

FPT CLOUDSUITE (v1.3.1)

Digital Suite
For
Cloudification



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FPT CloudSuite Overview

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FPT CloudSuite Components

- Cloud Lab
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Top Digital Transformation Trends



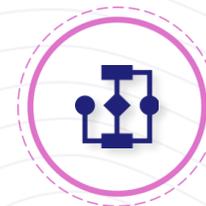
01. Connecting and personalizing the customer experience

02. Unlocking and analyzing data for data-driven business



03. Maximizing the value of AI and machine learning

04. Developing a multi-cloud strategy

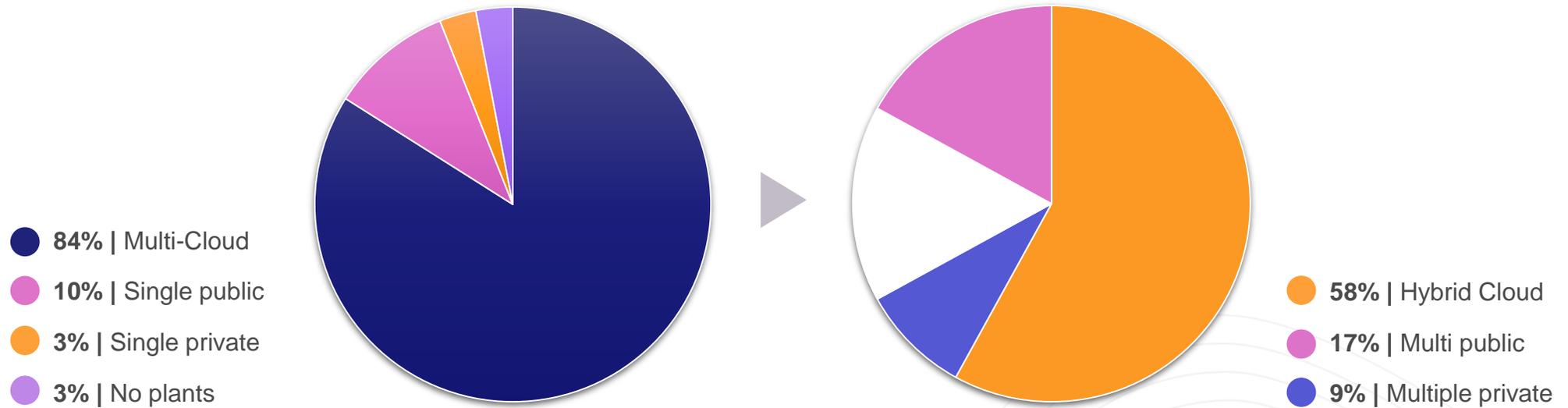


05. Fueling business performance with APIs

Multi-Cloud Is Not Just Trend

The Majority Of Large Enterprises Use Multiple Clouds

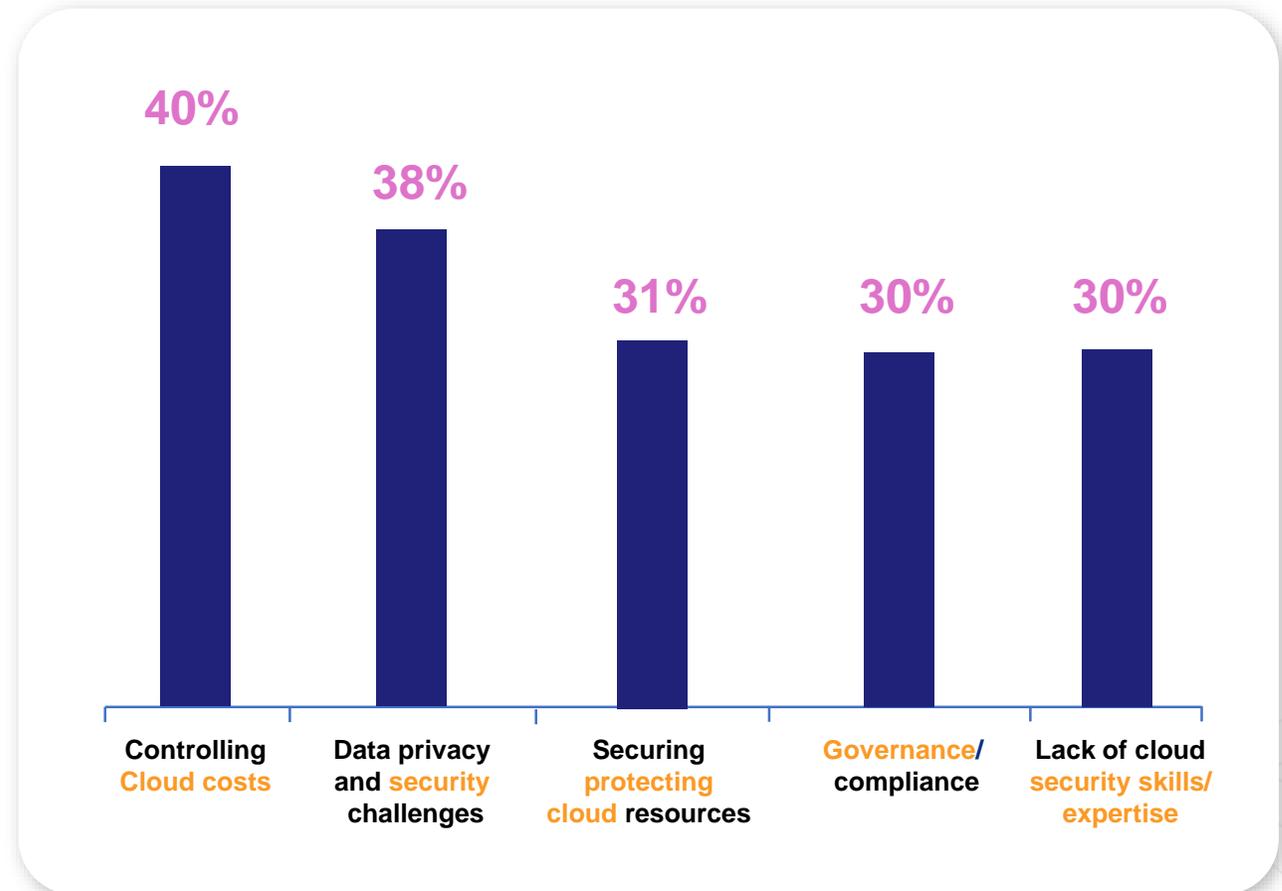
Enterprise Cloud Strategy
1000+ Employees



