWS and on-premises resources.

### AWS Verified Access

Provide secure access to corporate applications without a VPN.



# AWS WAF - Layer 7 Protection



- Managed, Elastic, and **Integrated WAF**
- Pay-as-you-go
- Rules Managed by AWS + Custom Rules.  
+ Provided by partners



# DDoS protection with AWS Shield

## Standard



*Available to all AWS customers at no additional cost*

- Protection against the most common attacks (SYN/UDP Floods, Reflection Attacks, etc. Layer 3/4)
- Automatic detection and mitigation

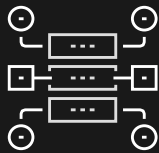
## Advanced



*Paid service that provides additional protection against sophisticated attacks*

- + Protection against advanced attacks (Layer 7)
- + 24x7 DDoS Response Team (Proactive/Reactive)
- + Cost protection
- + Faster Mitigation/Better Visualization
- + Includes WAF and Firewall Manager

# AWS Network Firewall: Native Firewall



Automatically scale,  
managed AWS  
infrastructure



Highly flexible, high-  
capacity rule engine  
with managed IPS  
rules



Centrally manage  
policies, real-time  
monitoring

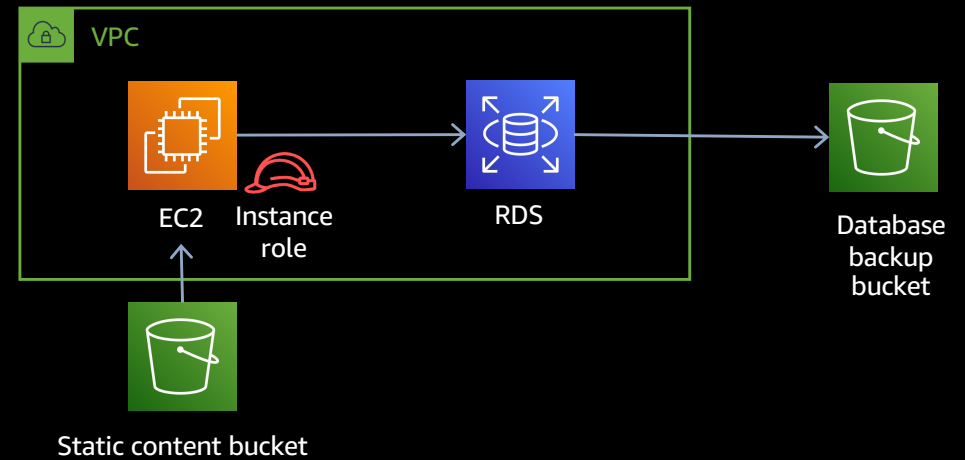
There are no upfront commitments and you only pay for what  
you use



