



AWS Builders Online Series

Move Fast & Be Secure on AWS Cloud

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AWS



Pepper as a Service (the other PaaS)



Why we will be successful



Outsourced dev



Lean start up



Low costs

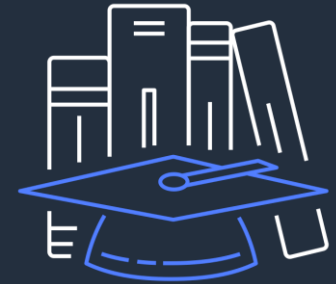
Think about security



For our users

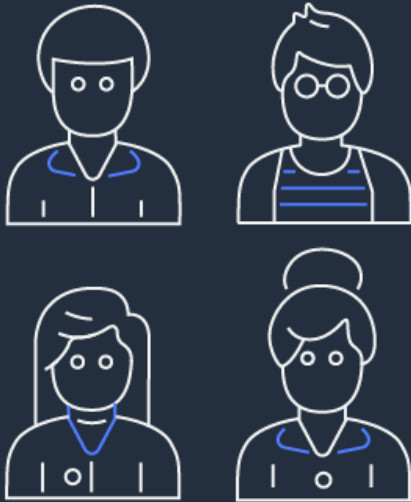


For our providers



For us

Security culture

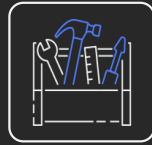


Security is everyone's job



Secure = Complete

Security considerations



