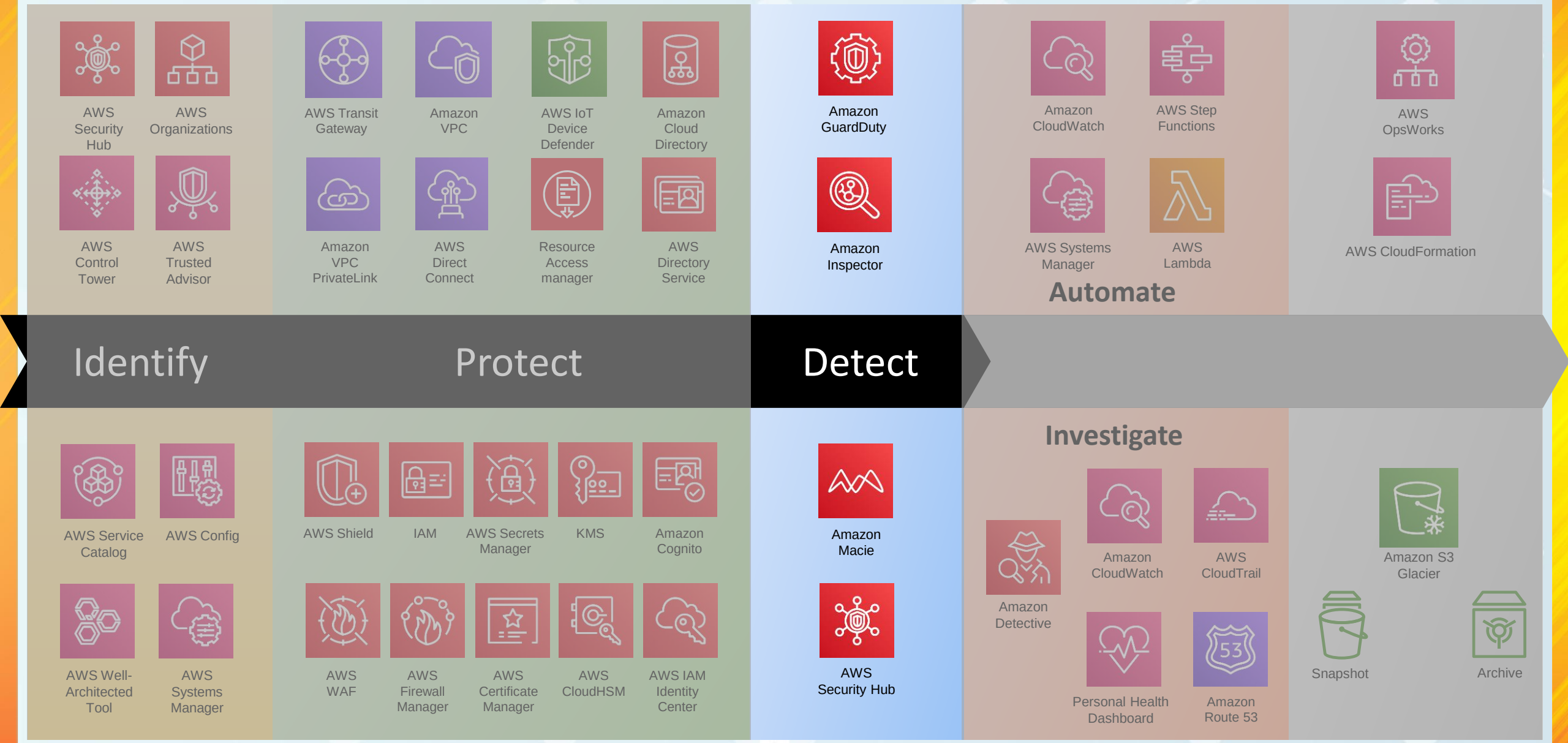
Detect

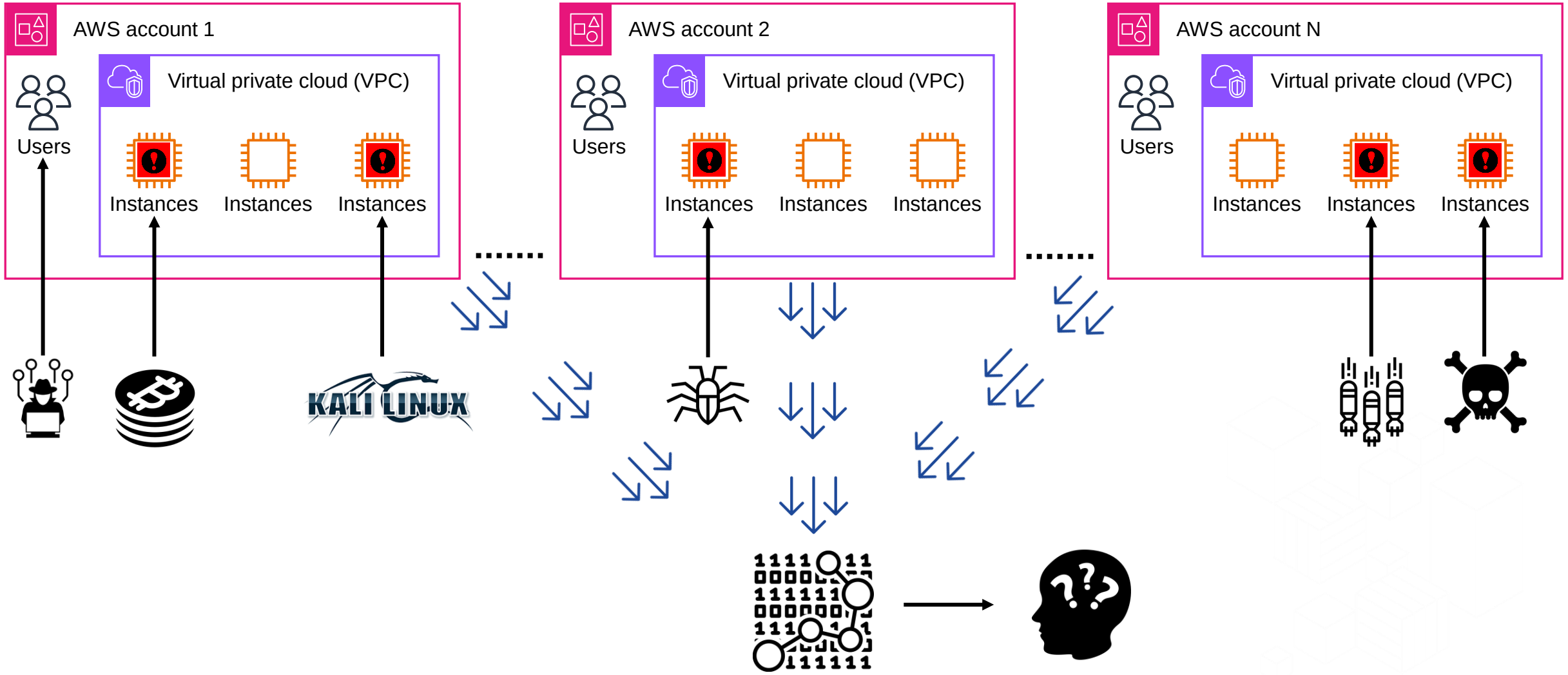
AWS Foundational and Layered Security Services



Amazon GuardDuty

Why we need Amazon GuardDuty?