Bob

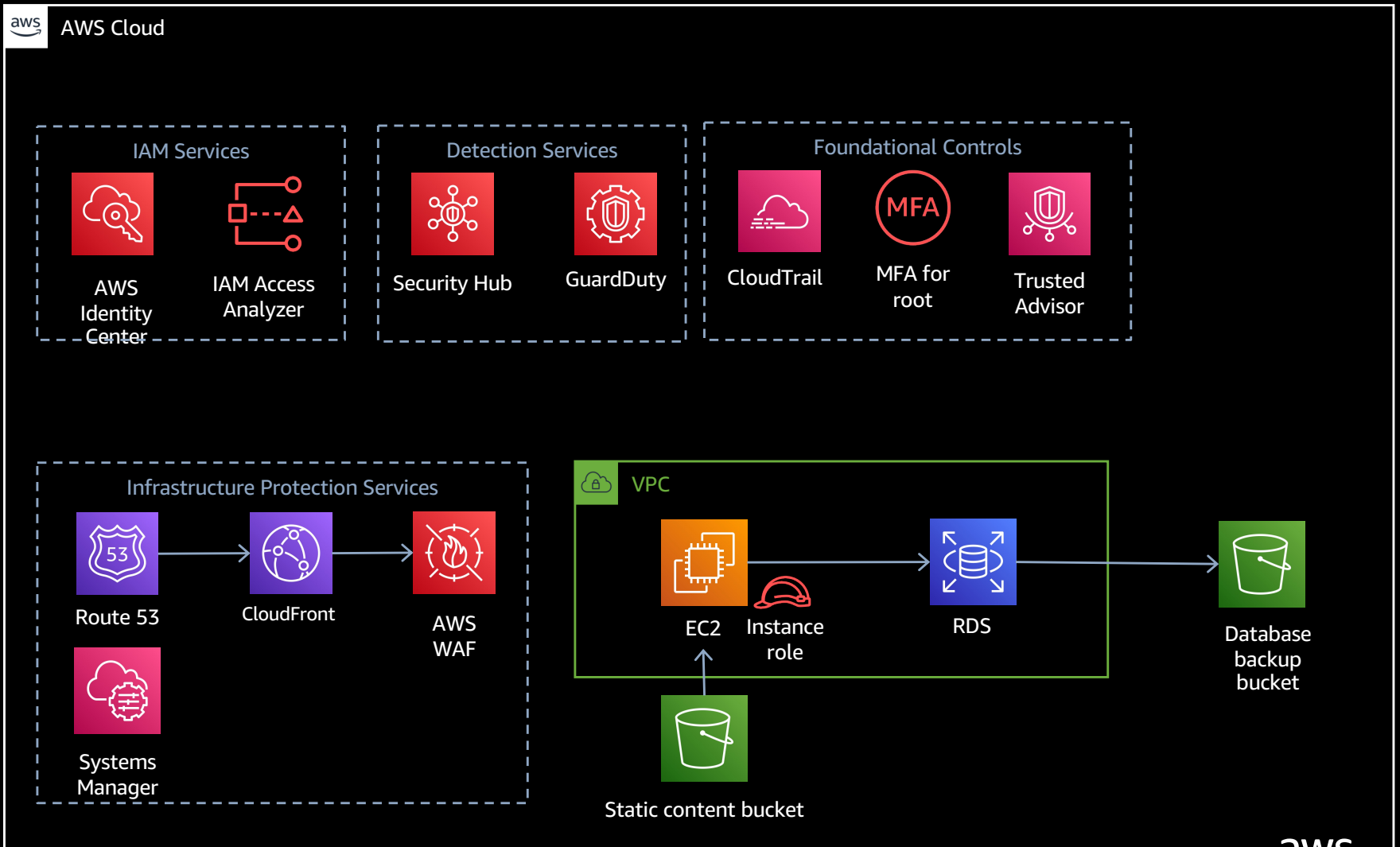


AWS Cloud





Bob



# Data protection



## 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.





# Amazon Macie

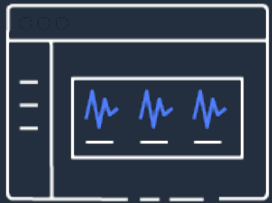


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# Amazon Macie

- *Discover and protect your sensitive data at scale*



Gain  
visibility and  
evaluate

- Bucket inventory
- Bucket policies



Discover  
sensitive data

- Inspection jobs
- Flexible scope



Centrally manage  
at scale

- AWS Organizations
- Managed & custom data detections



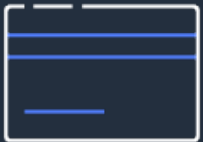
Automate and  
take actions

- Detailed findings
- Management APIs



# Amazon Macie – Data Identifiers

- Fully managed sensitive data types
- Amazon Macie maintains a growing list of sensitive data types that include common personally identifiable information (PII) and other sensitive data types as defined by data privacy regulations, such as GDPR, PCI-DSS, CCPA and HIPAA.



## *Data identifiers*

- *Financial (card, bank account numbers...)*
- *Personal (names, address, contact...)*
- *National (passport, ID, driver license...)*
- *Medical (healthcare, drug agency ...)*
- *Credentials & secrets (AWS secret keys, private keys ...)*
- *Custom – regex, keywords*
- *Allow Lists*

# Amazon Macie – Supported File Formats

- Supported file and storage formats in Amazon Macie
- When Amazon Macie analyzes data in an S3 bucket, it performs a deep inspection that factors the file or storage format for the data. Macie can analyze and detect sensitive data in many different formats, including commonly used compression and archive formats.



