



# Accelerating Cloud Migration With Splunk

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# Enterprise Service

Splunk at NAB in 2019

3500+

3000+

3

7+ TB

25+

Users from  
50+ teams

Splunk  
Forwarders

AWS Production  
clusters

Data indexed  
per day

Deployments  
per day



Splunk Enterprise  
Security™



Splunk IT Service  
Intelligence™

# Migrating to Cloud

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Cloud Migration in a Regulated Environment



# NAB'S JOURNEY



MIGRATING IN A REGULATED ENVIRONMEMNT



STRONG HISTORY  
EVOLVING WITH THE  
CLOUD



AWS OPENS SYDNEY REGION



NAB.COM.AU



ESTABLISHED CLOUD  
PLATFORM



EMBRACE OPEN SOURCE



MLC WEALTH



QUICKBIZ  
LOAN



ENTERPRISE  
SPLUNK



CONSTANT  
EXPERIMENTATION



NEW LEADERSHIP



PLATFORM BASED MICROSERVICES



ALEXA



NAB DISCOVERY  
CLOUD

2012

2013

2014

2015

2016

2017

2018

# Cloud Adoption Standards and Techniques (CAST)

Scaling Compliance

*“NAB has designed the CAST Framework for safe and scalable migration of material workloads to Public Cloud. The framework defines minimum standards, techniques and controls to ensure risks associated with hosting material workloads in Public Cloud are managed”*

Security

Architecture

DevOps and Delivery

Business Continuity

Service Management

Data Management

# How does Splunk fit in?

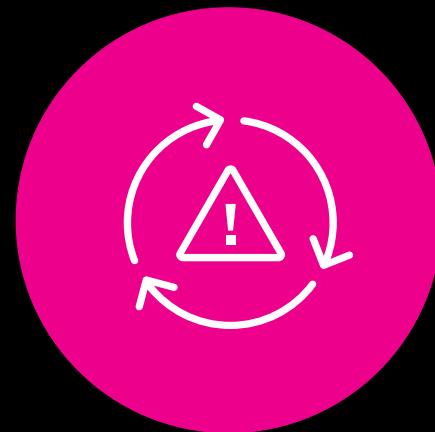
## Supporting Cloud Migration



Operational Monitoring  
and Analytics



Security Monitoring and  
Analytics



Continuous Compliance

# Continuous Compliance

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Dashboards, Alerts, APIs and Behavior Change



# Continuous Compliance

## Visibility across Cloud Platforms

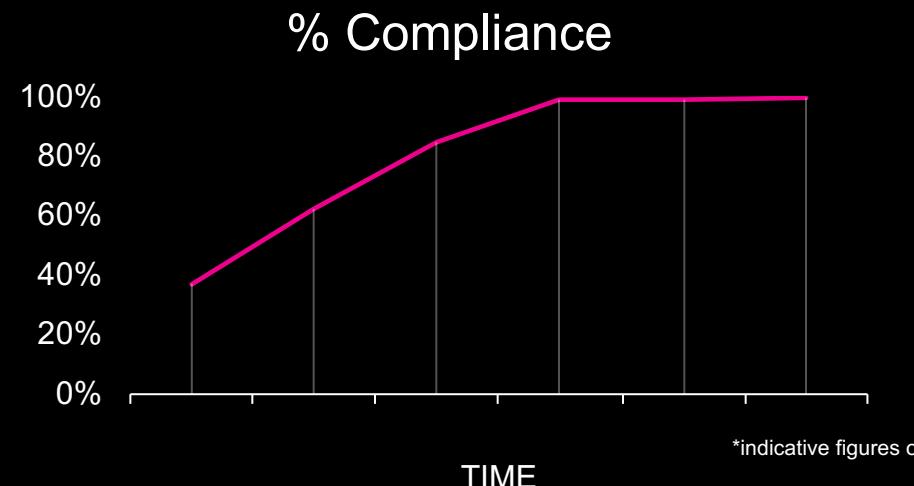


- ▶ Compliance data from multiple sources is **aggregated** and mapped to a common data model
- ▶ Data is enriched to add **context**
- ▶ **Dashboard templates** are configuration driven for consistency across multiple controls
- ▶ Compliance status is **exposed** to users and systems via dashboards, alert actions and APIs

