
AWS
re:Invent
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ANT314-R

Why and how to migrate to Amazon OpenSearch Service

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How many of you have set up an OpenSearch cluster on-premises?

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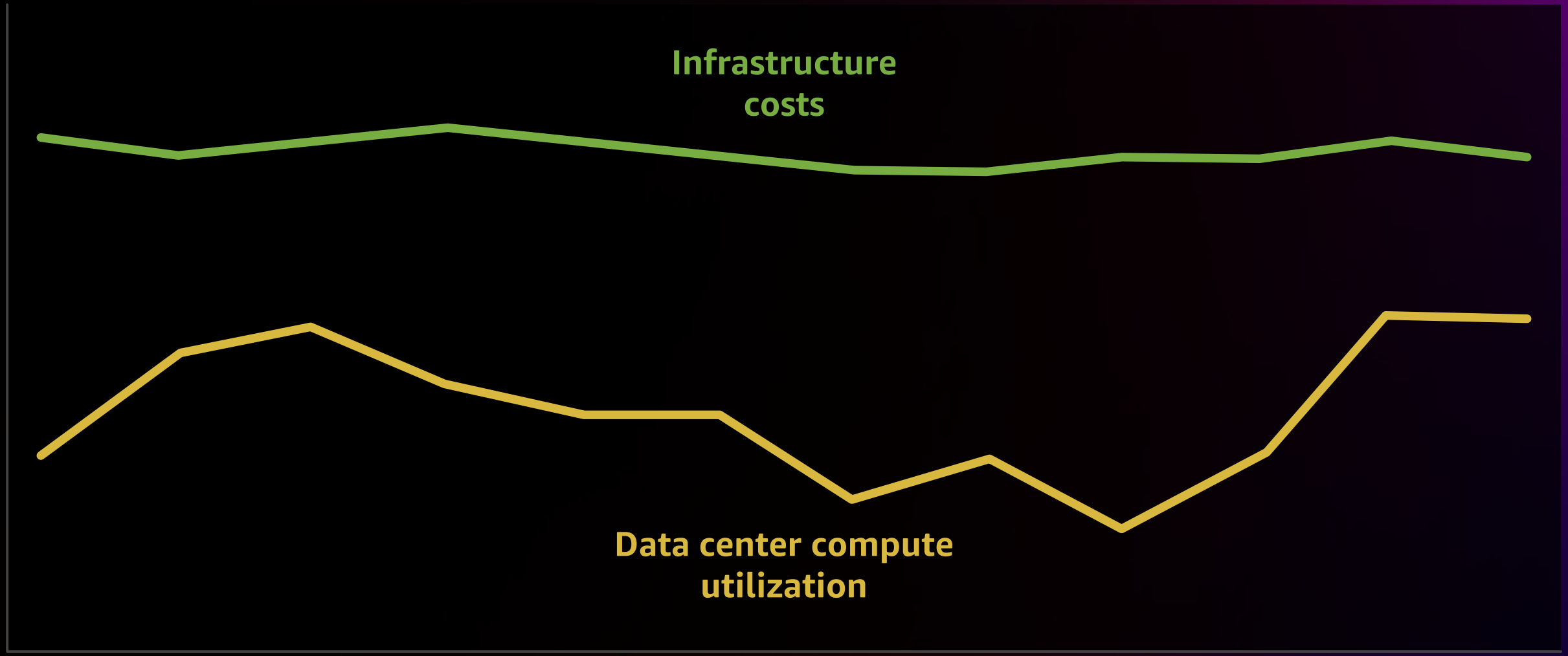
How many of you have set up an Amazon OpenSearch Service domain in AWS?

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Who loves migrations?

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Why?



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"After security and operational excellence, our top priority in AWS is customer migrations."

Andy Jassy

Amazon CEO

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Key drivers for migration



Capabilities

Upgrades

Rich set of features

Better security

Better performance

Modernization

Reliability



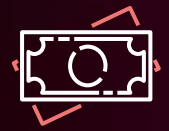
Legacy environments

Data center consolidation

Complex/costly infrastructure

Legacy skills, systems, hardware, networks

Limited scalability



Cost

Expensive hardware refresh cycle

Inability to track spending to individual or business unit

Inability to scale up/down for peak

Licensing cost

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Customers need a hero!



