



AWS
re:Invent

A R C 2 1 7 - R

Operating and managing hybrid cloud on AWS

Tom Laszewski

Enterprise Technologist
Amazon Web Services

Anuj Dewangan

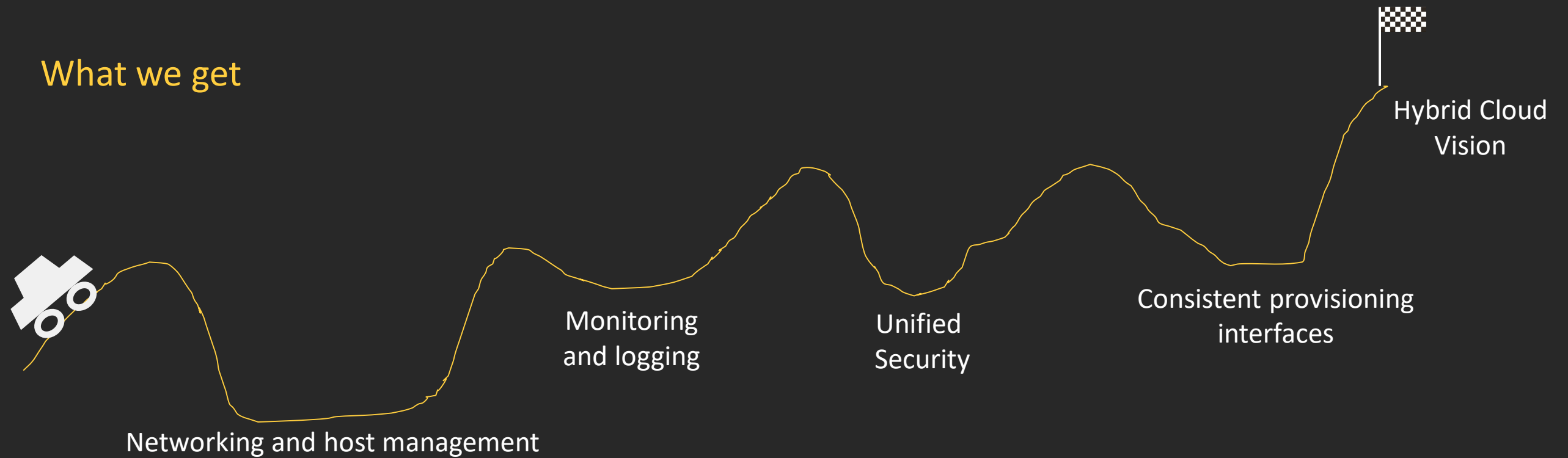
Sr. Solutions Architect
Amazon Web Services

Journey to the hybrid cloud...

What we expect



What we get

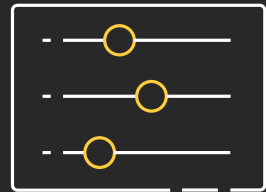


Building a hybrid cloud is hard!