\*sample data only

# Driving Compliance

Moving from reporting to behavior change



# Security Monitoring

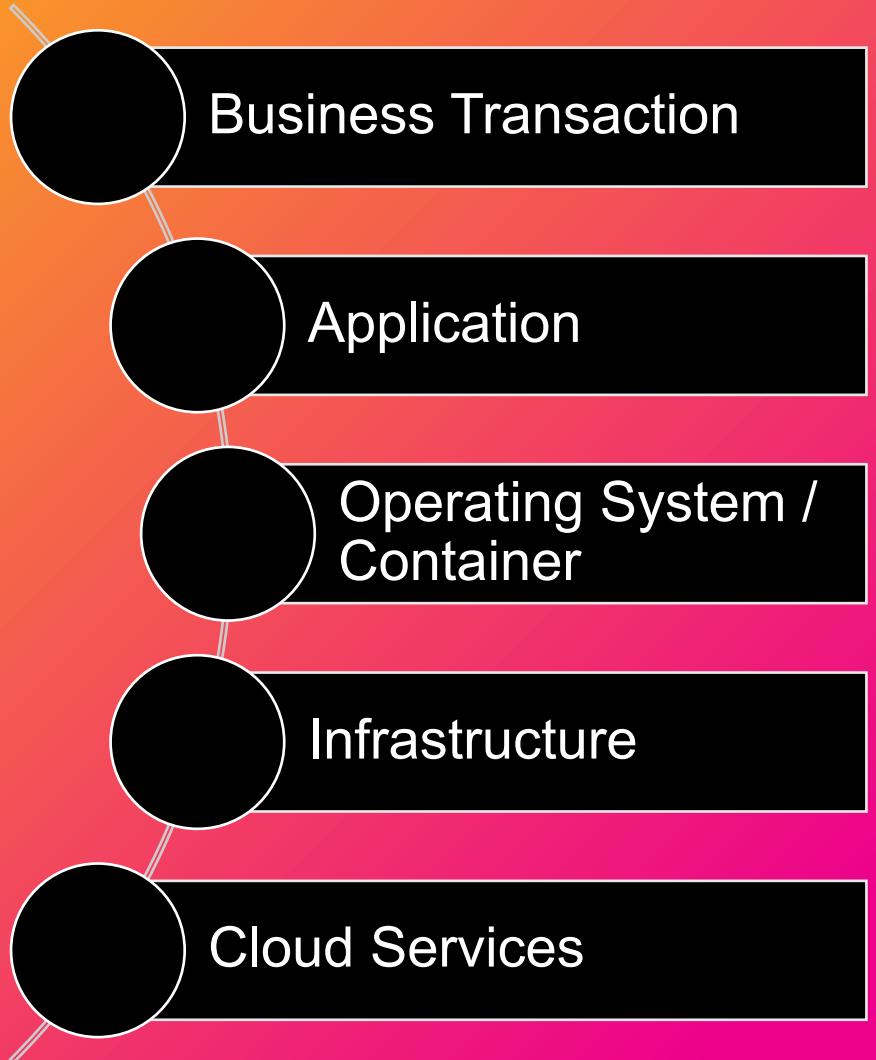
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Consistent detection across platforms

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# Security Data Collection

A consistent framework

- ▶ Define mandatory data sources for each service and technology component.
- ▶ Publish policies that are easy to consume and can be codified.
- ▶ Automate data collection and checks to ensure data completeness.
- ▶ Map to Splunk Common Information Model for consistency across Platforms.

