

# RSA® Conference 2019

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# BETTER.

SESSION ID: CSV-T08

## Using Automation to Help Achieve Security in a Multi-Cloud Environment

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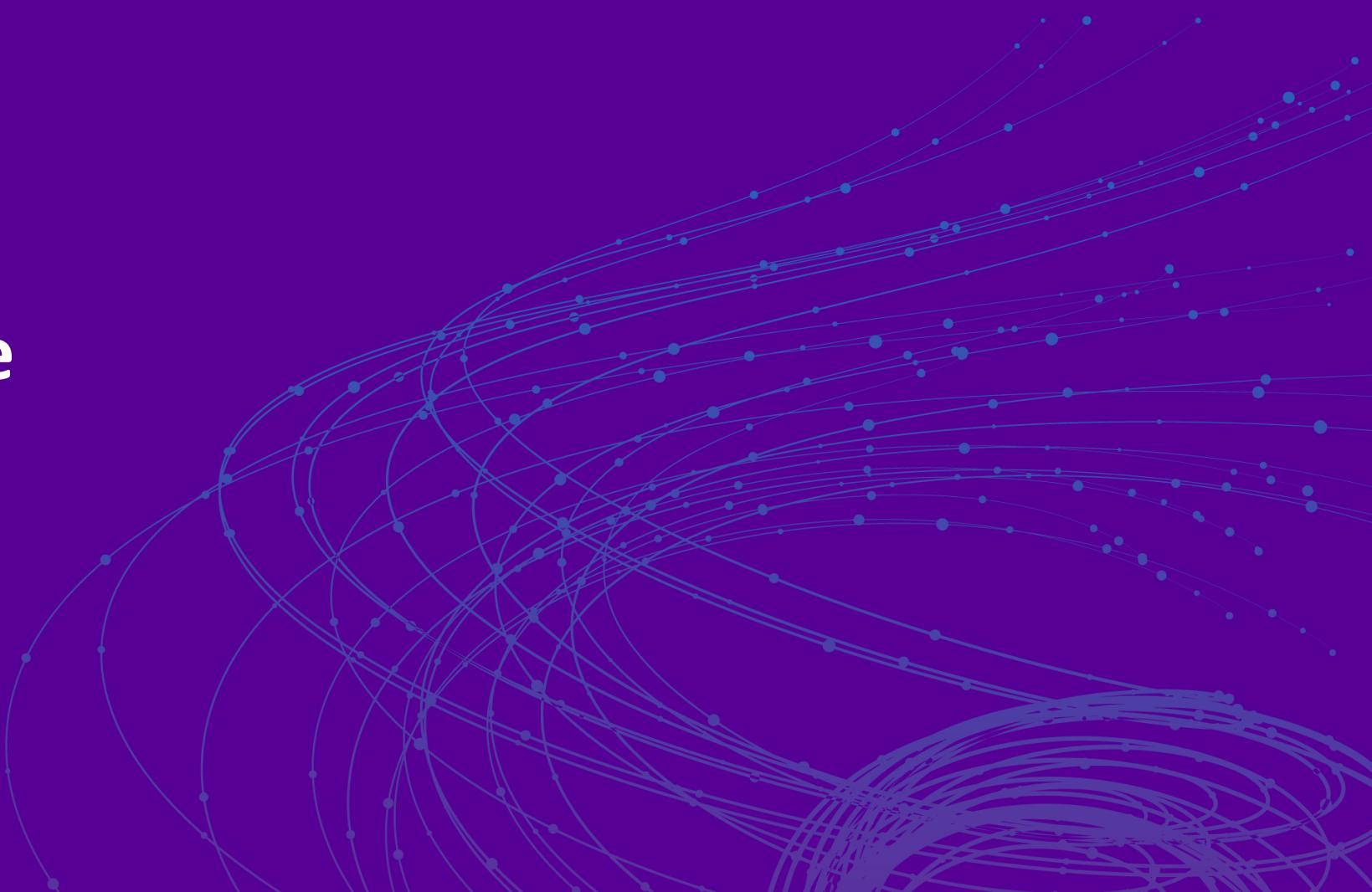
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# Agenda

- About Adobe
- Evolution to Multi-cloud
- The Adobe OpSec “Stack”
- Making Use of Data to Drive Governance
- Moving Forward: Containerization
- Wrap-Up/Conclusion