## *File and storage formats*

*Big Data - Apache Avro object containers and Apache Parquet files*

*Compression or archive - .gz, .gzip, .tar, .zip*

*Document - .doc, .docx, .pdf, .xls, .xlsx*

*Text - .csv, .htm, .html, .json, .tsv, .txt, .xml, and others (depending on the type of non-binary text file)*

# Amazon Macie – Summary Dashboard

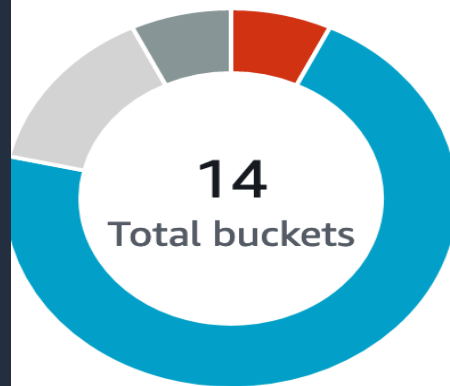
## Automated discovery [Info](#)

Last updated: July 30, 2023, 11:59:48 (UTC-04:00)

Total accounts  
**5**

Storage (classifiable/total)  
**13.9 GB / 13.9 GB**

Objects (classifiable/total)  
**14.5 m / 14.5 m**



- Sensitive
- Not sensitive
- Not yet analyzed
- Classification error

Sensitive

1

Publicly accessible

0

Not sensitive

10

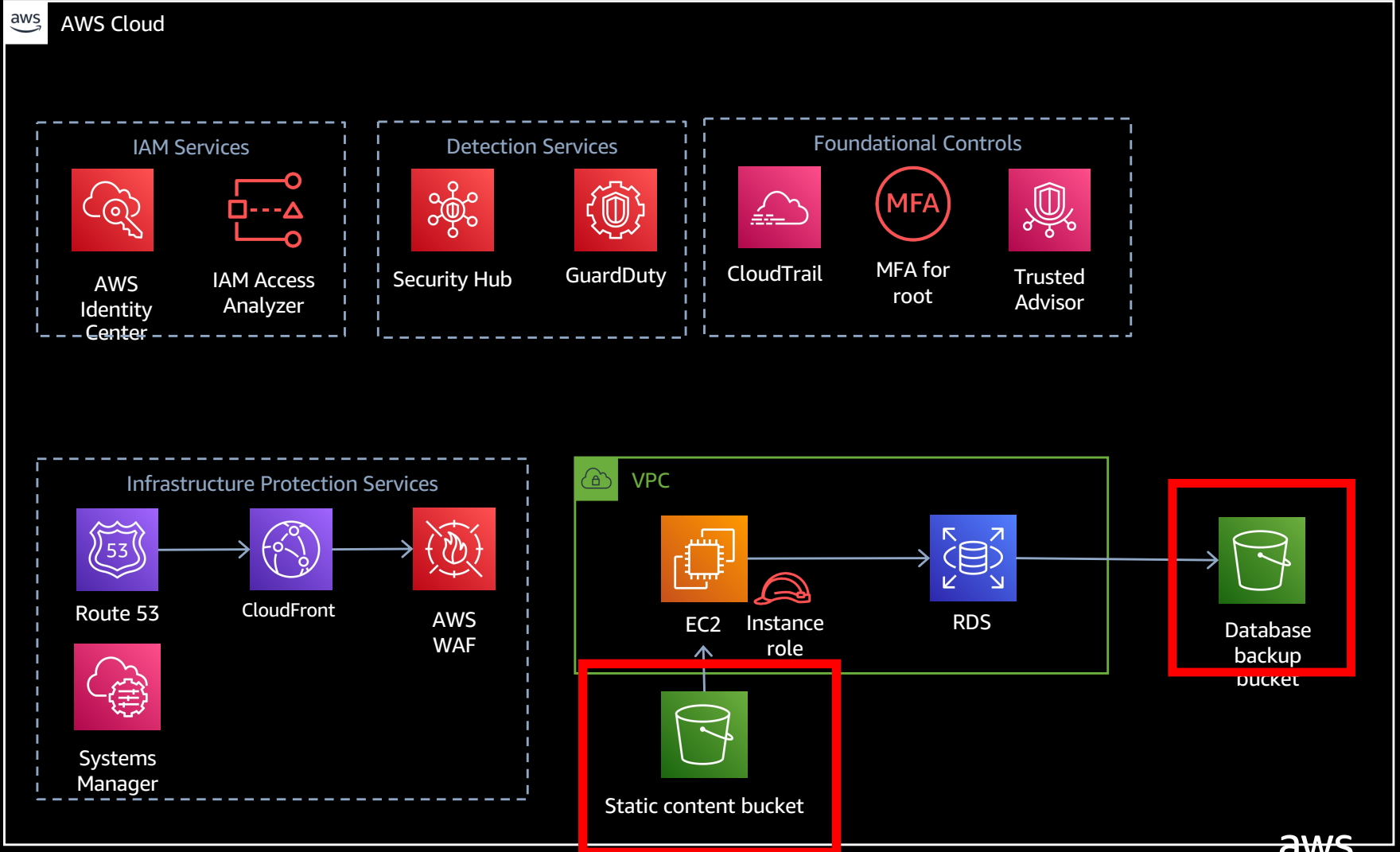
Publicly accessible

0



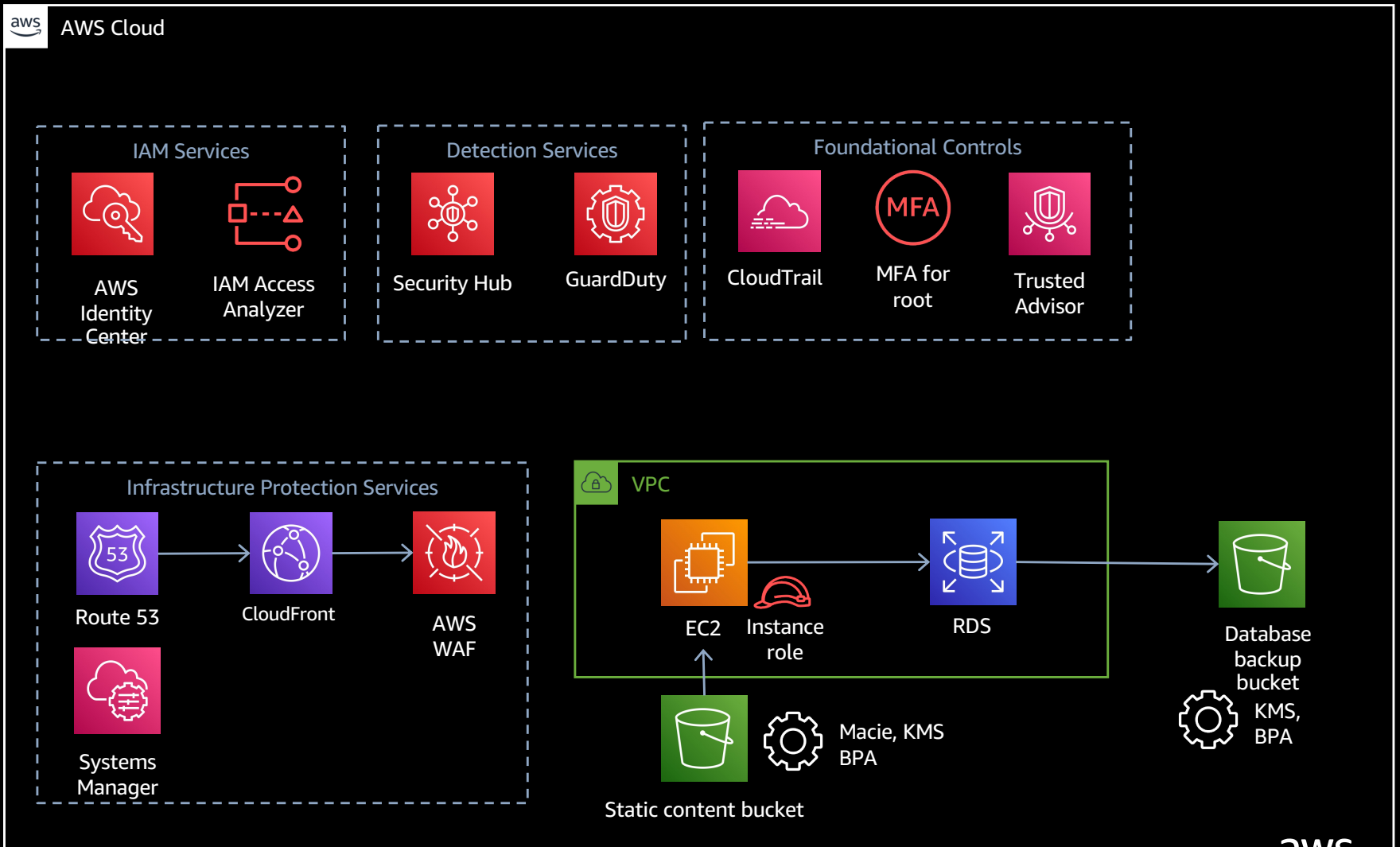


Bob





Bob



# Incident Response



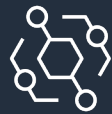
## Incident response

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 event-driven 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