Hybrid architecture goals



Operational
consistency



Simple to
control,
manage, secure



Build once,
deploy anywhere

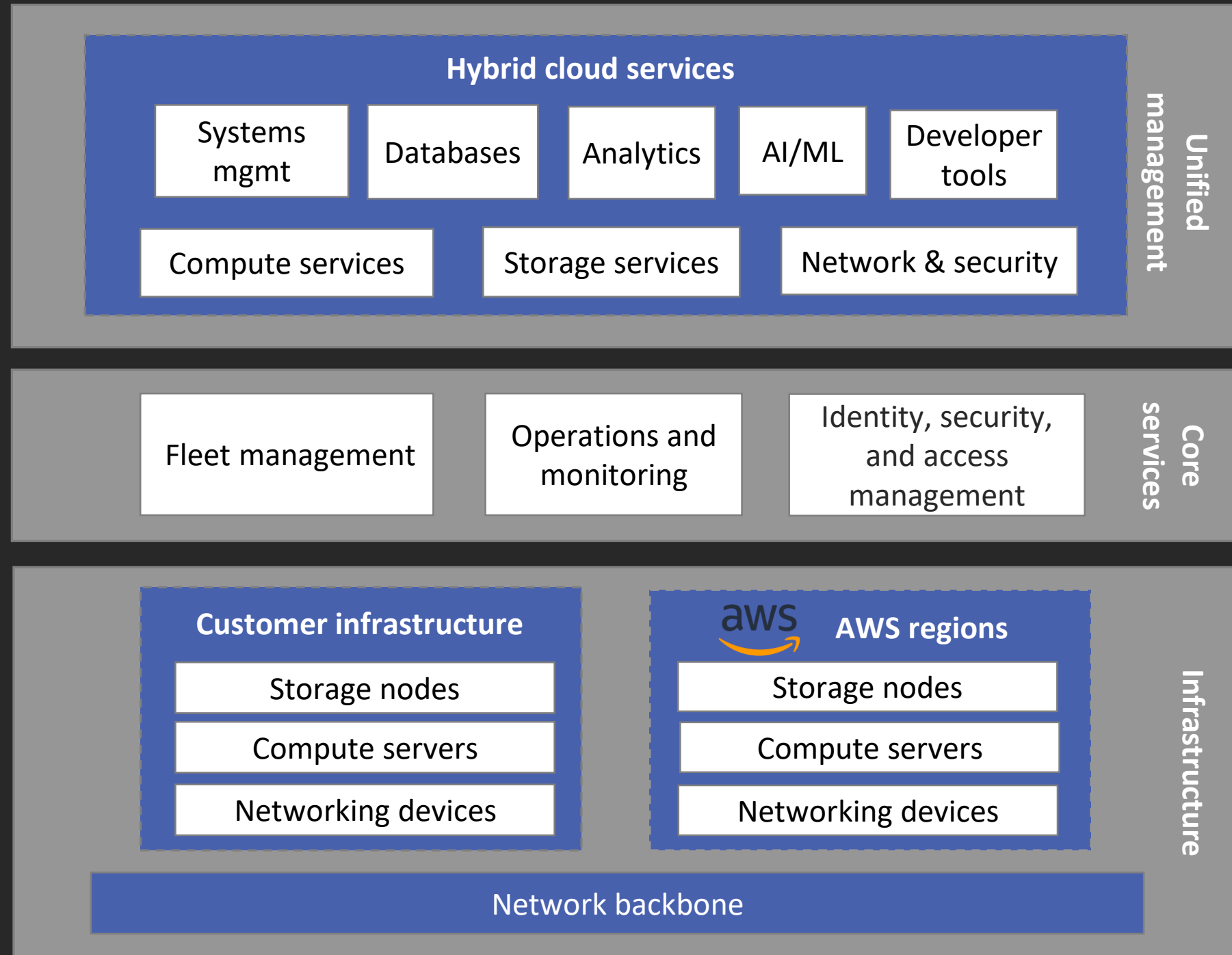


Enterprise-class
app SLA



Existing skill sets
and tools

Operations and management framework



Fleet management

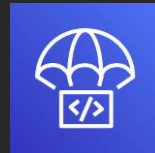
- **Host management** for on-premises compute servers, networking, and storage devices
 - **Inventory management, software installation and updates, metrics collection**
- **Management interfaces for provisioning and monitoring** new instances, storage, and configurations