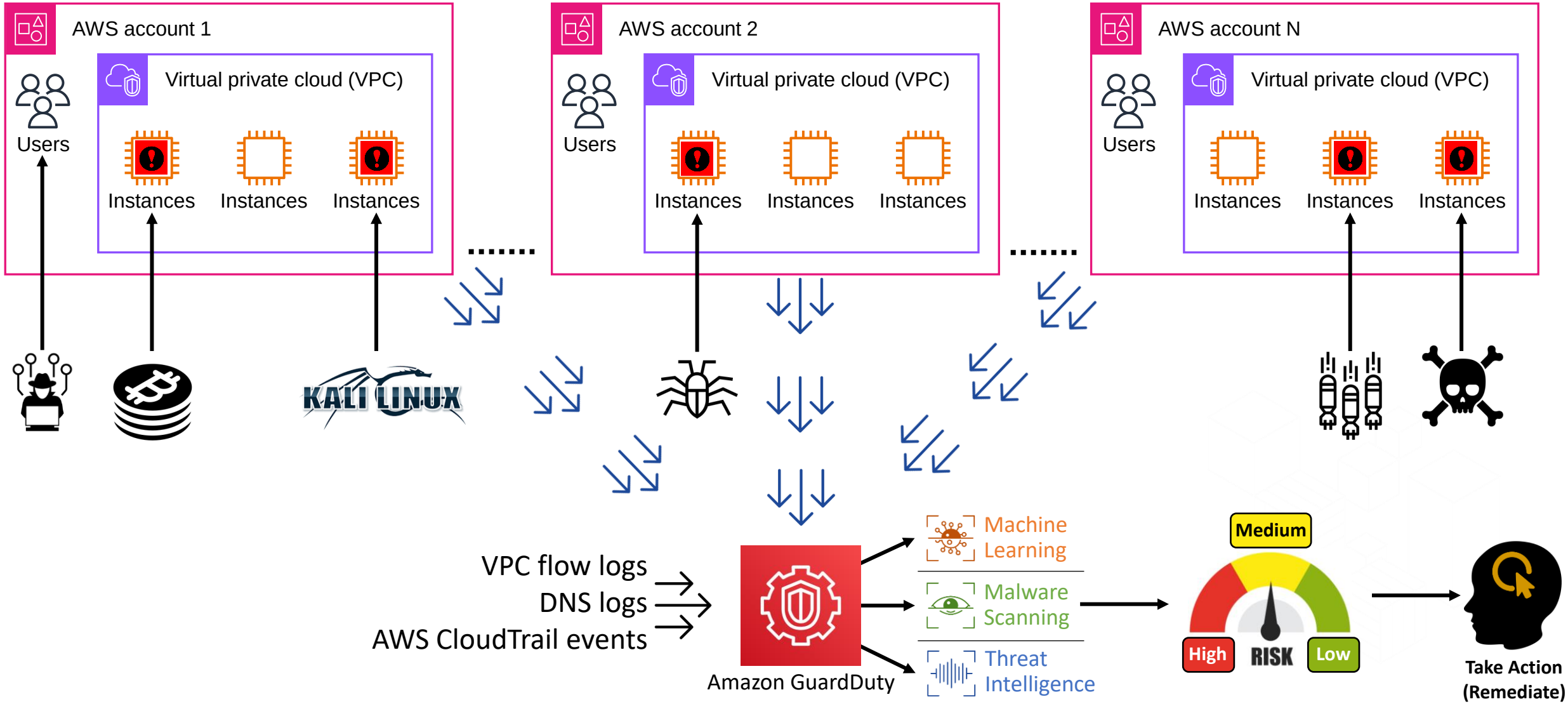
- A typical enterprise architecture



Finding a needle in the haystack

Why we need Amazon GuardDuty?