# Operational Monitoring

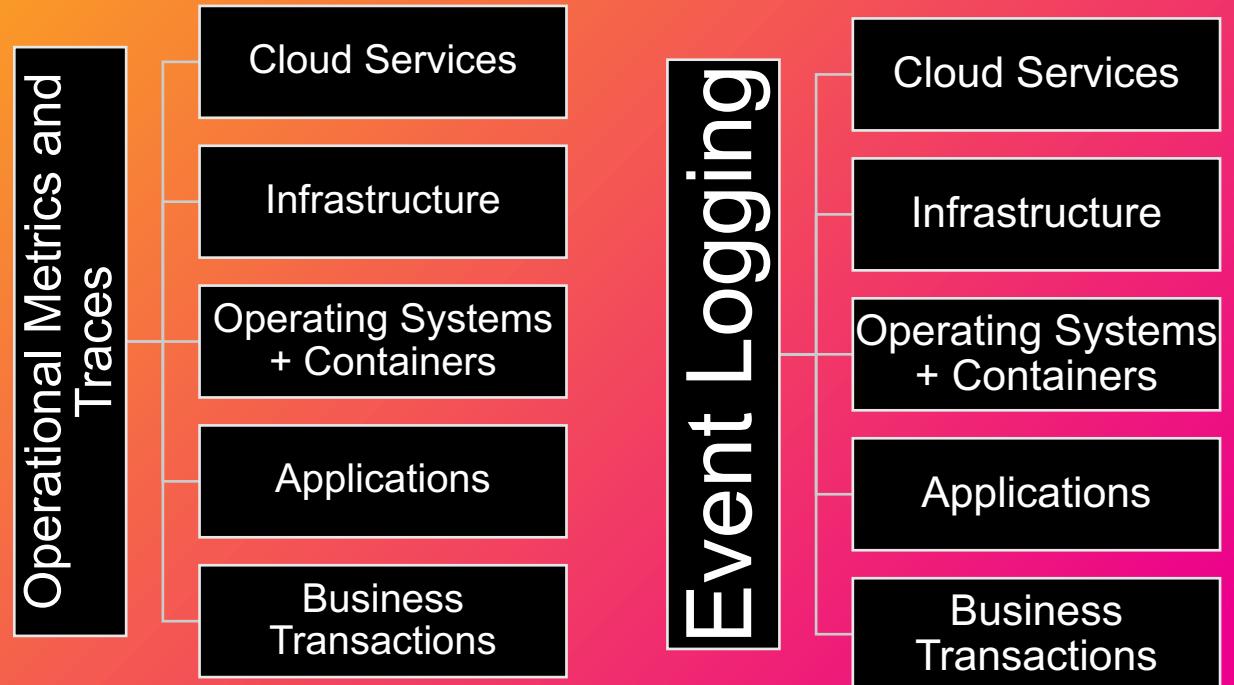
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A single view of Operational Health