AWS Systems Manager

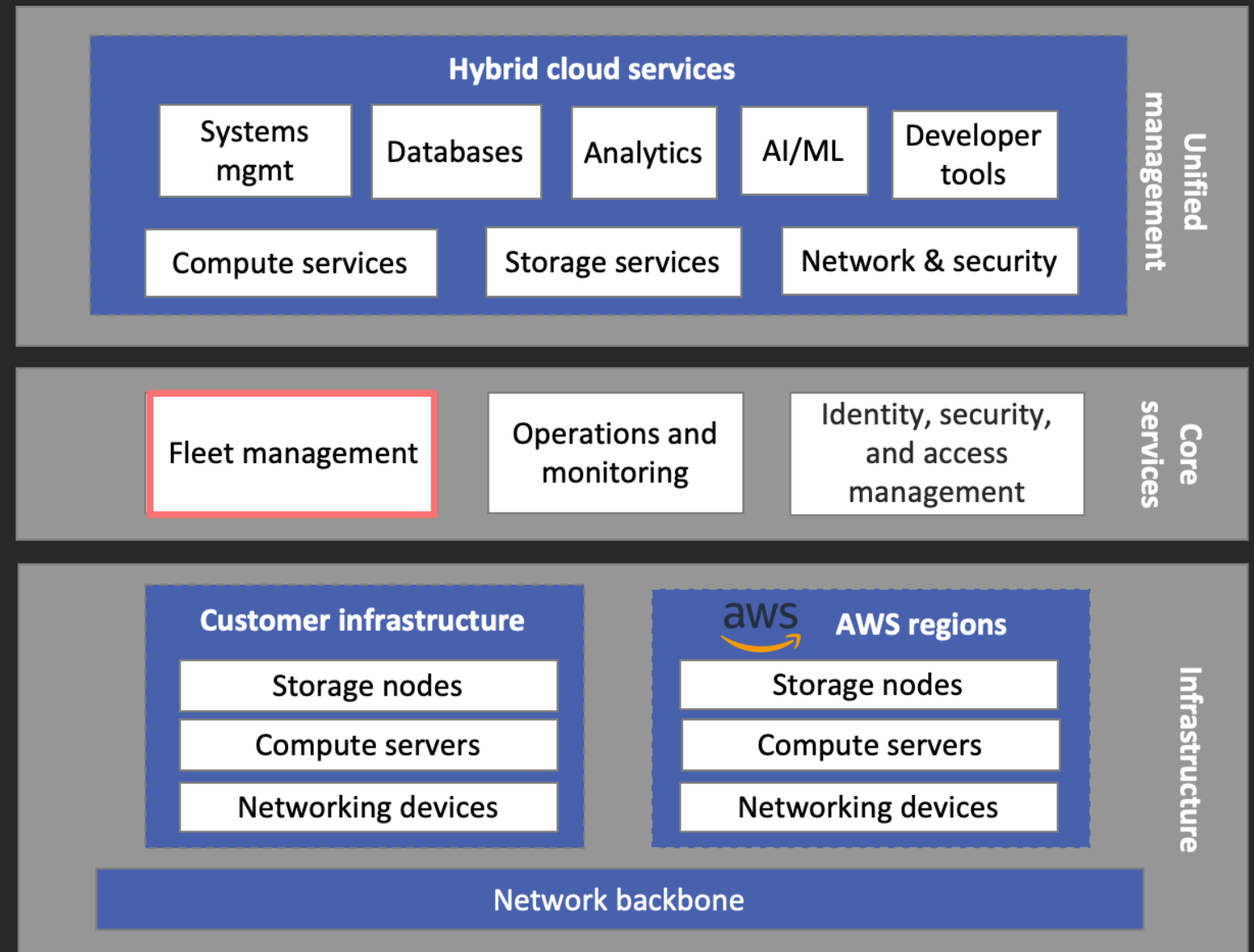


AWS OpsWorks



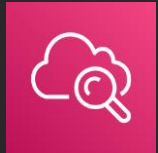
AWS CodeDeploy

vmware®

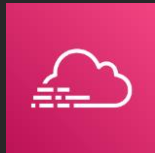


Operations and monitoring

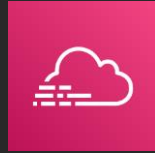
- Unified metrics, monitoring, alerting, logging, and auditing for the full stack