Secure
application



Secure
environment

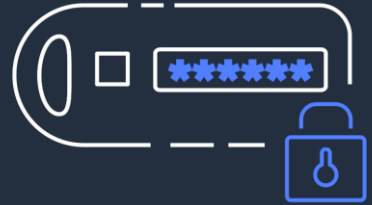


Separation
of duties



Monitoring

Secure environment



Enable MFA



Don't use root



Federate Identity

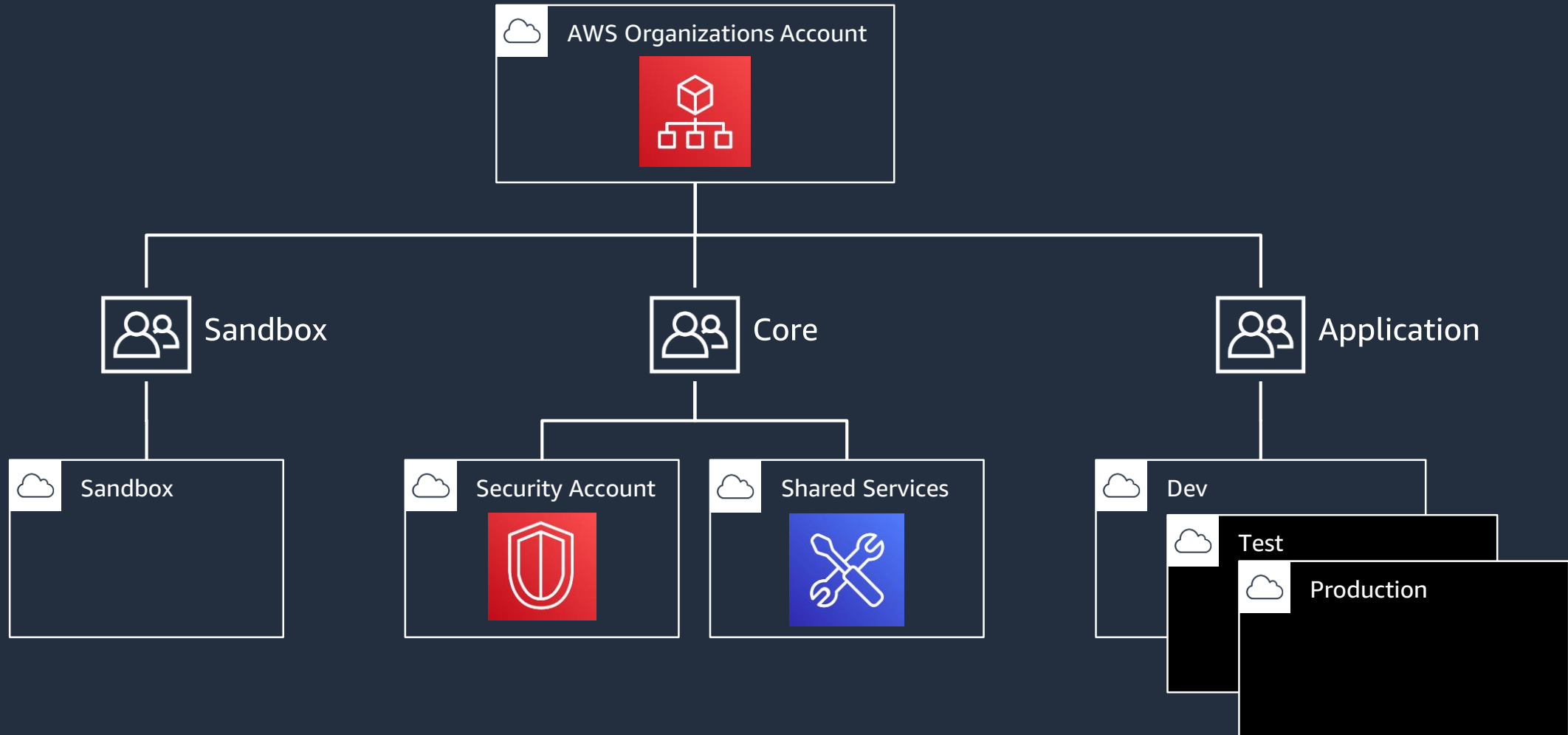


Least privilege



Disable public buckets

Separation of duty – multi-account strategy



Security considerations



Secure
application



Secure
environment

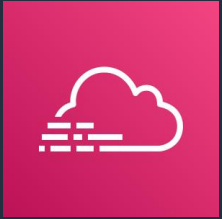


Separation
of duties



Monitoring

Monitoring



AWS CloudTrail