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## About Adobe



# Adobe is one of the largest and most diversified software companies in the world



**~20,000**

Employees in  
37 countries



**+35**

Years of  
revolutionizing industries



**\$7.3B**

FY2017  
Revenue

**76%**

Of employees work  
in LEED certified  
workspaces

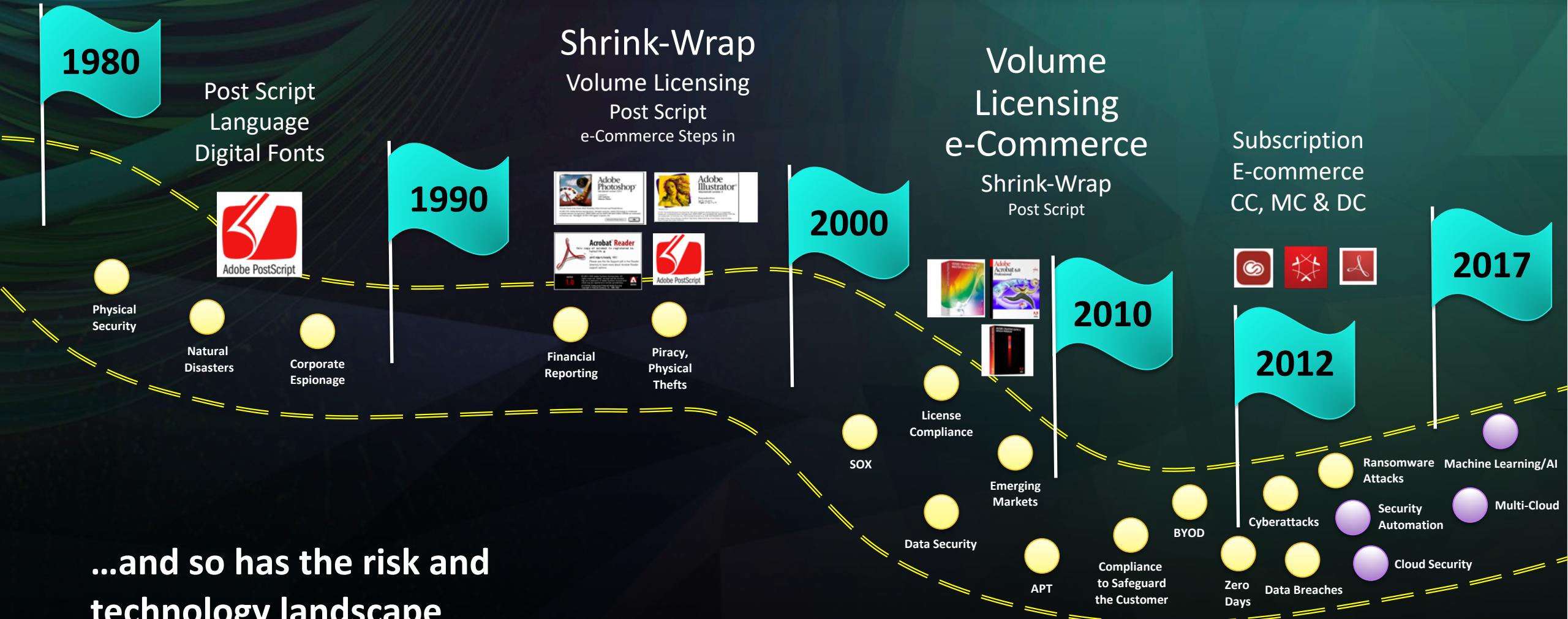
**~4,300**

Patents\*

**\$36.4M**

Given to the  
community in 2017

# Adobe's Business Has Changed



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## Evolution to Multi-cloud



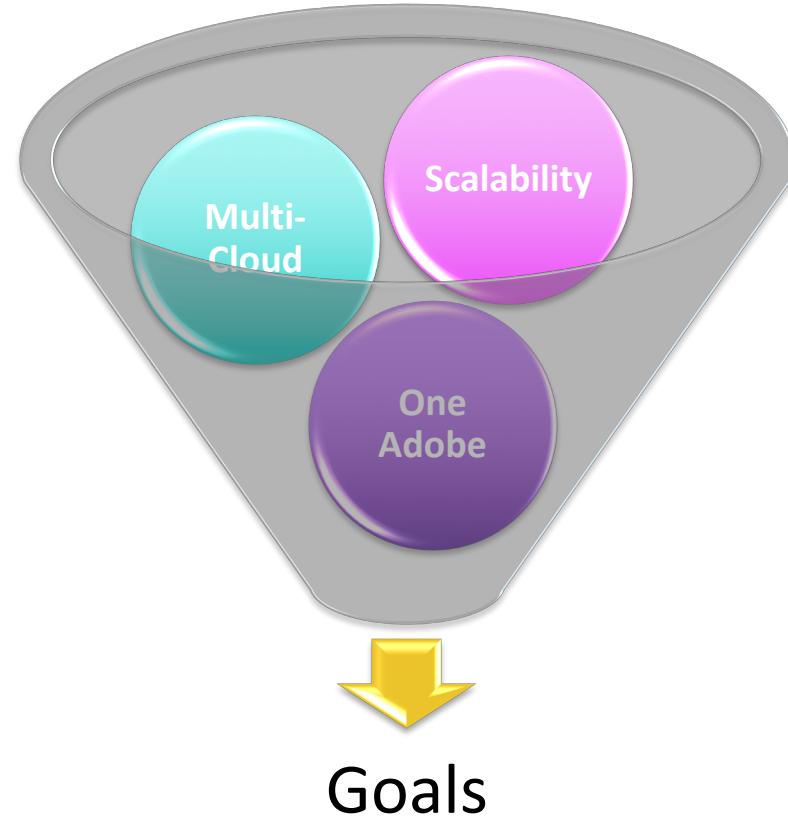
# Multi-Cloud Security Needs

- Clear visibility into our security posture at any point, regardless of cloud infrastructure provider
- Quick determination of any potential security gaps in our environment
- Provide a common, proven security solution set for any application
- Accelerate reduction in security risk as we set ourselves up to better manage costs and customer demands



# Getting to the “Ideal” Operational Security Stack

- The standard set of tools and services that are a part of the operational stack and tool chain used to measure, monitor and remediate security gaps in Adobe’s operational environments