Top 5 Challenges to Public Cloud

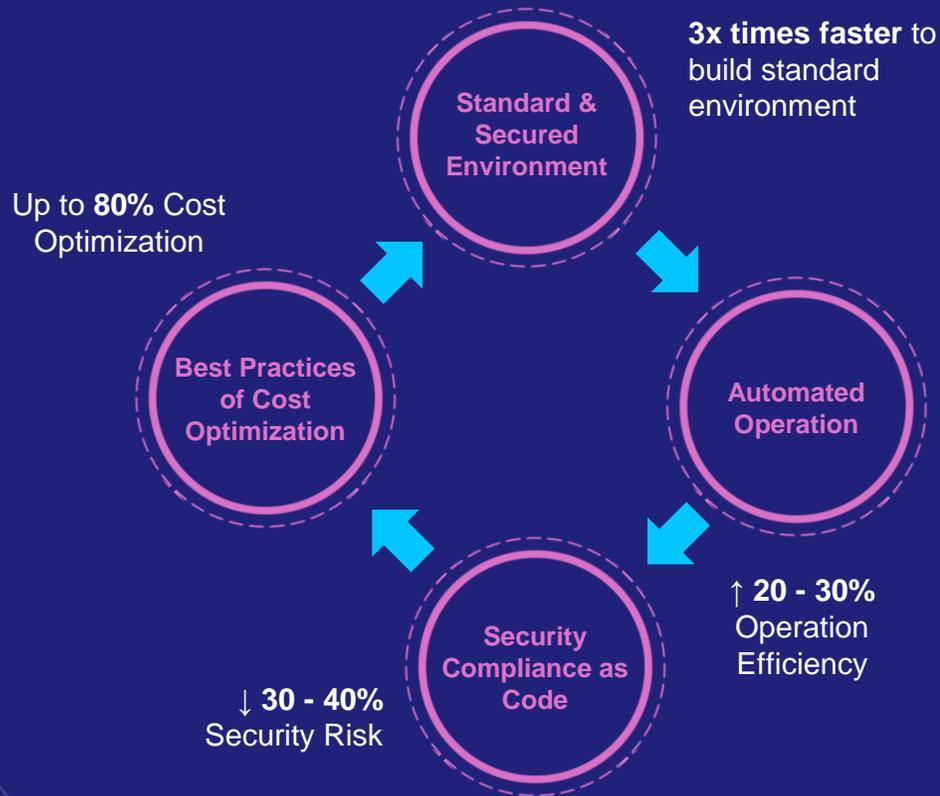
Top 5 Challenges to Public Cloud

*IDG 2020 Cloud Computing Study