Amazon GuardDuty

AWS Guard Duty



Generate findings
through VPC Log
Stream

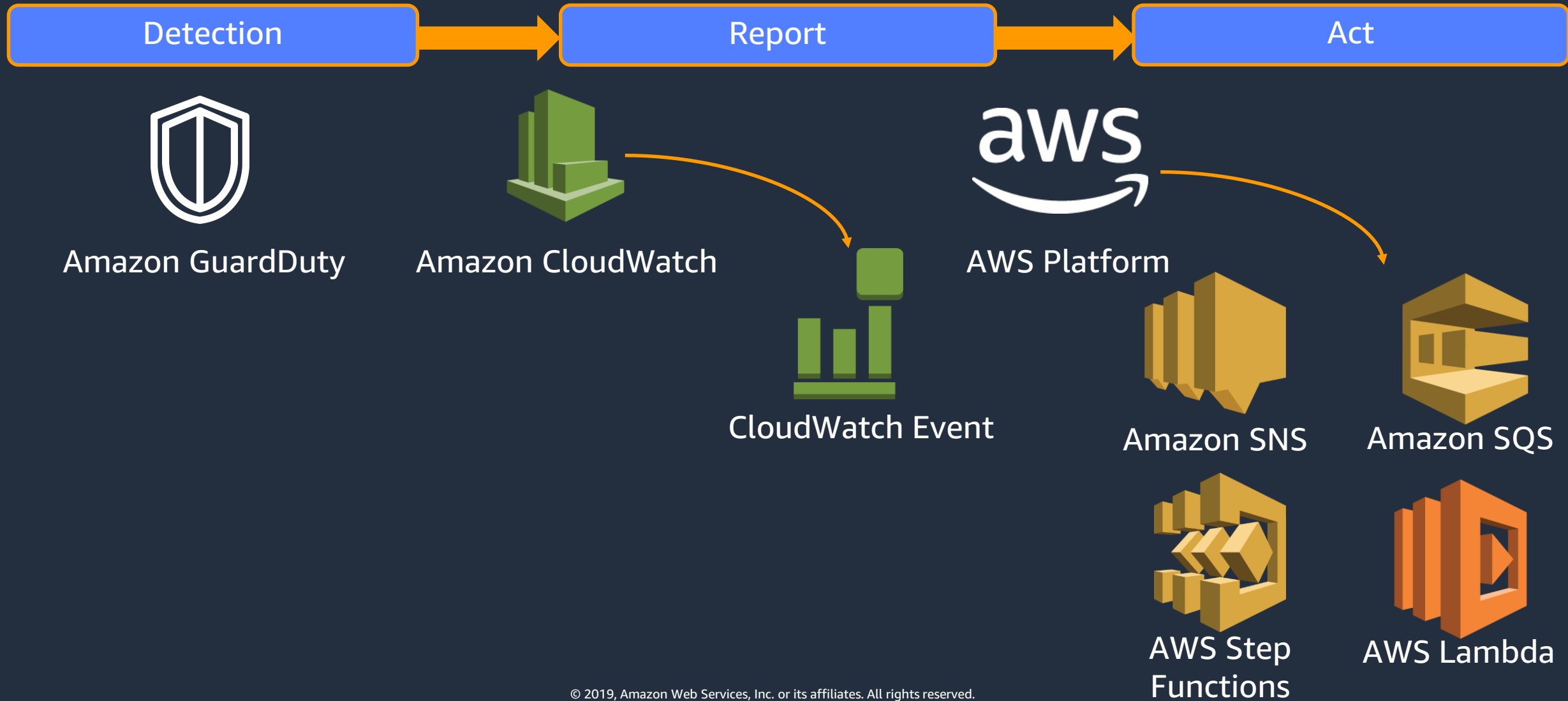


Queries to
questionable
domains

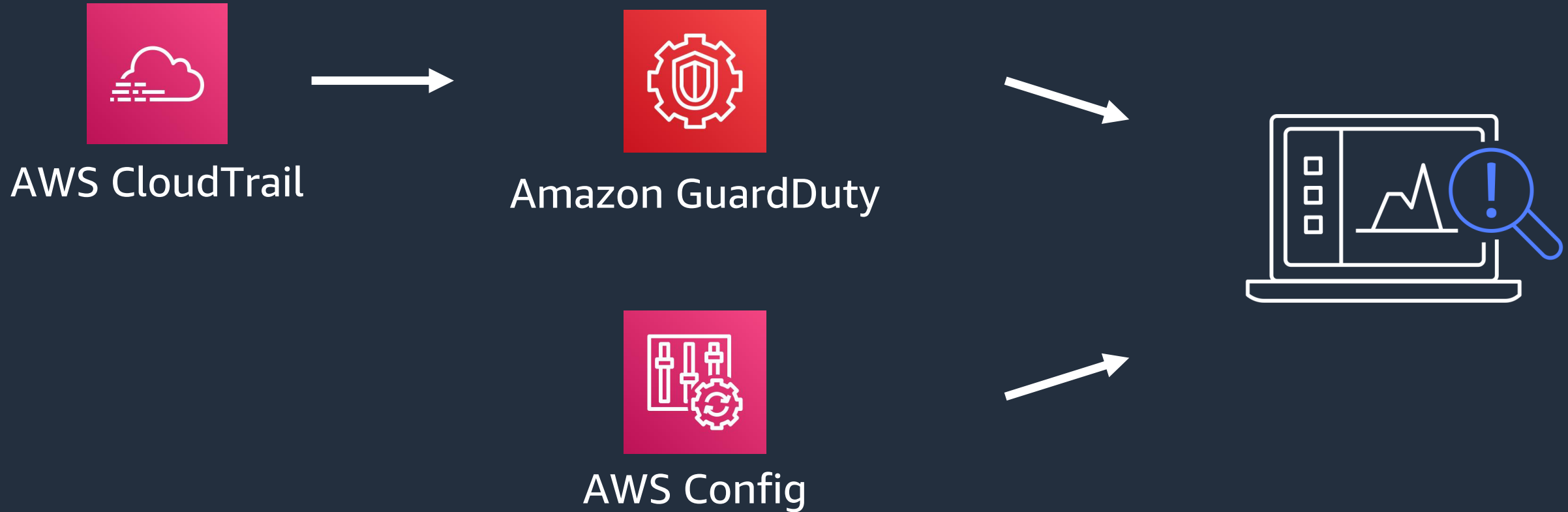


AWS CloudTrail
history of AWS
calls and user
activity

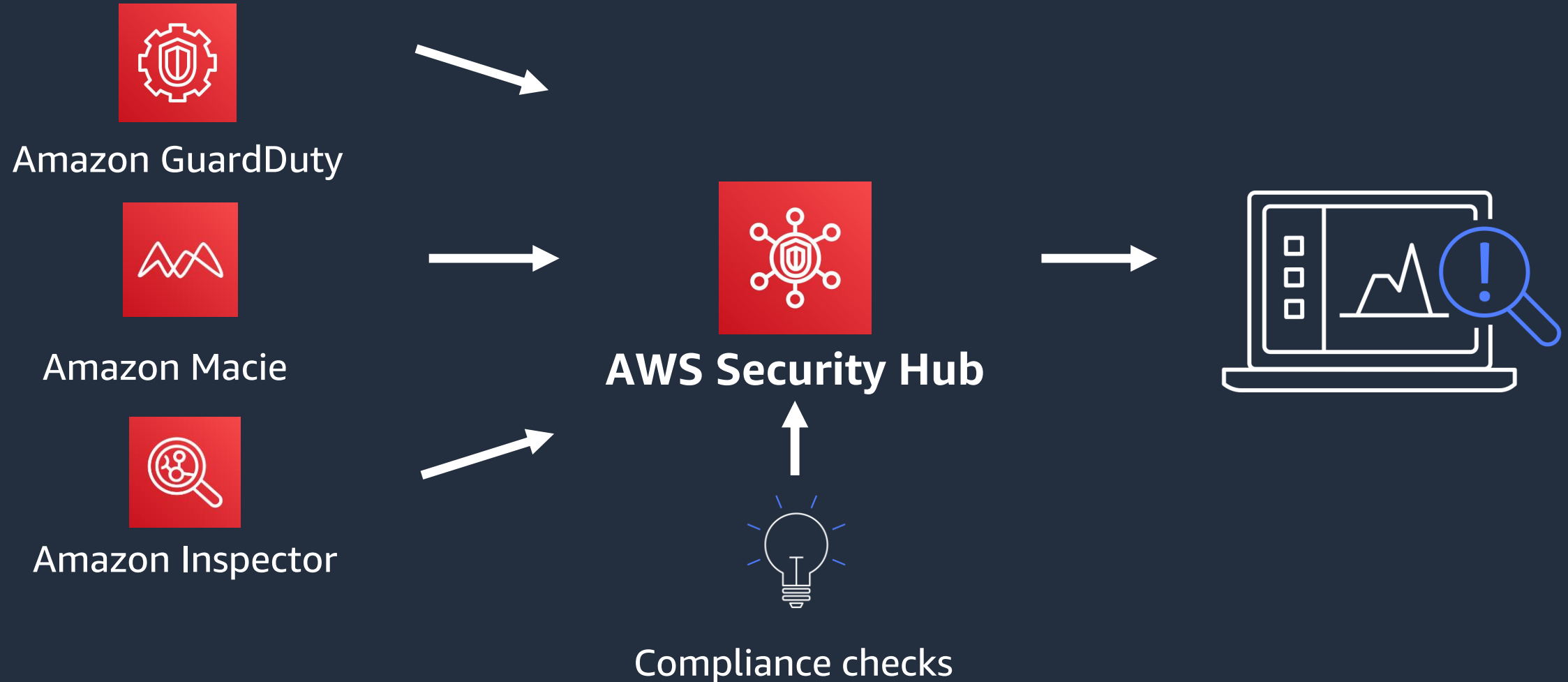
Automating Remediation



Monitoring



Monitoring – the easy way



Monitoring - evolution



Manual



Alerting



Automated

Security considerations



Secure
application



Secure
environment



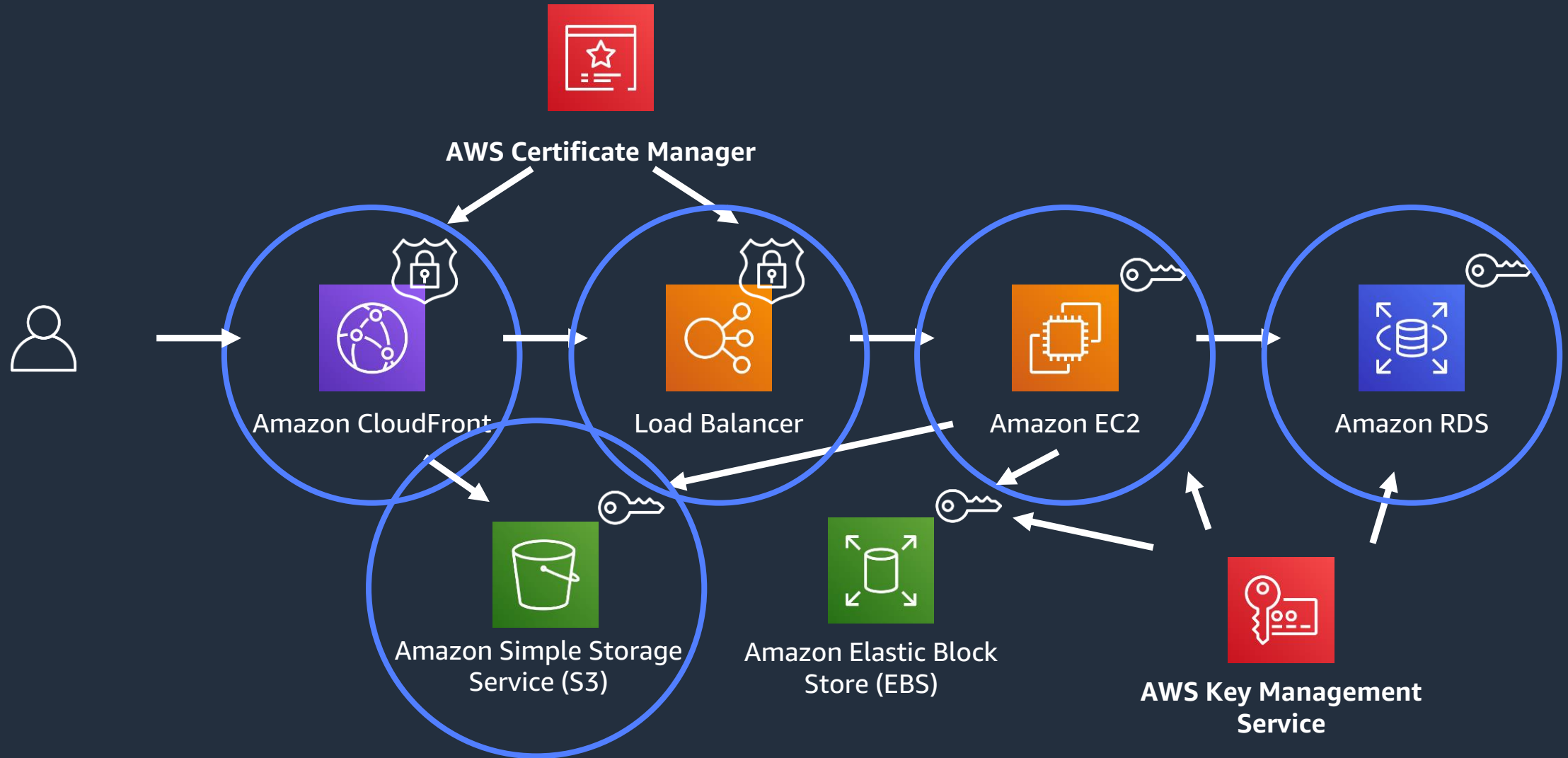