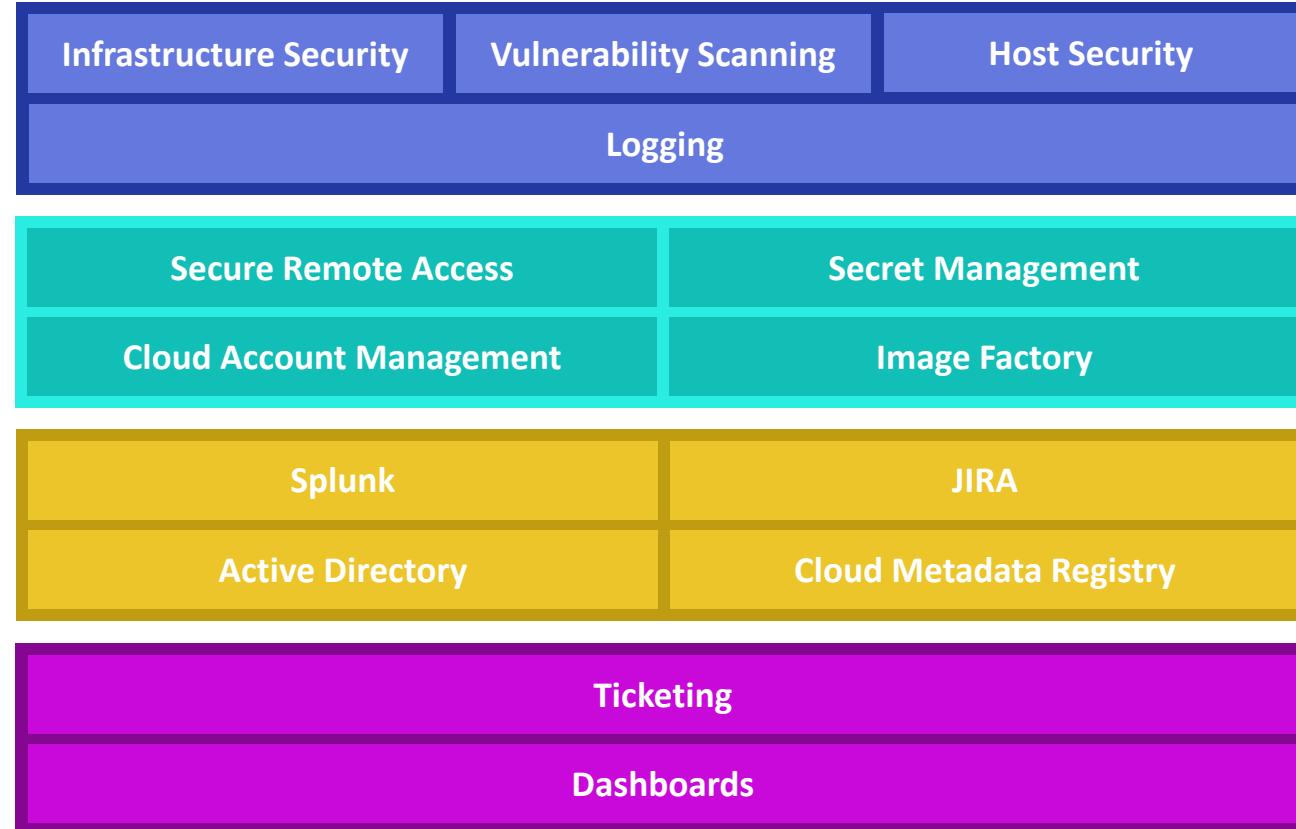


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## The Adobe OpSec “Stack”

A complex, abstract network diagram composed of numerous small, light-blue circular nodes and thin, curved lines representing connections between them. The nodes are densely packed in the lower right quadrant, creating a sense of a large, interconnected system. Some lines form larger, more prominent loops and curves, while others are more isolated or part of smaller clusters.