FPT Cloudsuite Overview

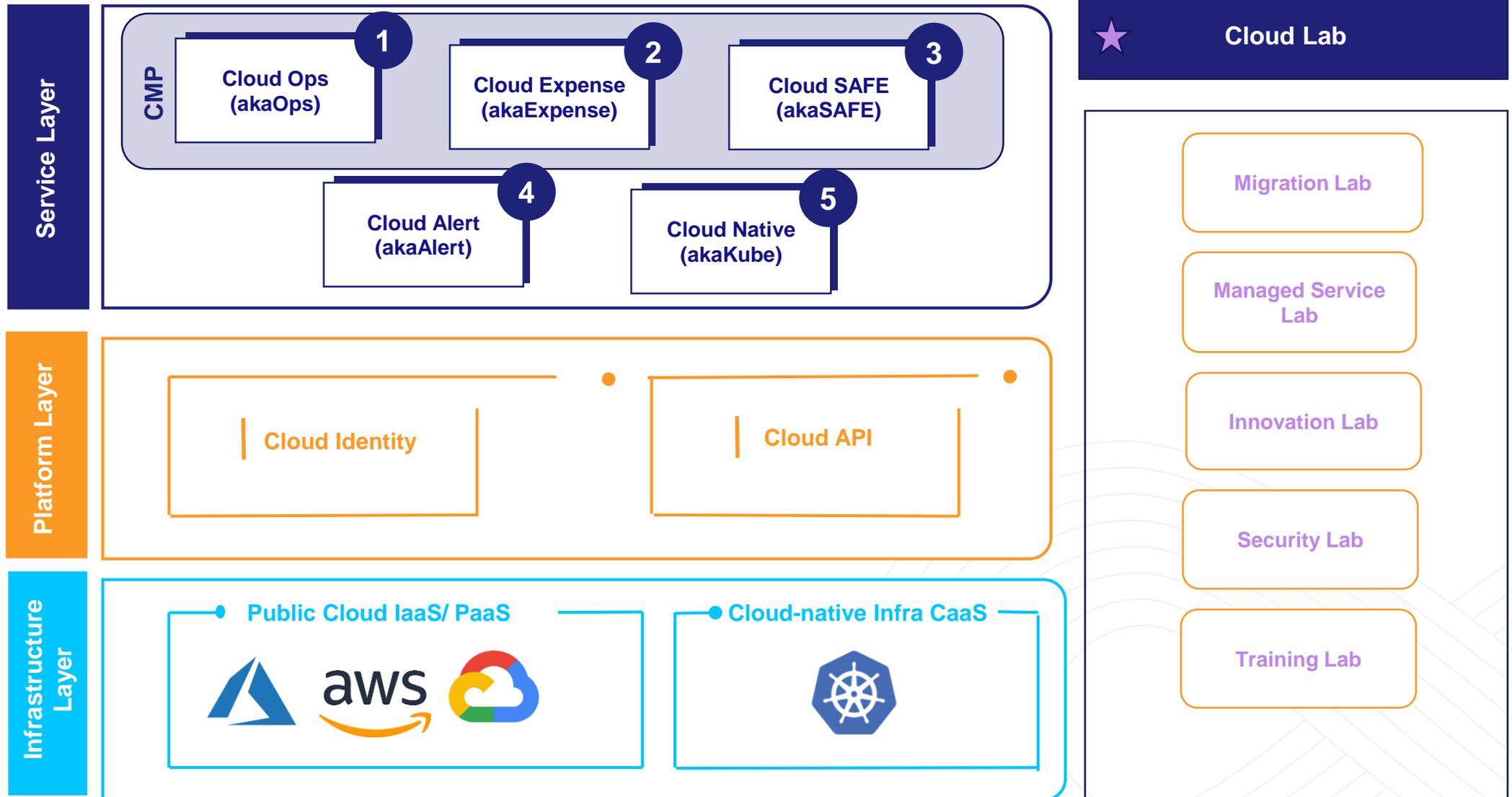
FPT CloudSuite – Our Accelerator for Cloud Journey