Separation
of duties



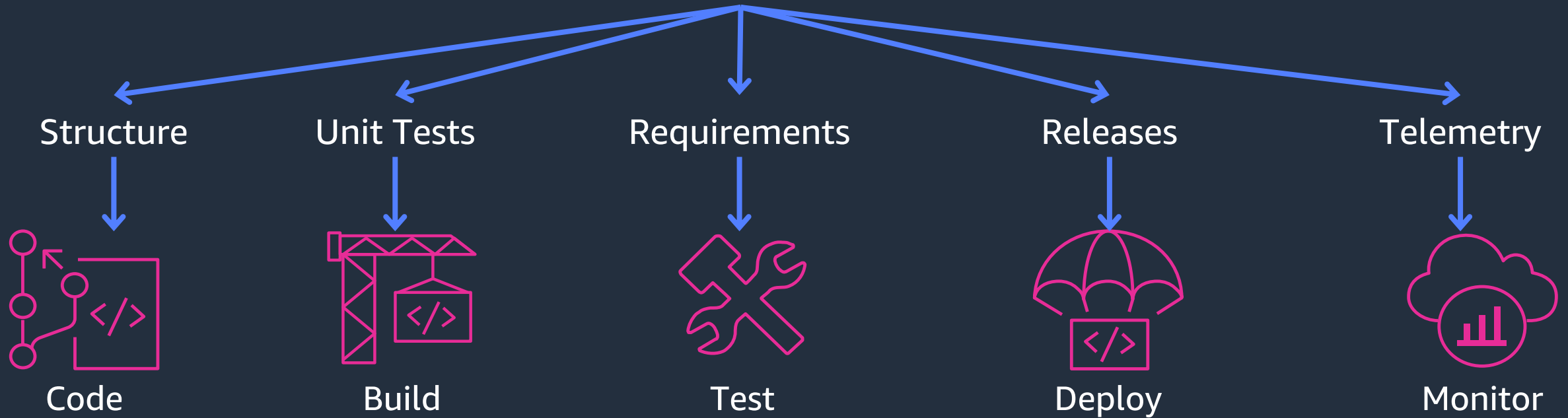
Monitoring



Secure application = use service features



Every step an opportunity for compliance



Security considerations



Secure
application



Secure
environment



Separation
of duties

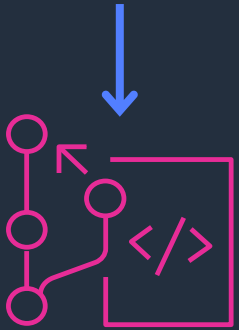


Monitoring



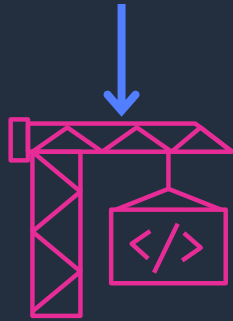
Security mechanisms = complete

Code analysis



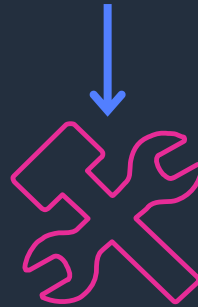
Code

Dependencies



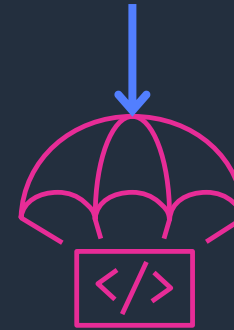