# The Adobe Stack



Monitoring



Workflow

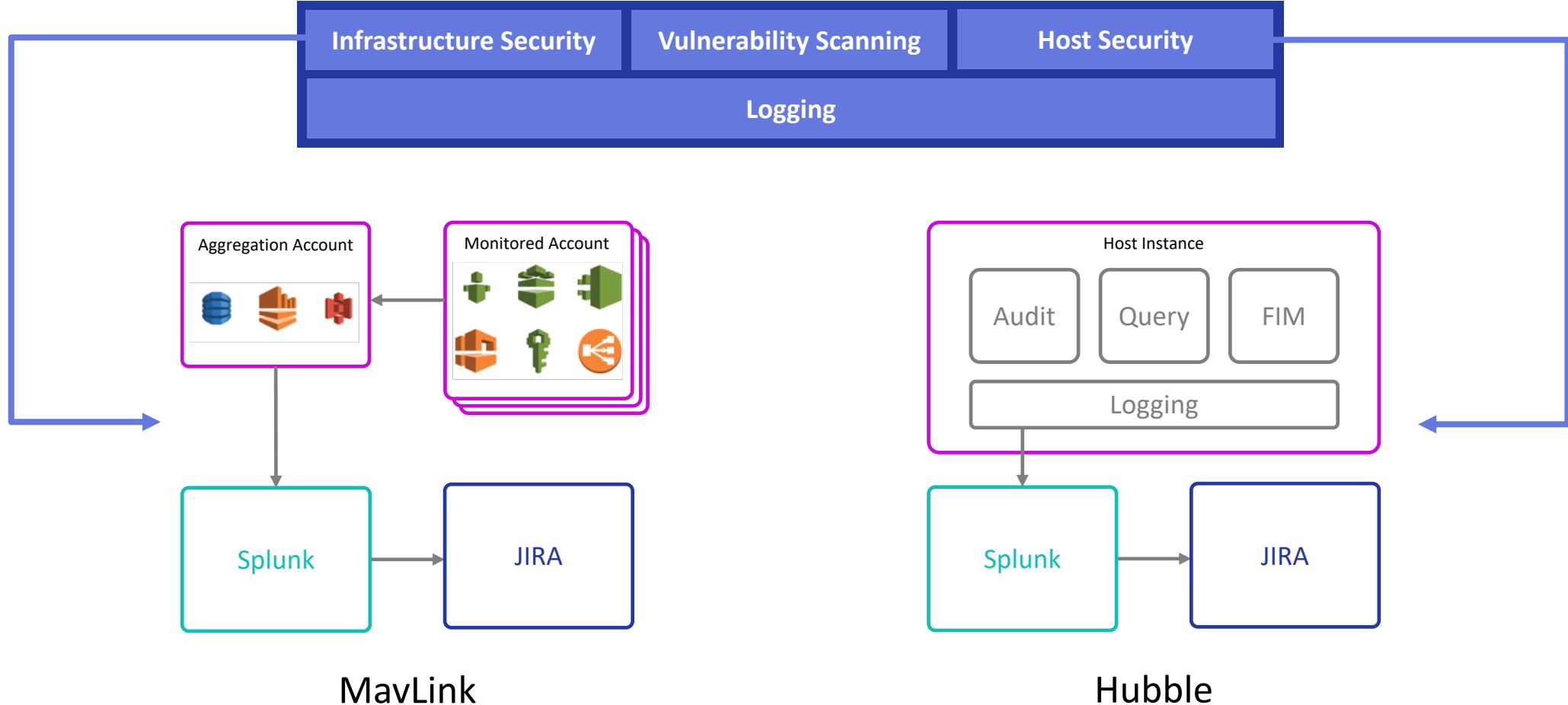


Infrastructure

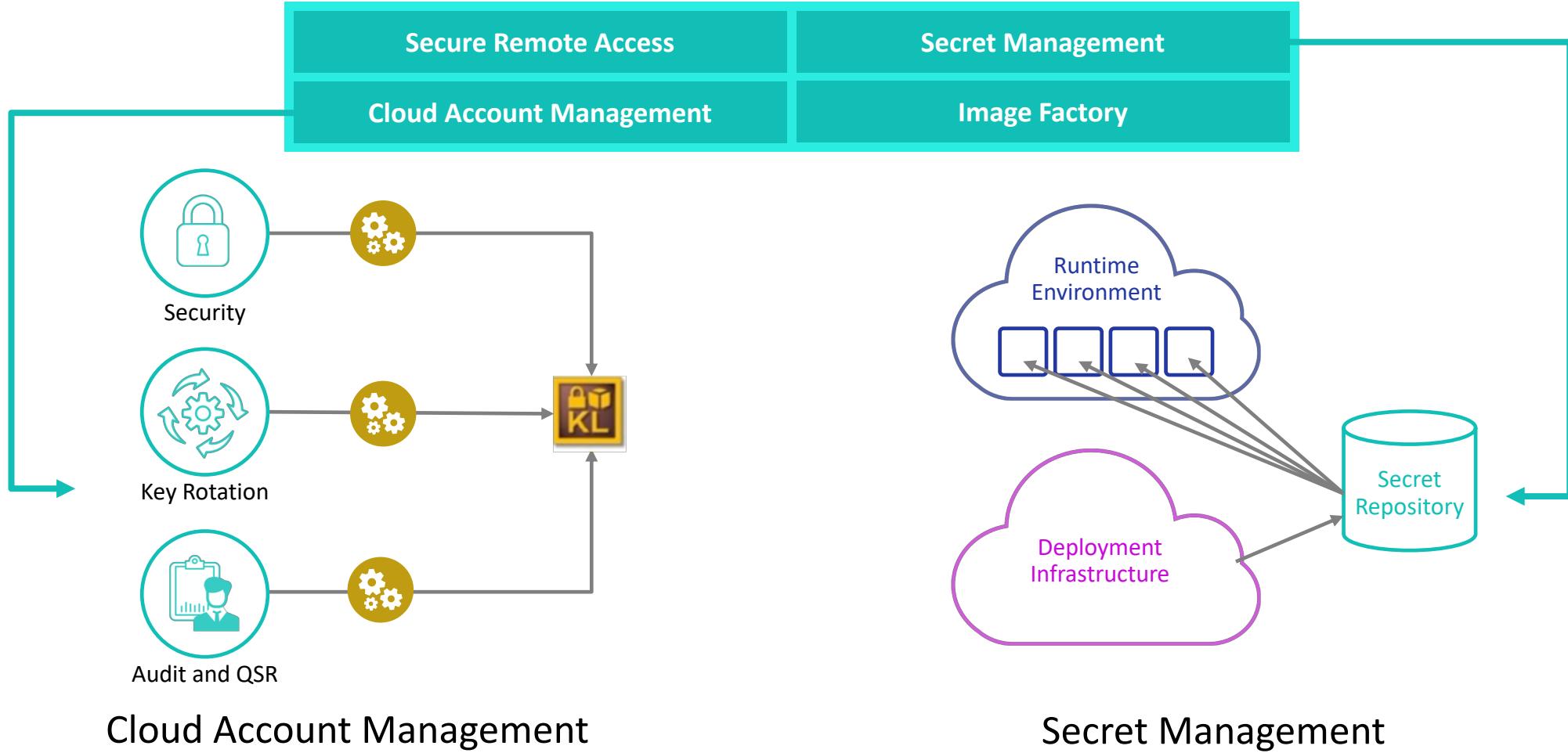


Process

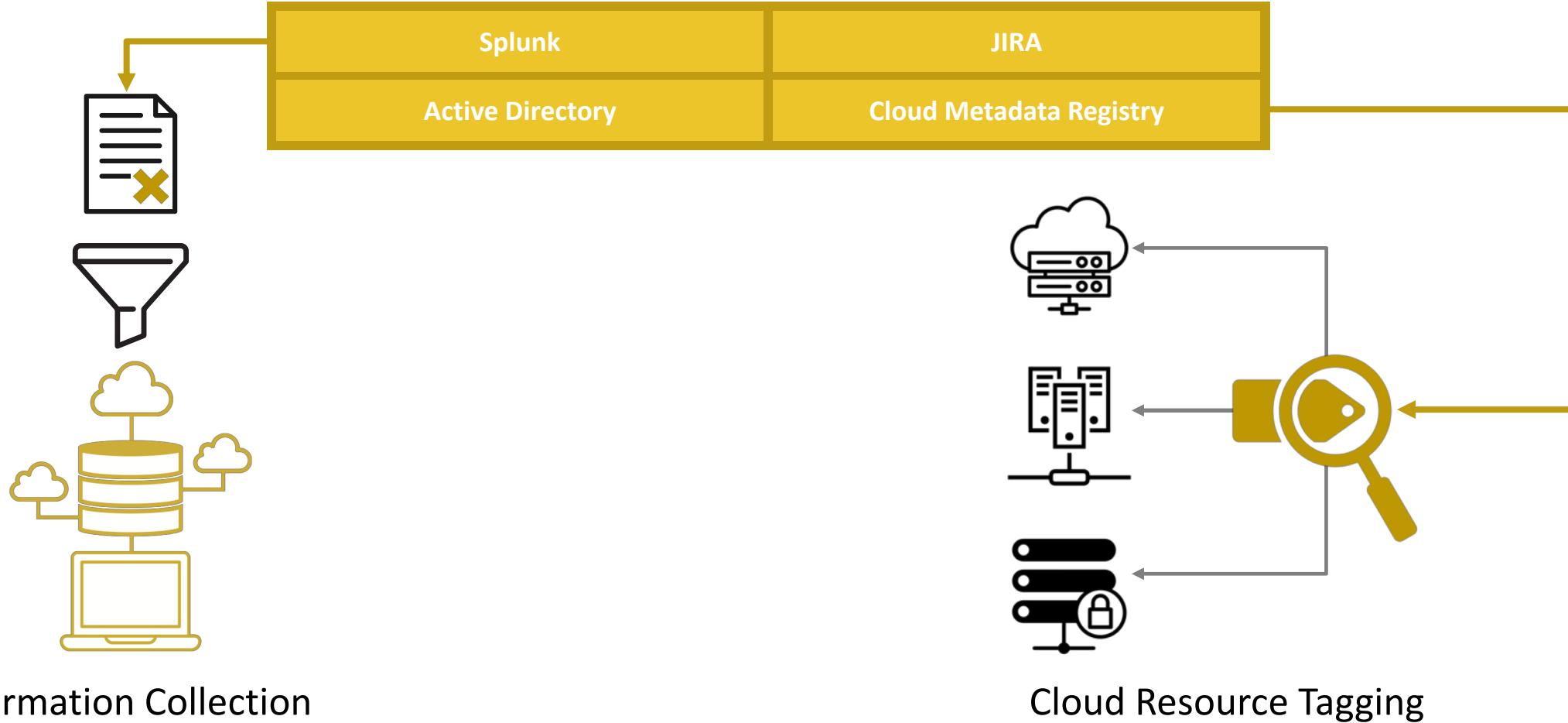