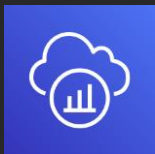
Amazon CloudWatch



AWS CloudTrail



AWS CloudTrail



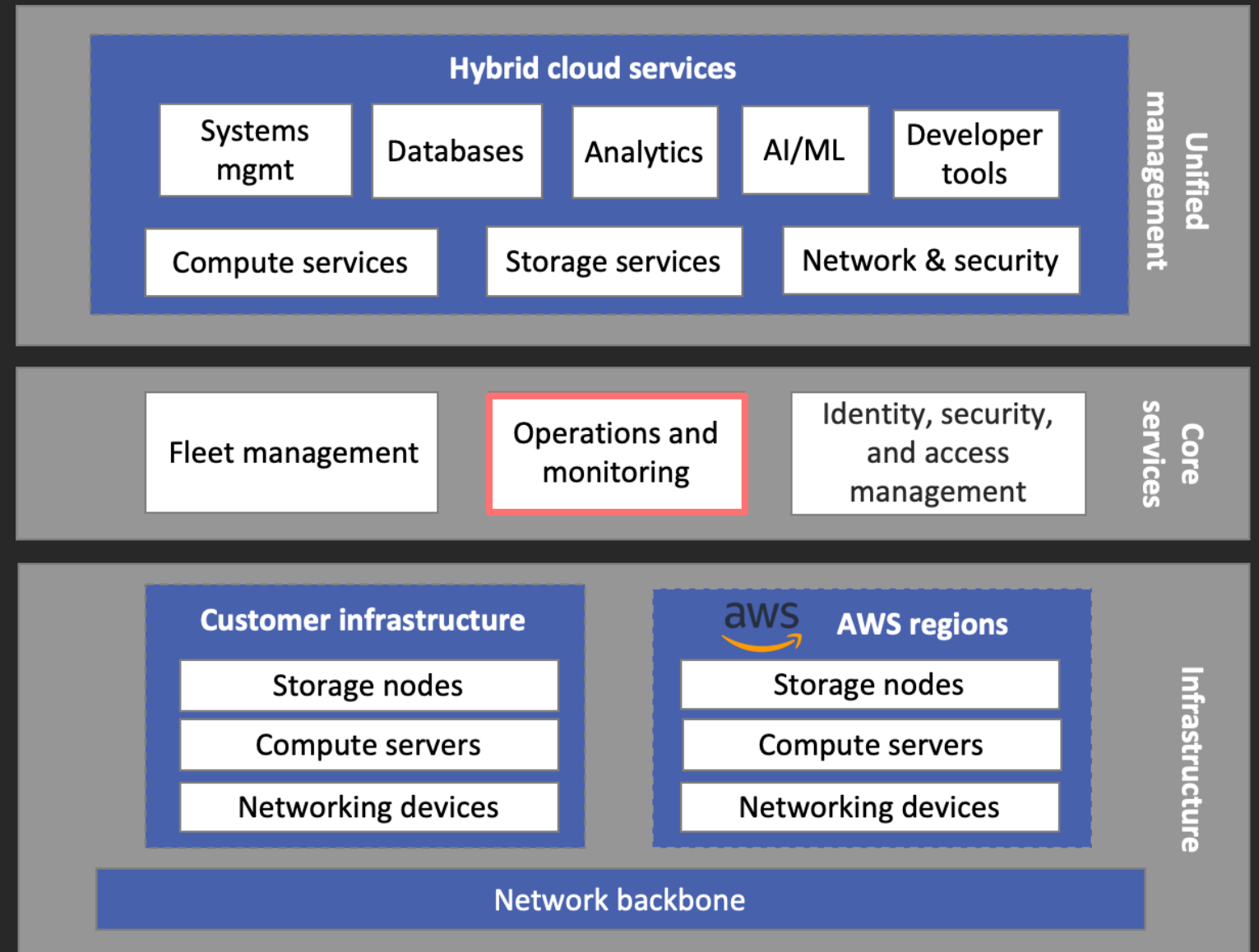