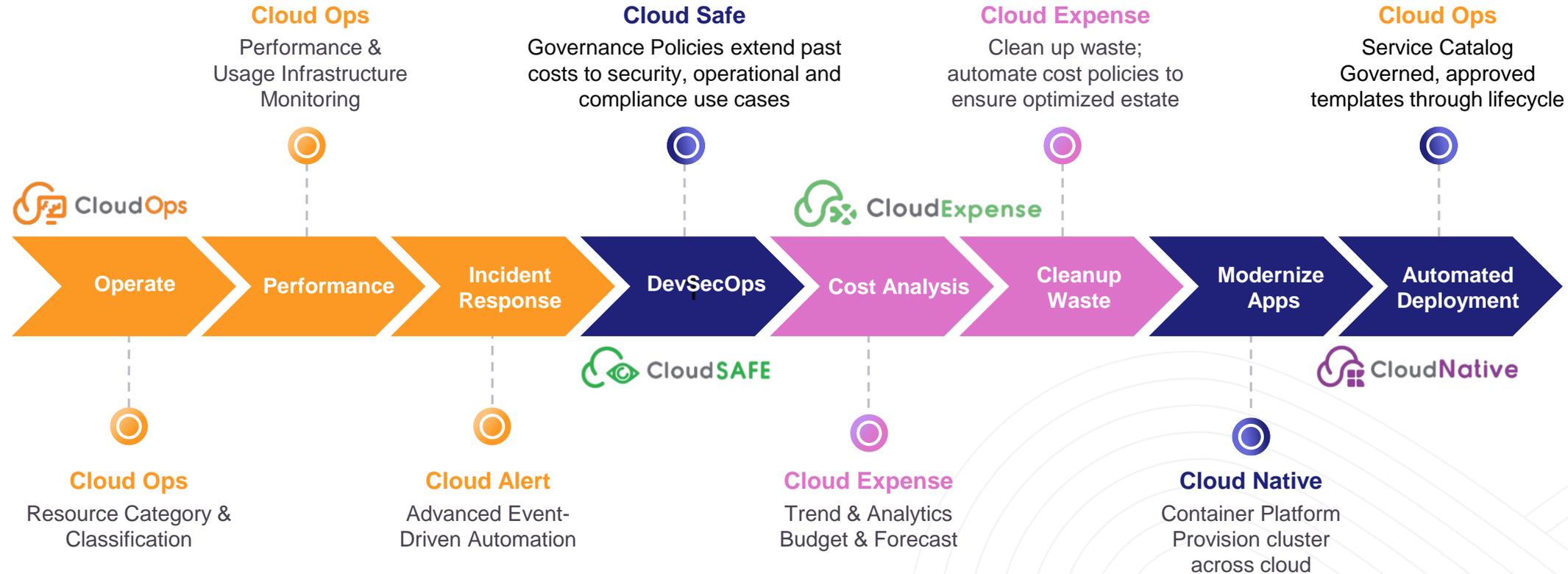
- <https://dxcloudsuite.io>
- FPT CloudSuite is used for FPT Cloud professional services and Cloudification.
- FPT CloudSuite is framework, best practices and accelerator for Cloud journey.
- FPT CloudSuite provides Self-service utilities to help you from finding relevant solutions to operate and optimize your multi-Cloud environment.