# Monitoring



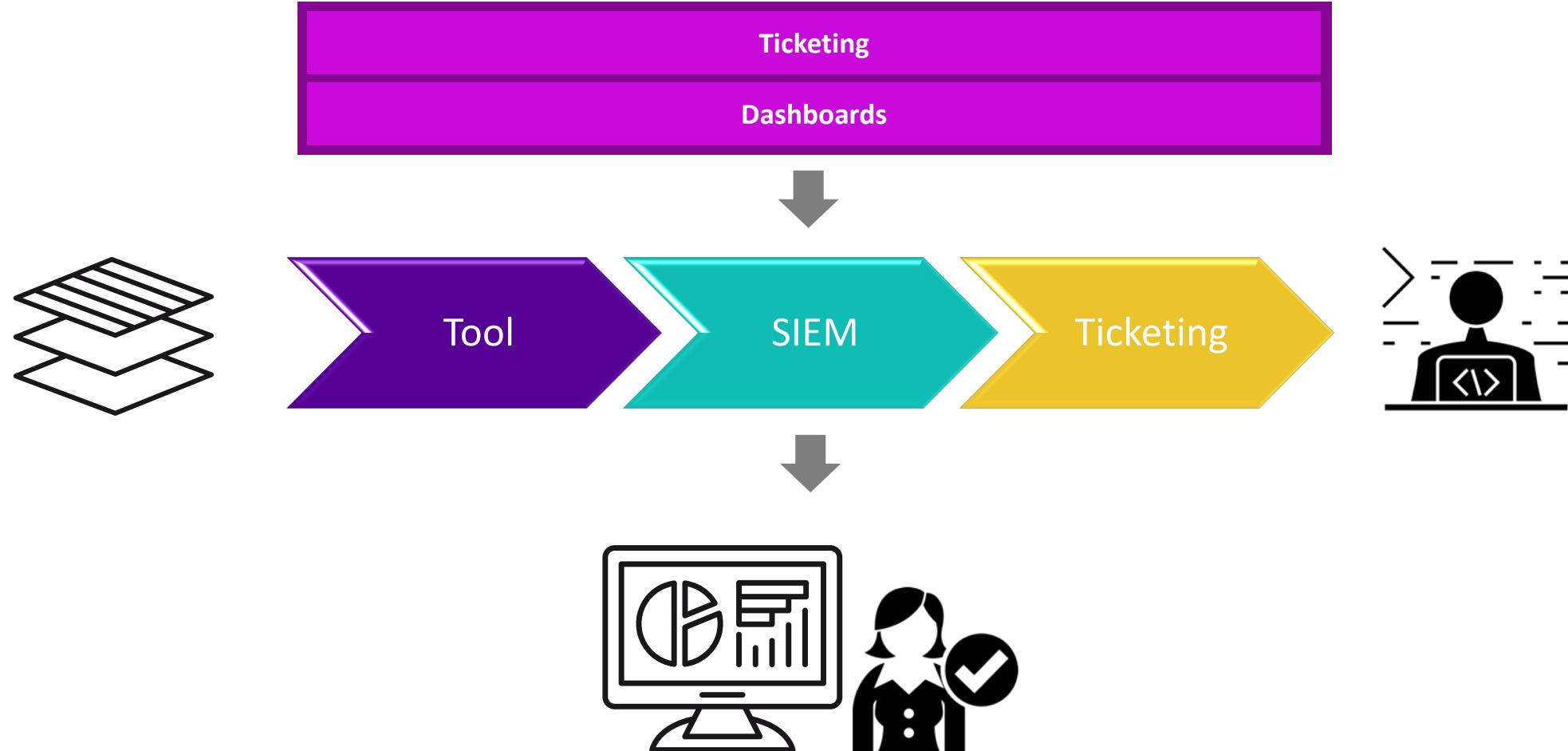
# Workflow



# Infrastructure



# Process



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## Making Use of Data to Drive Governance