AWS X-Ray



Flow logs



Traffic Mirroring

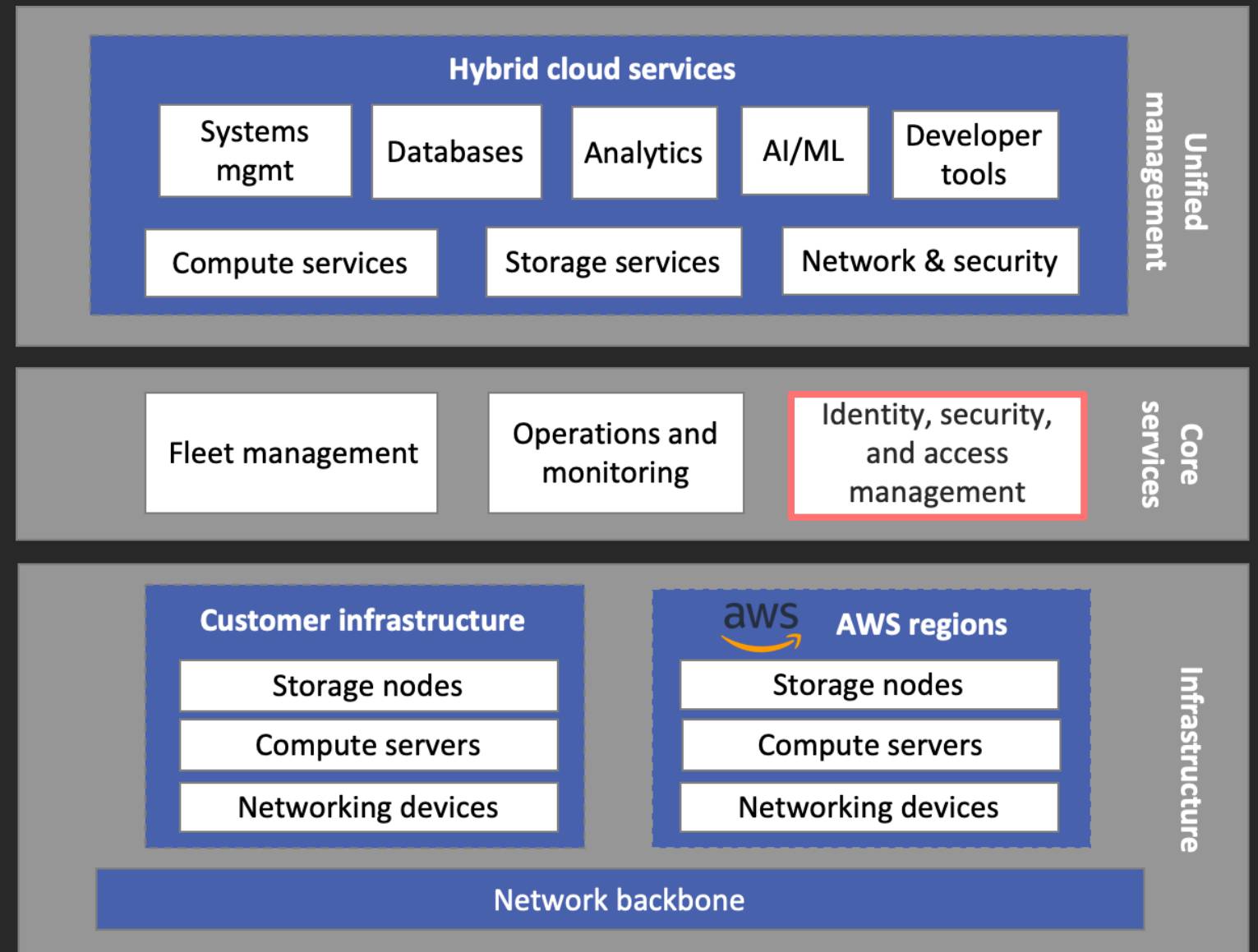
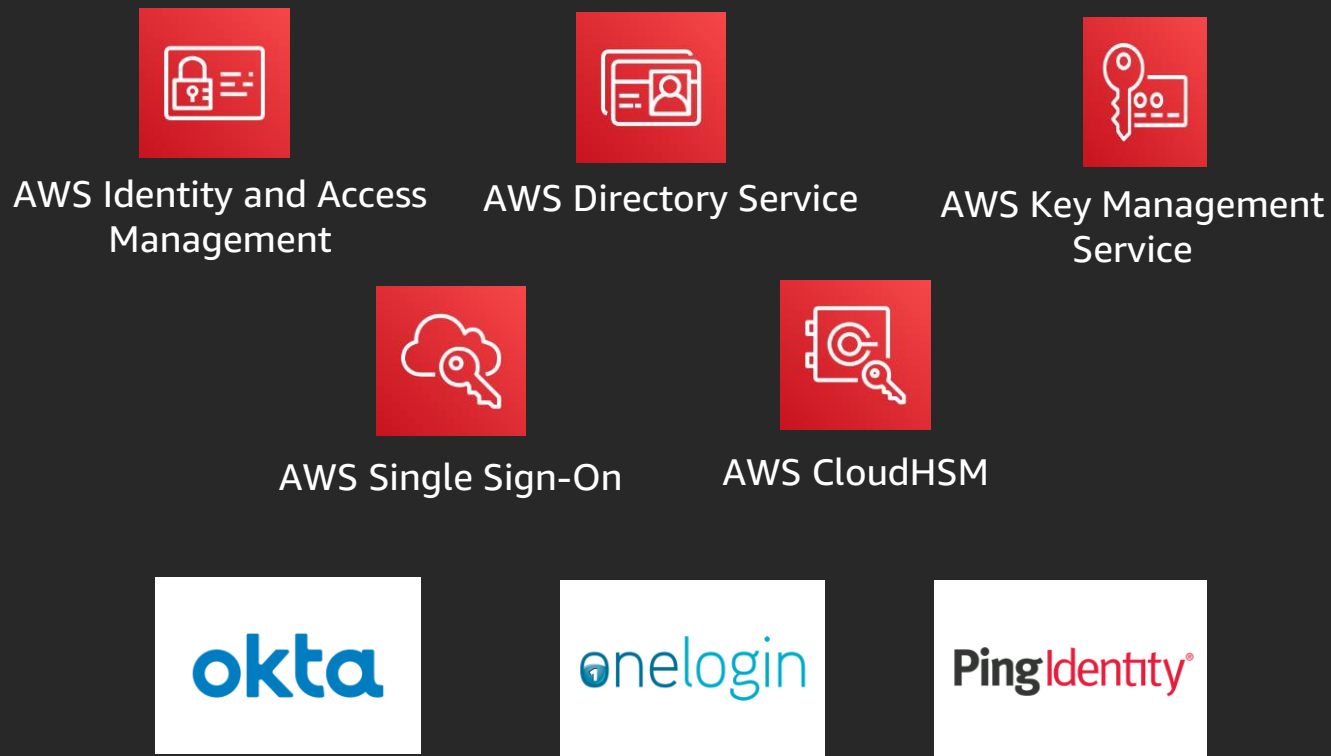