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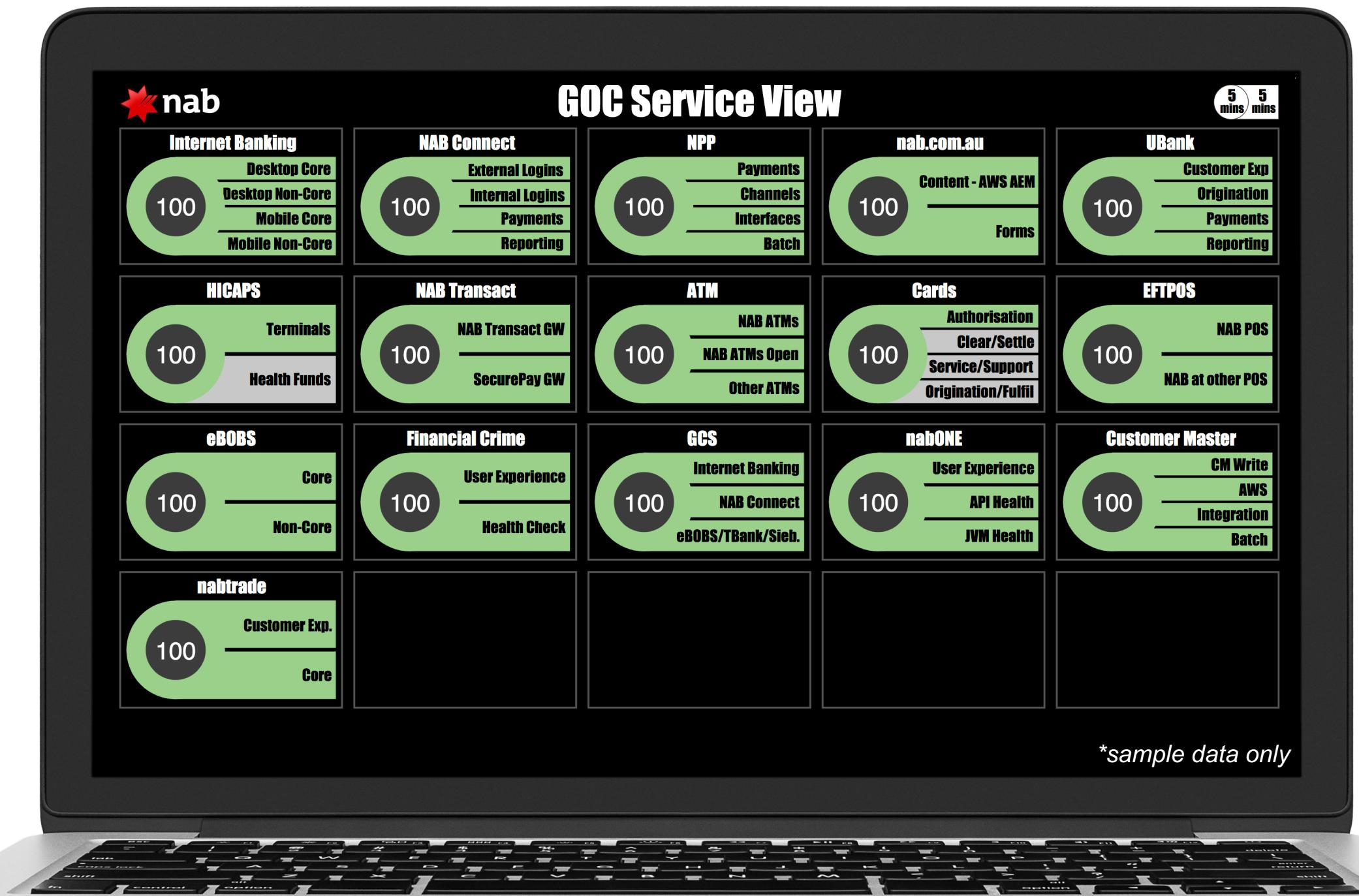




# Operational Monitoring

A consistent framework

- ▶ Define core metrics, logs and KPIs for each service and technology component.
- ▶ Publish guidance that is easy to consume and codify.
- ▶ Create patterns and provide tools to accelerate technical implementation.
- ▶ Aggregate data into Splunk.
- ▶ Automate compliance checks.



# Lessons Learned

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Supporting cloud migration with Splunk at scale



# Where are we now?

400+  
APPS  
MIGRATED

**NAB to move some core banking systems to Amazon's cloud**  
Builds three strategic platforms on AWS

**NAB builds cloud-based data lake on AWS**  
Bank leverages cloud for analytics boost

Rohan Pearce (Computerworld)  
11 April, 2018 12:56

f z in t g+ p e

**NAB reveals two-speed cloud migration strategy**

National Australia Bank Selects AWS as its Long Term Strategic Cloud Provider

Australia's largest business bank taps the world's leading cloud to help accelerate mass migration, enhance security posture, and drive digital transformation

November 29, 2018 09:00 AM Eastern Standard Time

IT'S TIME FOR CHANGE

INSIGHTS / MUST READS

NAB Is All In On Public Cloud. Here's Why.

Jordan Reckley / © December 3, 2018

# Lessons Learned

Supporting cloud migration with Splunk at scale



Create Patterns



Automate Everything



Enable Self Service



Plan Splunk Roles



Scale the Platform

# Key Takeaways

Enabling Cloud Migration in a regulated environment with Splunk

- 1. Continuous Compliance** – data aggregation, reporting and response to ensure compliance
- 2. Security Monitoring** – consistent detection across platforms
- 3. Operational Monitoring** – single view across platforms

# Q&A

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