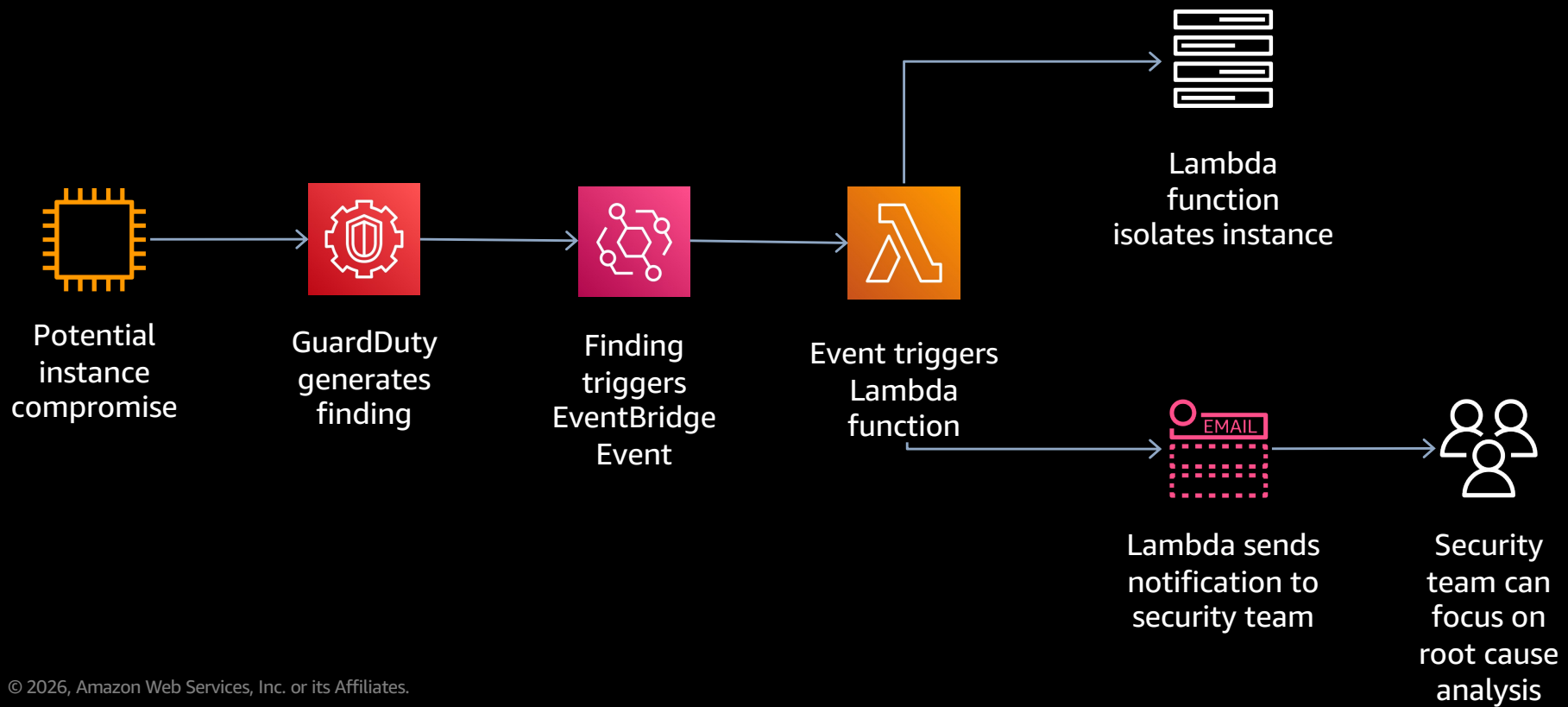
### AWS Elastic Disaster Recovery

Fast, automated, cost-effective disaster recovery

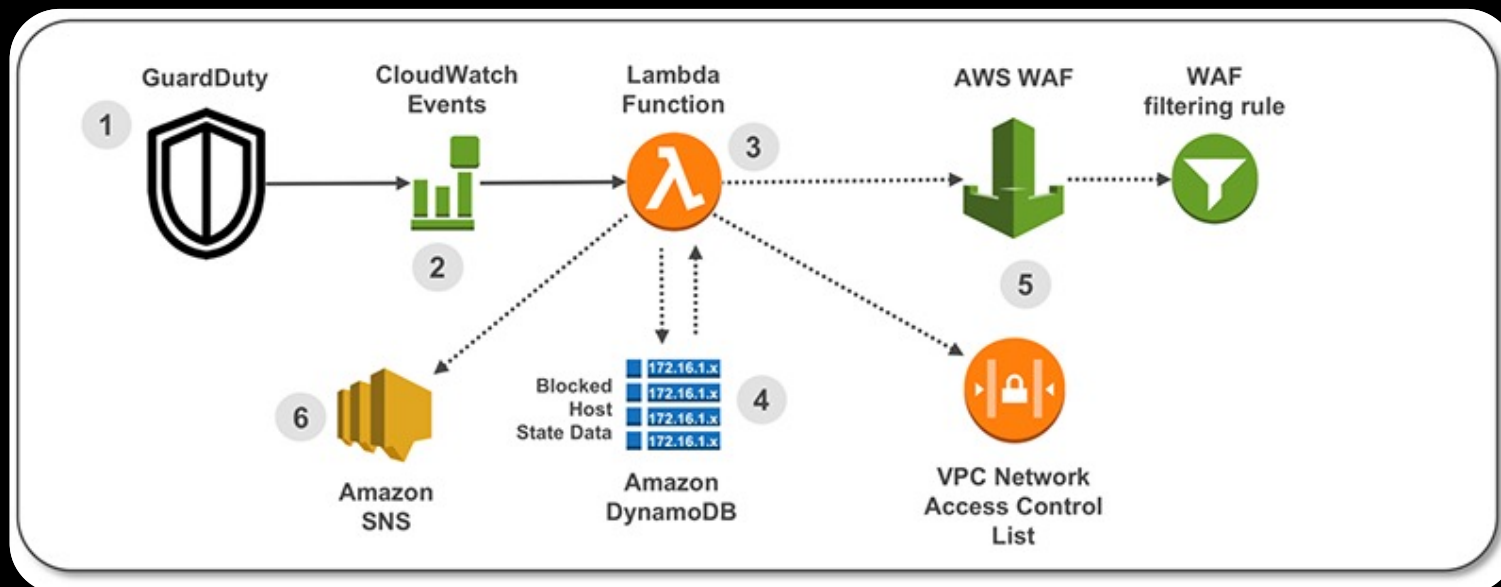


# Automated Incident Response – simple example

## Automated process

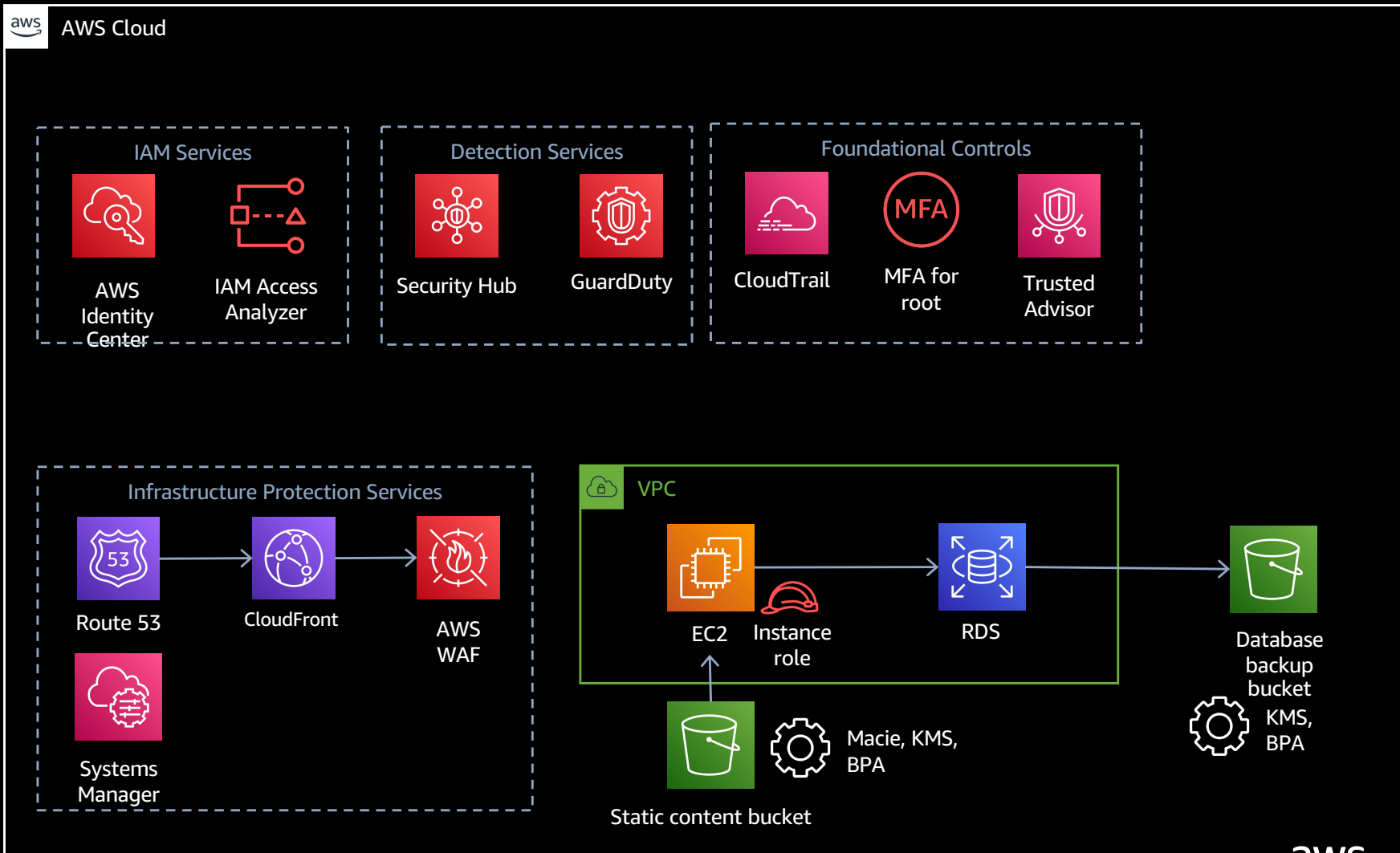


# Automatic block of suspicious hosts using Amazon GuardDuty and AWS WAF.





Bob