FPT CloudSuite – Modularization



FPT CloudSuite – Optimization to Automation



FPT CloudSuite - Differentiators

Features	Cloud Suite	Others
• Single pane of glass across multiple cloud vendors	AWS, Azure, GCP ✓	AWS, Azure, GCP ✓
• Bundle with Cloud Managed Service, Cloud Pro Service	Yes ✓	No
• All-in-one CMP with Ops, Expense, Security	Yes ✓	Yes ✓
• Hierarchical Organization Structure (Company/Cost Center/BU)	Yes ✓	No
• Easy to integrate with ITSM compliance standard	Yes ✓	Yes ✓
• Number of build-in compliances for industry security assessment	10+ Support a new standard/a month ✓	8+ Support a new standard/a month ✓
• Number of build-in compliances for Cost Optimization	40+ ✓	20+ ✓
• Flexible pricing model (SaaS / Software Pack)	Yes ✓	No
• Easy customization	Yes ✓	No

Values We Can Bring



FPT Cloudsuite Components

Cloud Lab - Starting Point Of Cloud Journey

	AWS	Azure	GCP
Cloud Migration/ Transformation	<ul style="list-style-type: none"> VM Migration With CloudEndure Oracle Database To Amazon Aurora MySQL SQL Server Database To Amazon Aurora MySQL Amazon RDS for Oracle Database to Amazon Redshift On-Premises NFS to AWS DataSync & Amazon File Gateway Git Repository To AWS CodeCommit Rehost whole data center 	<ul style="list-style-type: none"> Oracle to Azure Database for PostgreSQL SQL Server to Azure SQL Database MySQL to Azure Database for MySQL MySQL to Azure SQL Database Cloud to Cloud VM Migration Rehost to support Company Splitting Zero downtime Migration from Sybase Migrate data to Azure storage Migrating SAP HANA efficiently to Azure 	<ul style="list-style-type: none"> Migrating A VM Image Into Google Compute Engine
Cloud Innovation	<ul style="list-style-type: none"> Analyze Big Data With Hadoop 	<ul style="list-style-type: none"> Modern Data Warehouse 	
Cloud Managed Services	<ul style="list-style-type: none"> Centralized Log Monitoring With Amazon Kinesis Fully-Containerized Application Stack In Kubernetes 	<ul style="list-style-type: none"> Hybrid Cloud environment Business continuity and Disaster recovery 	