# More Automation = Better Response

- Clear escalation and response paths
- Data provides clear “heatmaps” as to where problem areas may lie
- Improvements in information quality = better communication with executive management

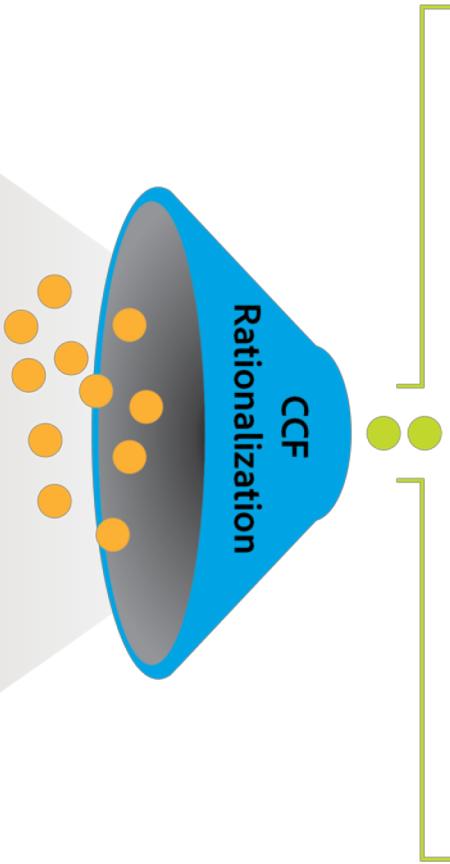


# Adobe's Open CCF – Putting Data to Use

## The Adobe Open Common Controls Framework (CCF)

10+ Standards,  
~1350 Control Requirements (CRs)