Amazon OpenSearch Service

Amazon OpenSearch Service securely unlocks real-time search, monitoring, and analysis of operational data.

Managed: Increase operational excellence by using a popular open-source solution

Secure: Audit and secure your data with a data center and network architecture and built-in certifications

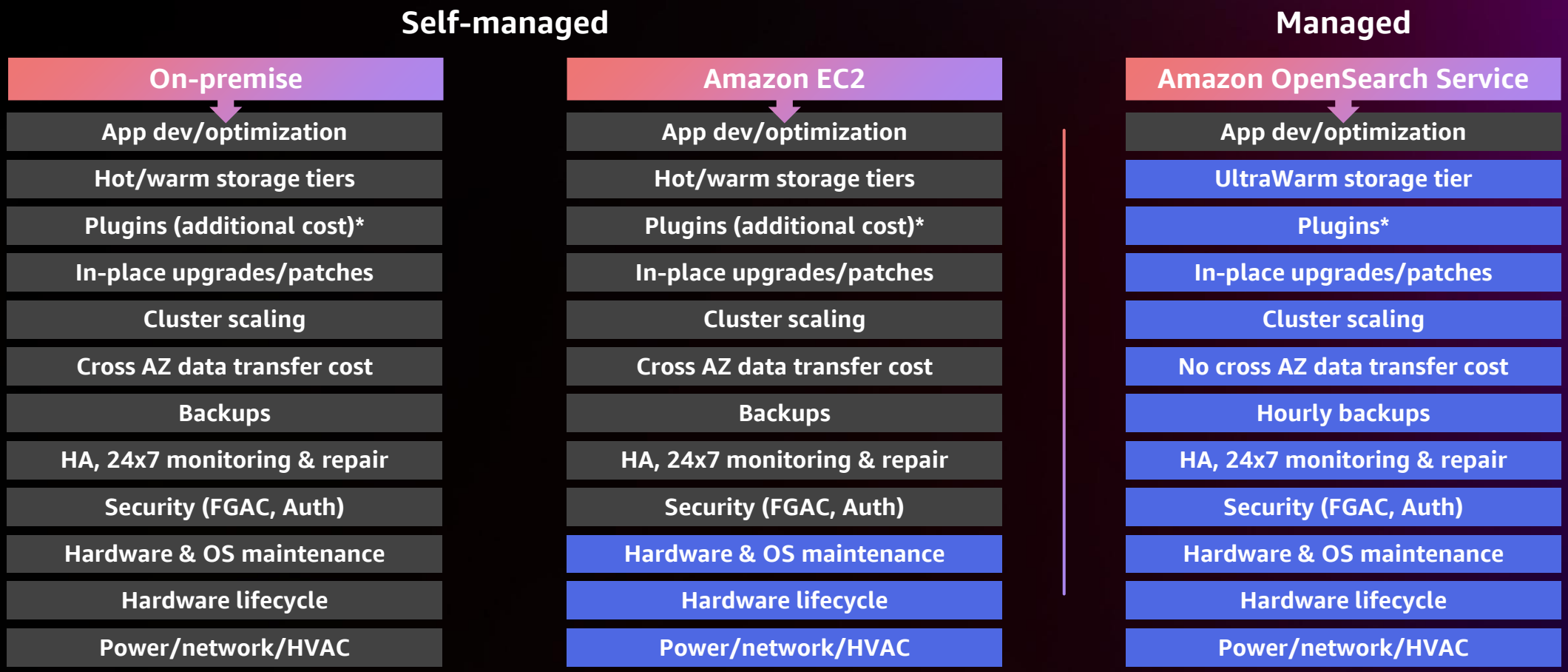
Observability: Systematically detect potential threats and react to a system's state through an open-source solution for machine learning, alerting, and visualization

Cost conscious: Optimize time and resources for strategic work

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Self-managed vs. Amazon OpenSearch Service



* SQL querying, real-time alerting, index state management, anomaly detection, machine learning