30+

Reference Solutions



20+ AWS



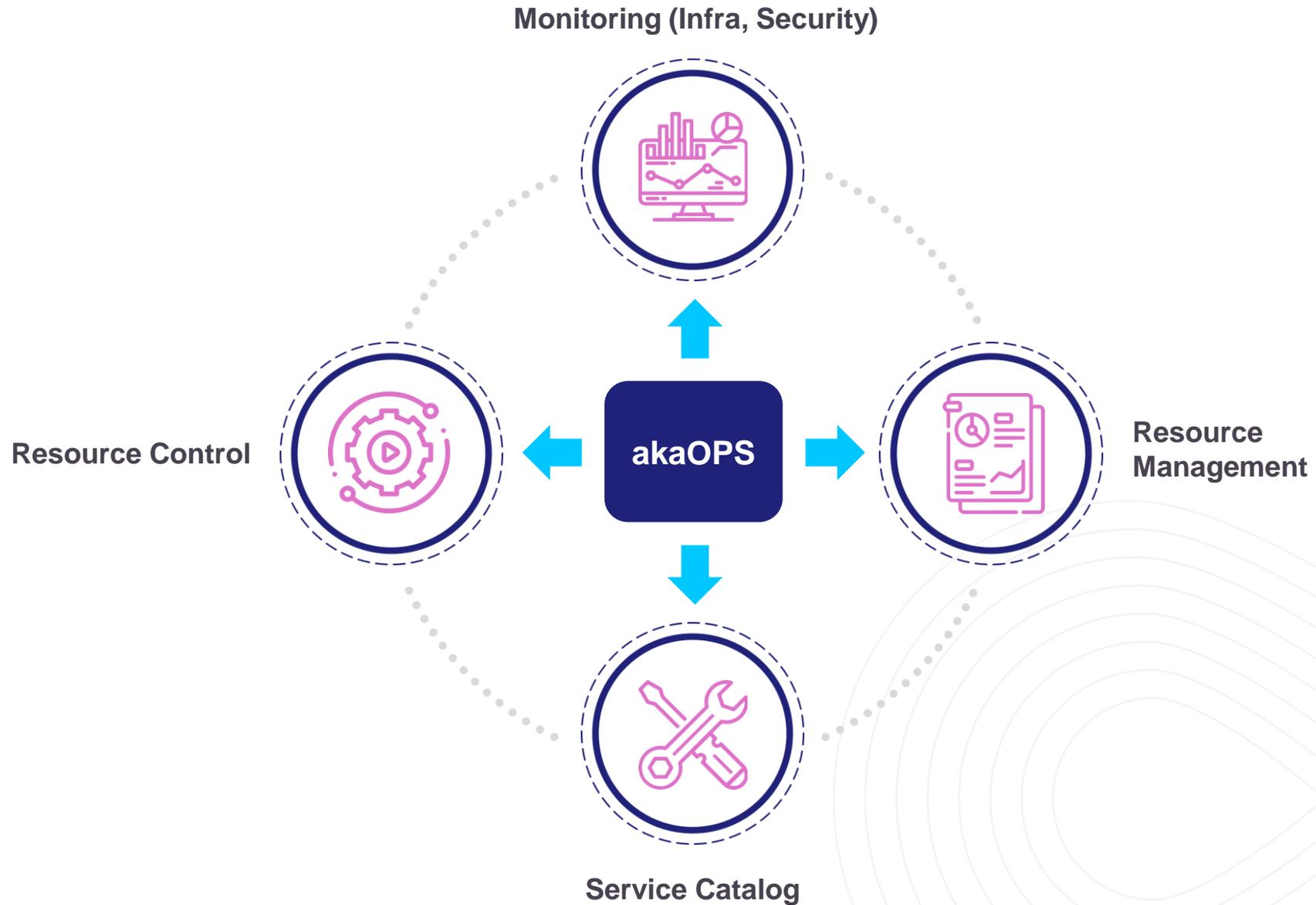
10+ Azure



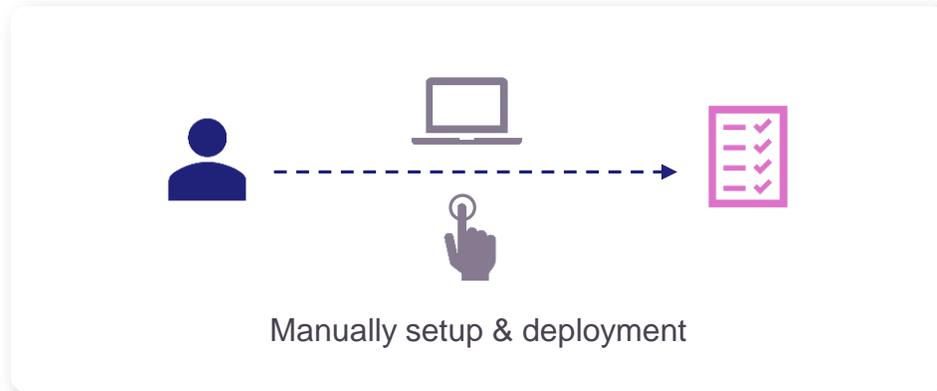
01 GCP

- AWS & Azure & GCP
- Database migration
- VM Lift & Shift
- Cloud operation and optimization
- Cloud innovation (BI, Big Data, Analytics, AI)
- Cloud security & compliance
- Domain specific biz cases