Operations and monitoring: Partner solutions



Identity, security, and access management

- **Unified identity, security and access** for all entities including services and users
- **Key management**



Hybrid cloud services

- Provide unified **provisioning, monitoring, and operating** interfaces for hybrid cloud computing
- Multi-tenancy, inventory, object configurations

Compute service:

- Instance inventory, launch and runtime configurations, images



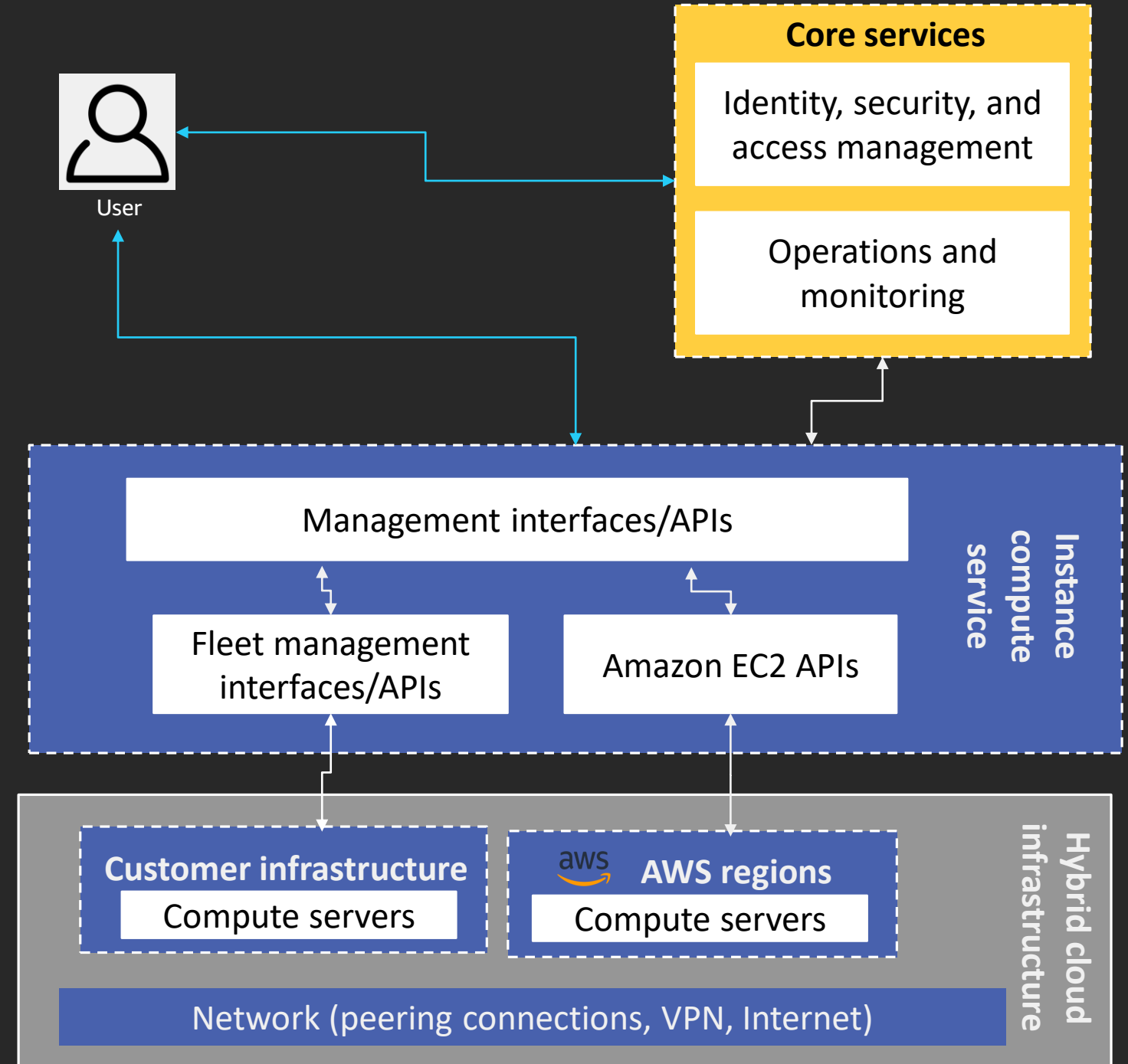
AWS Outposts



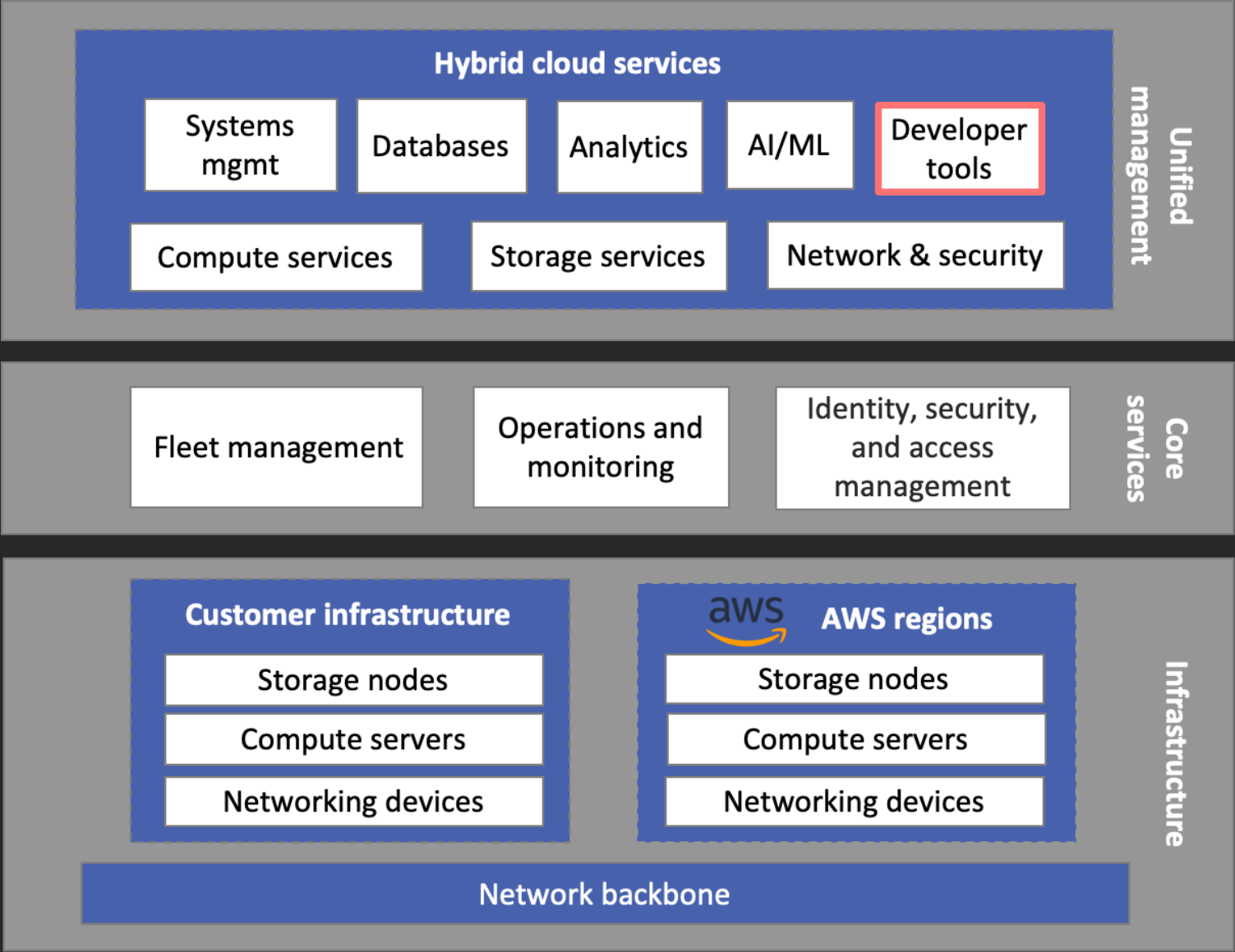
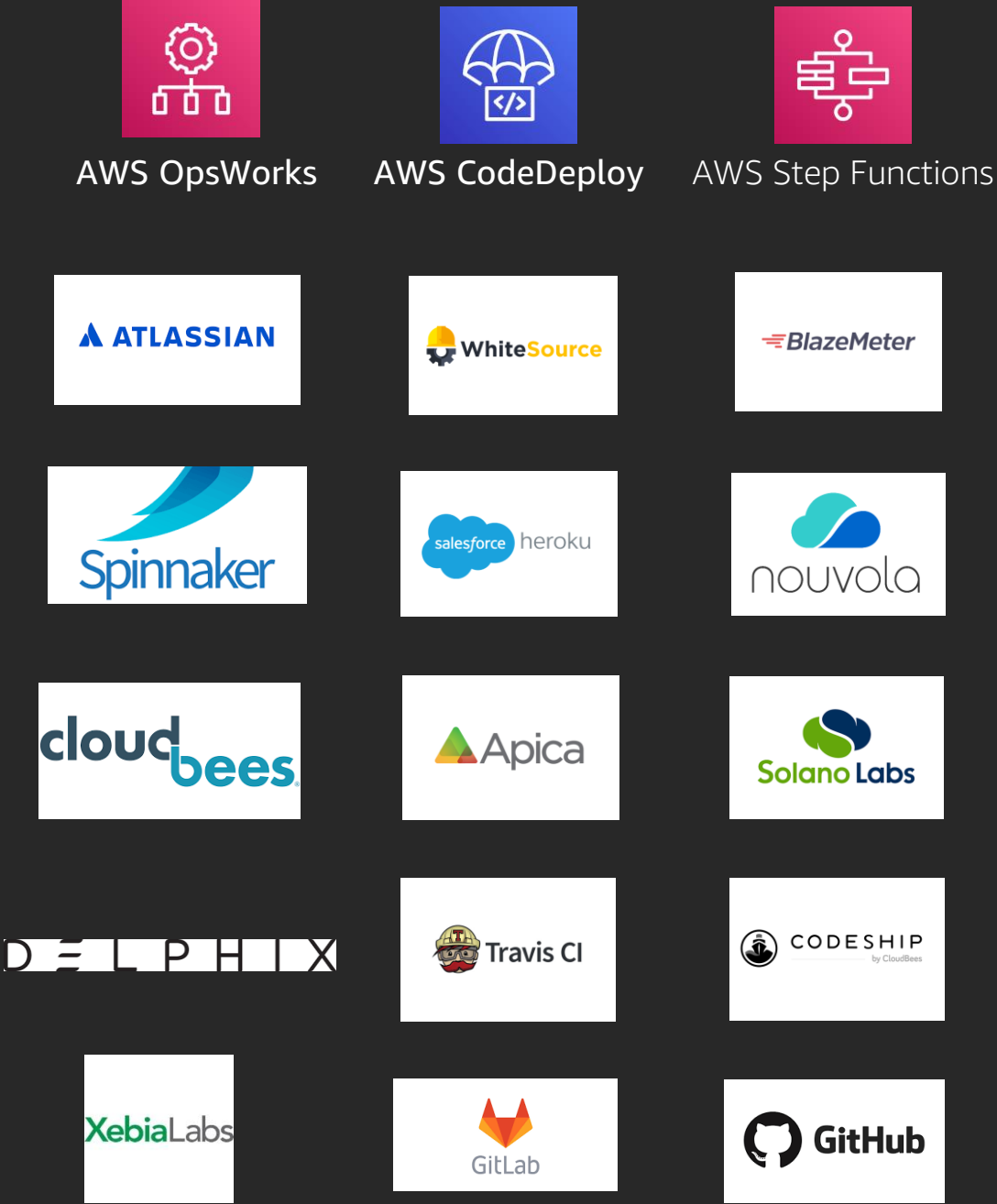
VMware Cloud on AWS