- A typical enterprise architecture



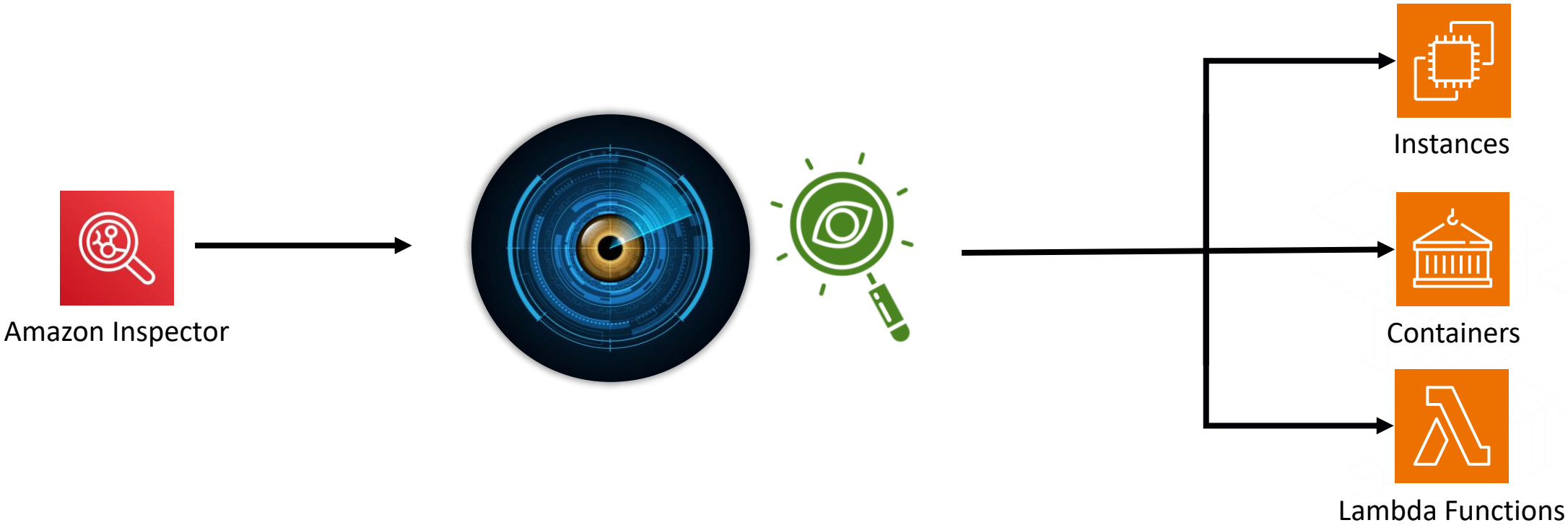
Amazon GuardDuty

- Amazon GuardDuty is a threat detection service that continuously monitors your AWS accounts and workloads for malicious activity and delivers detailed security findings for visibility and remediation.
- It analyzes and processes Foundational data sources, such as AWS CloudTrail management events, AWS CloudTrail event logs, VPC flow logs (from Amazon EC2 instances), and DNS logs.
- It also processes Features such as Kubernetes audit logs, RDS login activity, S3 logs, EBS volumes, Runtime monitoring, and Lambda network activity logs.
- It uses threat intelligence feeds, such as lists of malicious IP addresses and domains, and machine learning to identify unexpected, potentially unauthorized, and malicious activity within your AWS environment.

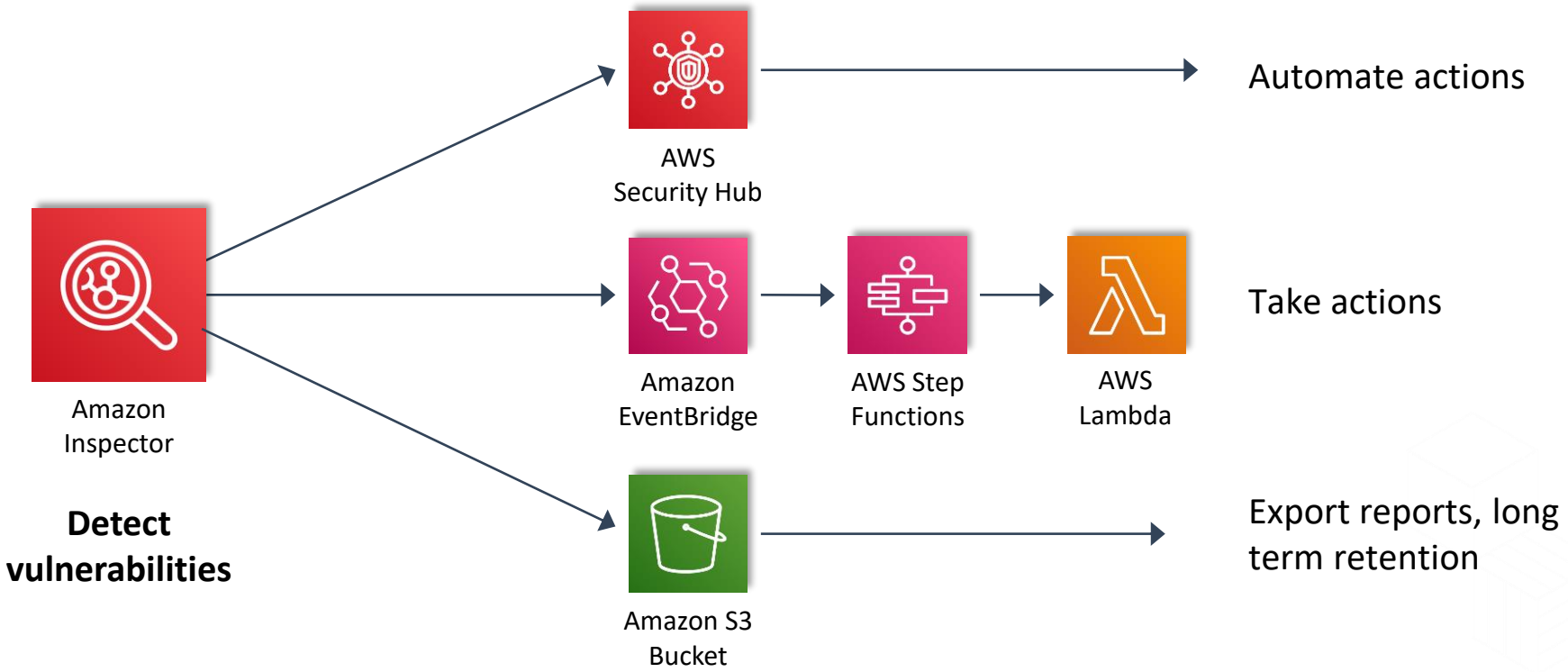
Amazon Inspector

Amazon Inspector

- Amazon Inspector is an automated vulnerability management service that continually scans AWS workloads for software vulnerabilities and unintended network exposure.
- A vulnerability is a weakness that can be exploited by cybercriminals to gain unauthorized access to a system.