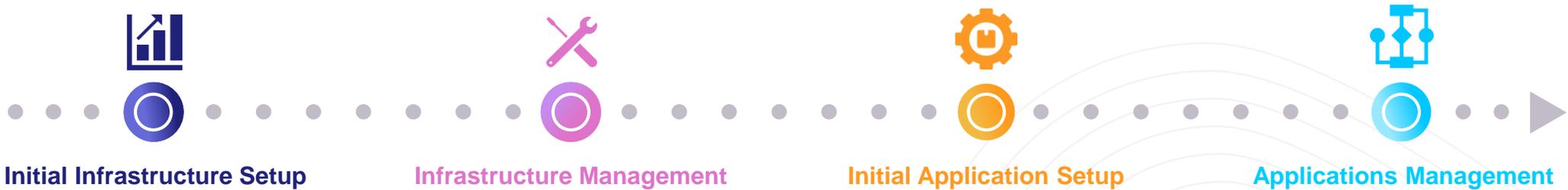
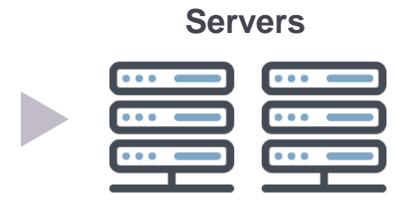
Cloud Ops - Performance & Usage



Cloud Ops - Automated Deployment



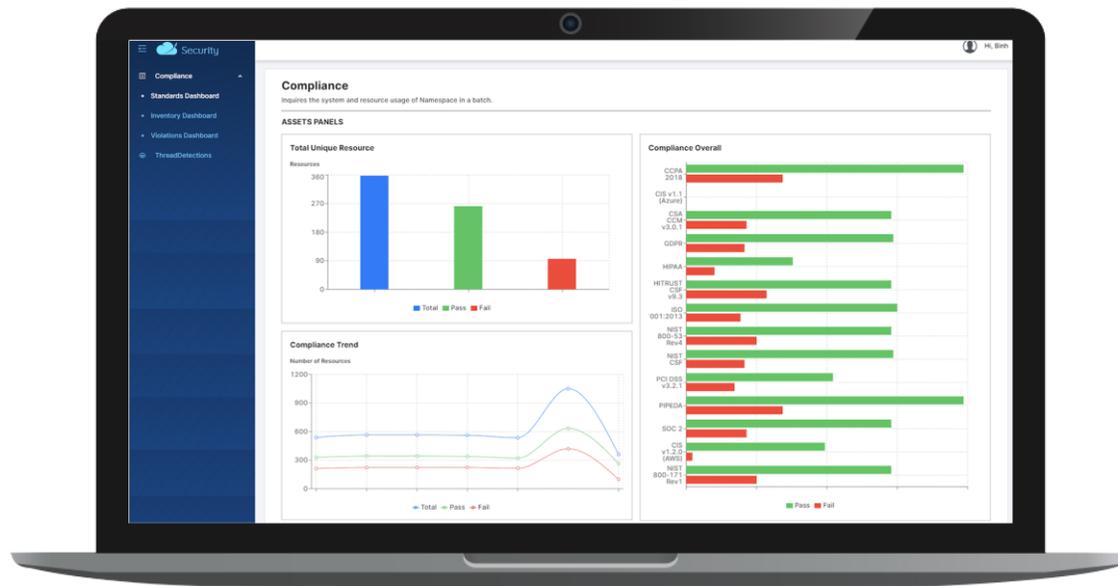
- Setup servers
- Configure networking
- Create route tables
- Install software
- Configure software
- Install database
- Deploy applications/services
- Manage applications/services