EUCALYPTUS



Developer tools



Case studies

MassMutual: Governance, risk, and compliance

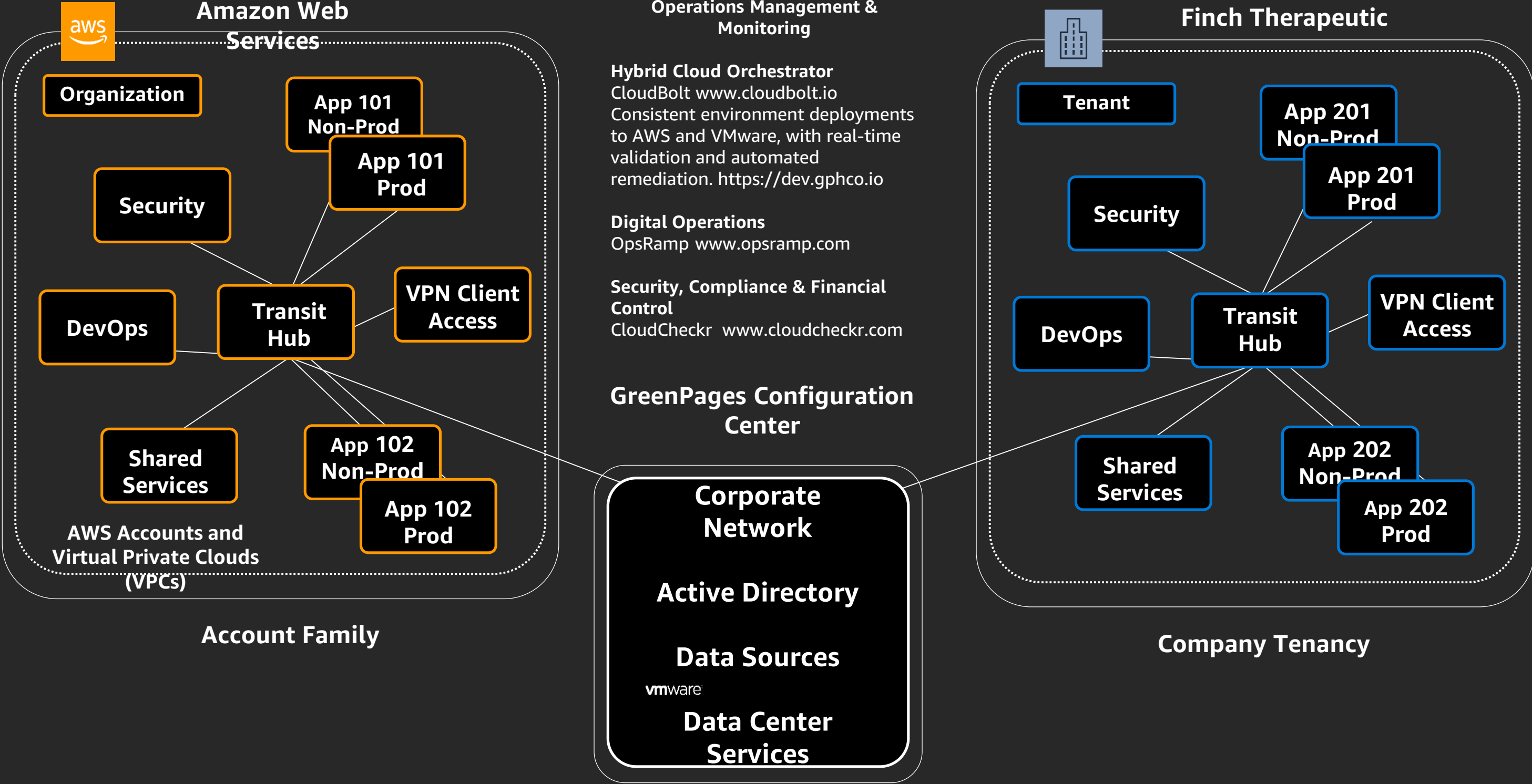
AWS tools

- AWS CloudTrail
- AWS Config
- AWS Trusted Advisor
- Amazon CloudWatch
- AWS Systems Manager
- AWS Lambda
- AWS KMS
- AWS Certificate Manager
- AWS CloudFormation

Other tools

- Splunk
- Ansible
- Cloud Custodian
- Securonix
- Carbon Black
- QAS
- Qualys
- Symantec
- Okta

GreenPages - Cloud Xcelerator Platform



AWS hybrid solutions

Same AWS infrastructure & services on premises

AWS Outposts



AWS-designed, **AWS Nitro infrastructure** for the *same* security and performance

Automatically managed and **updated** as part of AWS Regions

Single point of service and **support**

- Same infrastructure
- Same programming interface
- Same monitoring & operations
- Use existing skillset

Available in two options:

- **Native AWS**
- **VMware Cloud on AWS**

Frequently Asked Questions

- **Why** do customers need a Hybrid Cloud?
- Do you see hybrid cloud as an **temporary solution** while customers migrate to AWS?
- Do you have **customers** deploying Hybrid Cloud with AWS?
- What are AWS thoughts on **multi-cloud**?
 - Does the operations and management framework apply to multi-cloud?

Related sessions

CMP302-R AWS Outposts: Extend the AWS experience to on-premises environments

CMP337-R AWS Outposts: Build for low latency and local data processing

ENT306-R Getting hands on with VMware Cloud and native AWS service integrations

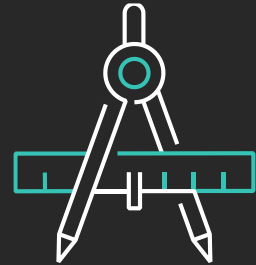
ENT212-S Transform your business with the VMware & AWS hybrid cloud

ENT318-R Building hybrid cloud architectures with VMware and AWS

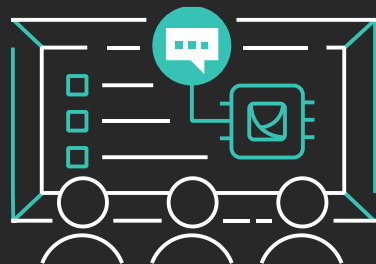
CMP320 How Dropbox leverages hybrid cloud for scale and innovation

Learn to architect with AWS Training and Certification

Resources created by the experts at AWS to propel your organization and career forward



Free foundational to advanced digital courses cover AWS services and teach architecting best practices



Classroom offerings, including Architecting on AWS, feature AWS expert instructors and hands-on labs



Validate expertise with the **AWS Certified Solutions Architect - Associate** or **AWS Certification Solutions Architect - Professional** exams

Visit aws.amazon.com/training/path-architecting/

Thank you!

Tom Laszewski
tomlasz@amazon.com

Anuj Dewangan
anujddew@amazon.com



Please complete the session
survey in the mobile app.