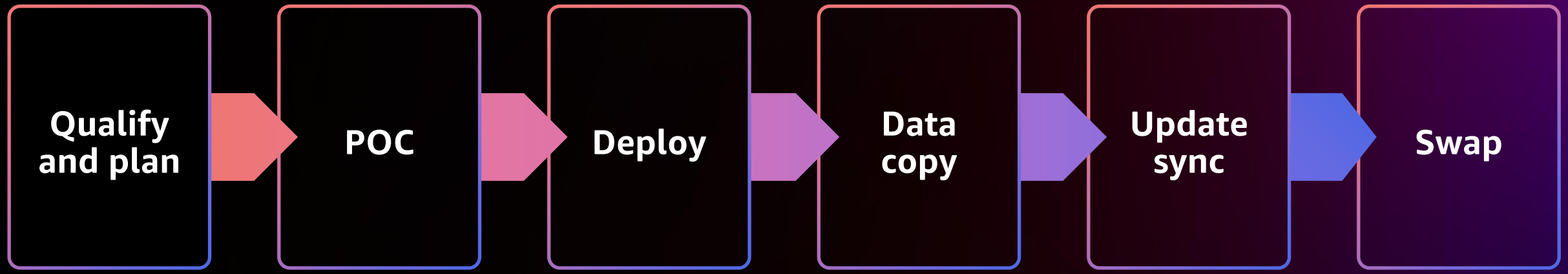
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Road to migration

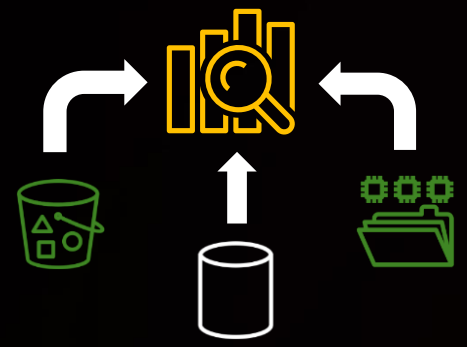
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Road to migration



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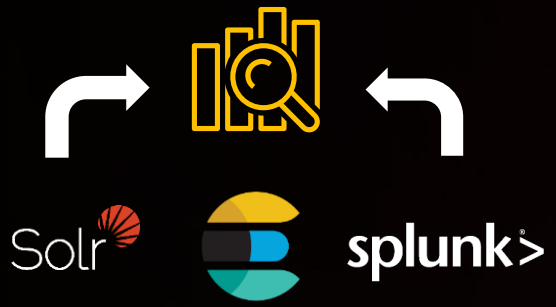
Data migration patterns