Build

Vulnerability scan



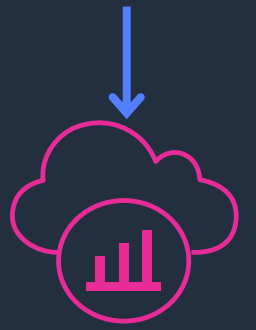
Test

Hash verification



Deploy

Automated



Monitor

“What if we weren’t here
tomorrow?”

Total cost and effort?

	Cost per month	Effort to Implement
Federate Identity - Free	\$0	1 hour
Use multiple accounts – Free	\$0	1 hour
AWS CloudTrail Logs – S3 storage	\$3 (typical)	30 minutes
AWS Config – per rule + \$0.003/configuration item	\$10 - 5 rules in prod \$3 – 1000 items in prod account	1 hour
Amazon Guard Duty – Typically 1%	\$0.16	15 minutes
	\$16.16 / month	3 hours 45 minutes

\$16.16/month and less than a day for...



Protected root



Basic monitoring



User lifecycle



Basic guardrails



Info for incidents

...from Day 1

Resources

AWS Security Best Practices

August 2016

We welcome your feedback. Please share your thoughts at this [link](#).

AWS Well-Architected Framework

November 2018



<https://aws.amazon.com/whitepapers/>

<https://aws.amazon.com/architecture/well-architected/>



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