Automated vulnerability management through Amazon Inspector



AWS Security Hub

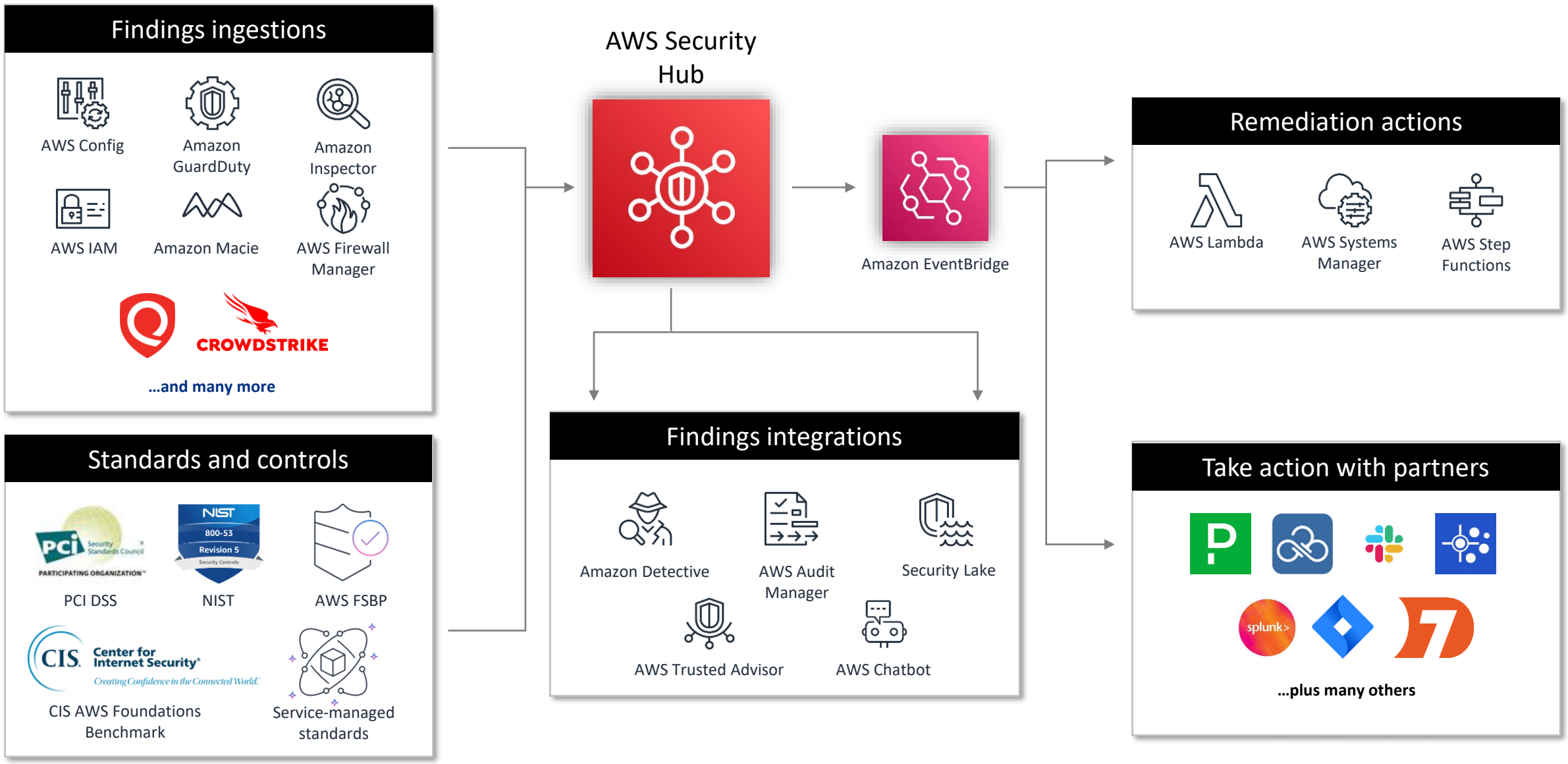
AWS Security Hub

- AWS Security Hub is a cloud security posture management service that continuously performs security best practice checks and seamlessly aggregates security findings from AWS and third-party services and enables automated response.

- Security Hub ingests findings from multiple AWS services, including Amazon GuardDuty, Amazon Inspector, AWS Firewall Manager, and AWS Health, and also from third-party services.

- It can be integrated with AWS Organizations to provide a single dashboard where you can view findings across your organization.

AWS Security Hub



Amazon Macie

Amazon Macie

- Amazon Macie is a data security service that discovers sensitive data by using machine learning and pattern matching, provides visibility into data security risks, and enables automated protection against those risks.

- If Macie detects a potential issue with the security or privacy of your data, such as a bucket that becomes publicly accessible, Macie generates a finding for you to review and remediate as necessary.