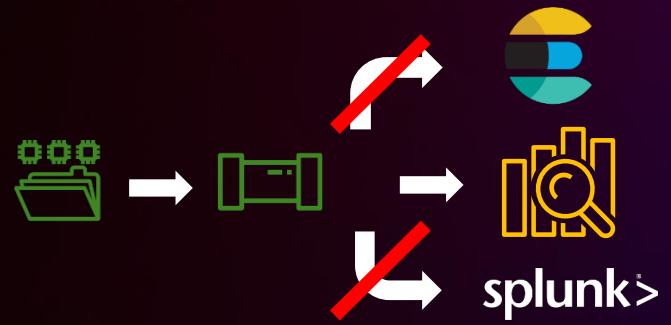
Build from document source



Build from snapshot



Build from existing search engine



Repoint ingestion pipeline

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Tooling considerations

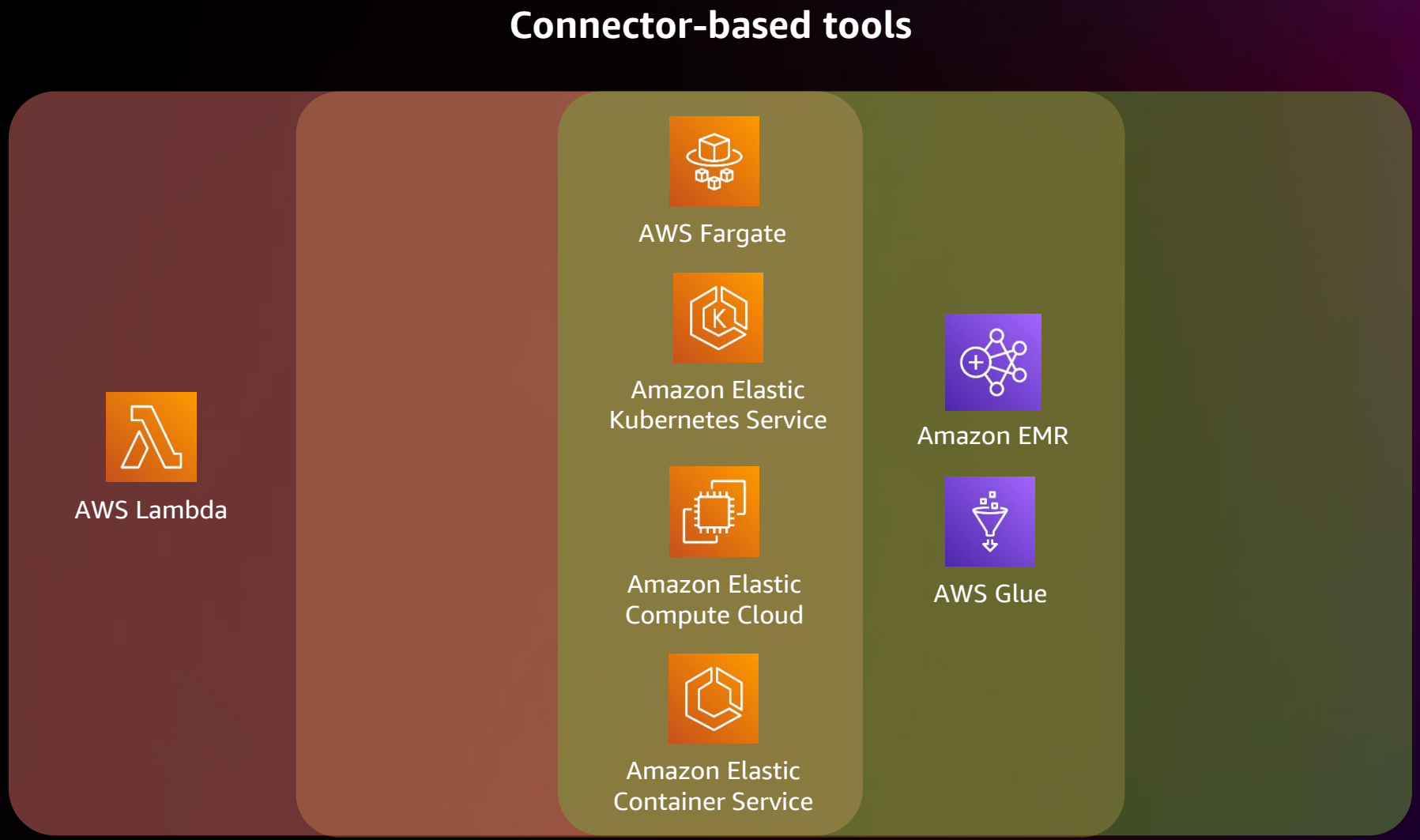
Level of effort

High	Medium	Low
Custom code	**Connector-based tools**	**Purpose-built tools**
You build You deploy You manage	You configure You deploy You manage Usually open source	Managed service or AMI you deploy and manage Data movement scripts

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Migration tooling—common services used



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Capacity planning

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Capacity planning for migration



Log analytics/observability

Volume of RAW data per day?

How many data sources/formats?

Retention policies (hot/warm/cold)?



Search

Volume of RAW data?

Growth of RAW data + updates?

Number of replicas?

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Customer case study

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Pinterest uses observability to monitor and issue alerts

Challenge

- Cost-effective, scalable solution for log analysis
- Handle growing data volume without spiraling costs
- Support for Kibana, which Pinterest's engineers already knew

Solution

- Amazon OpenSearch Service modernized log analytics

Benefits

- Scale daily log search and analytics from 500GB to 1.7TB
- Reduced cost by 30%, and expected to rise to 40–50% while ingesting 2.2TB of data per day
- Monitor and issue alerts for 20 new software deployments a day with 1 person managing the pipeline



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How to start the journey

1. AWS Immersion Day
2. Data lab
3. Partners
4. ProServe

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What to do next



Attend Dow Jones and 3M on Amazon OpenSearch Service **(ANT219)**

Sign up for migration assessment and assistance



Read more customer success stories



Find a partner to help

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Thank you!



Please complete the session survey in the **mobile app**

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