- AICPA Trust Service Principles  
Service Organization Controls (SOC) - 116
- Family Educational Rights and Privacy Act (FERPA) - 5
- FedRAMP - 325
- General Data Protection Regulation (GDPR) - 28
- Gramm-Leach-Bliley Act (GLBA) - 12
- Health Insurance Portability and Accountability Act (HIPAA) - 112
- ISO 27001 and 27002 - 150
- Payment Card Industry Data Security Standard (PCI DSS) - 247
- Privacy Shield - 47
- Sarbanes Oxley 404 (Information Technology General Controls) - 63
- HITRUST - 149
- BSI CS - 114



~ 290 common controls  
across 20 control domains

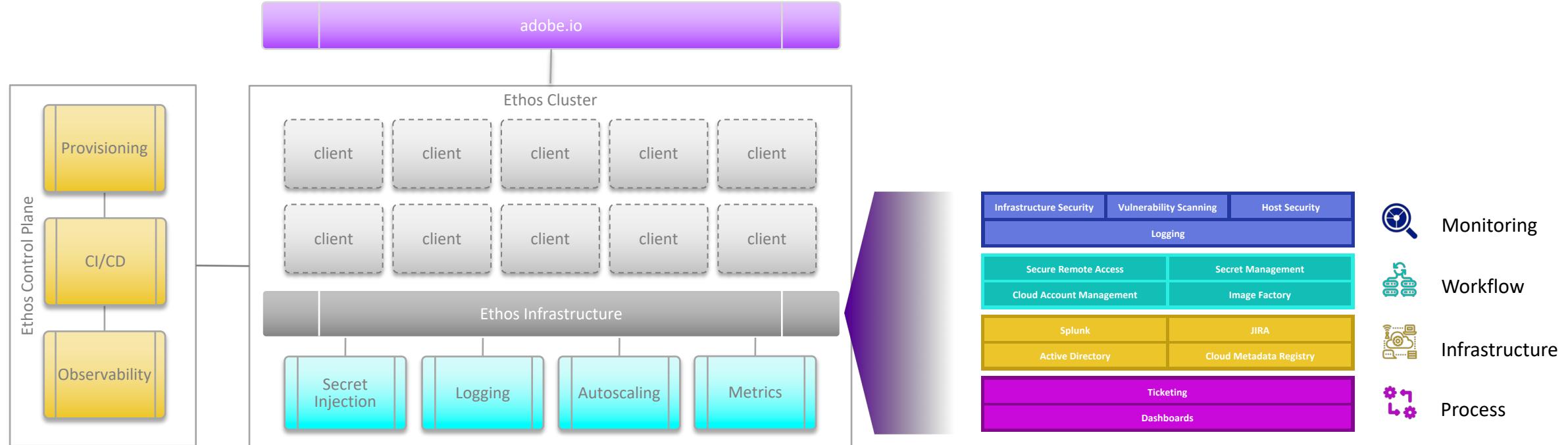
- Asset Management – 11 Controls
- Backup Management – 5 Controls
- Business Continuity – 5 Controls
- Change Management – 6 Controls
- Configuration Management – 15 Controls
- Data Management – 32 Controls
- Identity and Access Management – 49 Controls
- Incident Response – 9 Controls
- Mobile Device Management – 4 Controls
- Network Operations – 19 Controls
- People Resources – 6 Controls
- Risk Management – 8 Controls
- Security Governance – 23 Controls
- Service Lifecycle – 7 Controls
- Site Operations – 16 Controls
- System Design Documentation – 3 Controls
- Systems Monitoring – 30 Controls
- Third Party Management – 13 Controls
- Training and Awareness – 6 Controls
- Vulnerability Management – 21 Controls

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## Moving Forward: Containerization

A complex, abstract graphic in the background, rendered in a light blue color, consisting of numerous small circular nodes connected by thin lines. These lines form a dense web of paths that radiate from a central cluster of nodes towards the edges of the frame, creating a sense of movement and connectivity.

# In Parallel: Containerization with Ethos



Advanced Cloud Development Platform with Better Security Built-in

## Conclusion



# Conclusion

- Silos are death to a multi-cloud strategy – a uniform “best-of-breed” security stack is essential
- Build vs. buy – make the best choice you can based upon your needs
- Automation is key to gathering the right data to make decisions
- Clear tracking with established escalation paths keeps things moving
- Connect dashboards to real business results for executives

# Resources

## Trust Center

<https://trust.adobe.com>

## Open Source CCF v2.0

<https://www.adobe.com/go/open-source-ccf>

## Security @ Adobe blog

<https://blogs.adobe.com/security/>

## Advisories and updates

<https://www.adobe.com/support/security>

**Twitter:** @AdobeSecurity

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