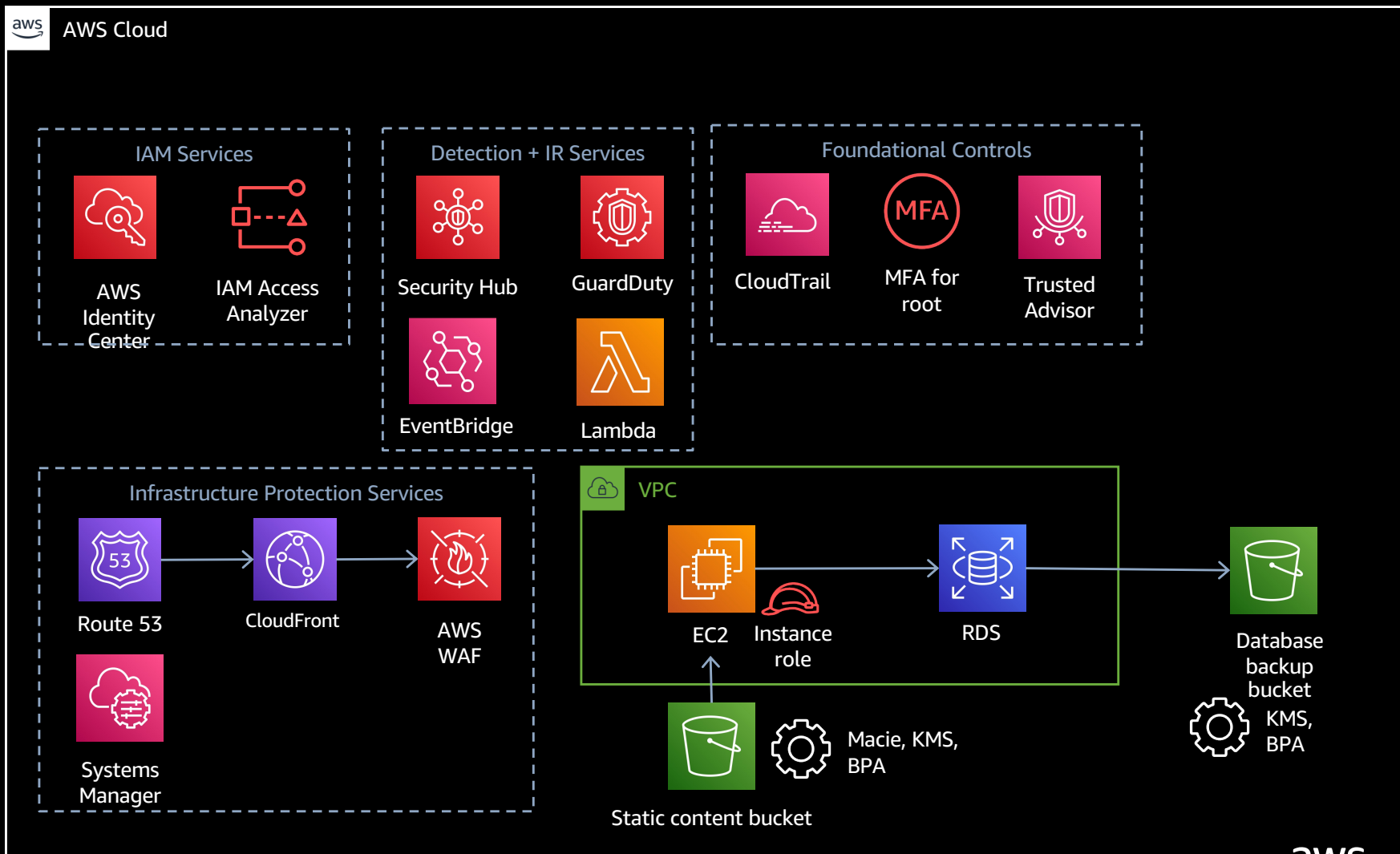
Bob



Mary



Incident Response Runbooks



# Recap

- How AWS thinks about Security
- The AWS Shared Responsibility Model
- Foundational controls
- The Well Architected Framework – The Security Pillar
  - Identity and Access Management
  - Detection
  - Infrastructure protection
  - Data protection
  - Incident response

# Useful Resources



- [AWS Security Portal](#)
- [AWS Startup Security Baseline \(SSB\)](#)
- [AWS Security Solutions Library](#)
- [Security Pillar](#) of AWS Well-Architected Framework – Design cloud architectures with security in mind.
- [Security Reference Architecture](#)
- [AWS Architecture Center](#)
- [AWS Security Services](#)
- [Best Practices for Security, Identity and Compliance](#) – Whitepapers, blogs, videos, workshops
- [Customer Success Stories](#)
- [Security Competency Partners](#)
- [Security Learning](#)



# Thank you!

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