- ✓ Consistency across environment
- ✓ Unreliability
- ✓ Hard to audit
- ✓ Low human resources cost
- ✓ Less effort and time
- ✓ Less human errors possible

Cloud SAFE – Security Compliance

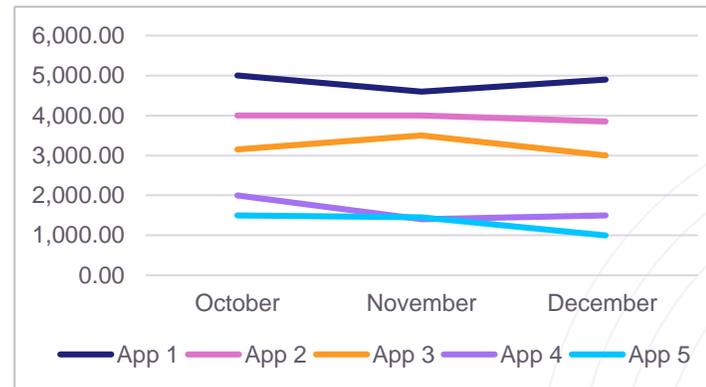
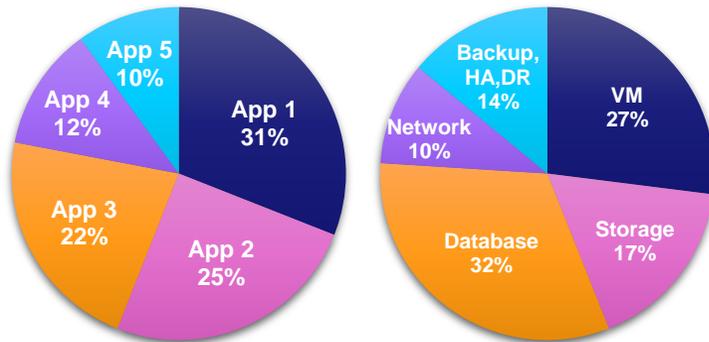
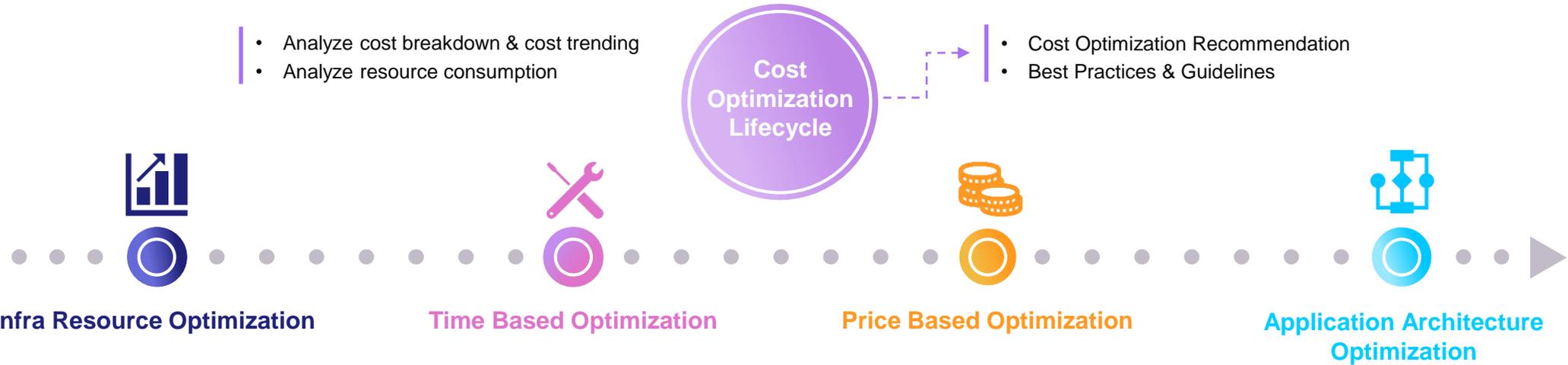
Cloud SAFE (akaSAFE) provides features to simplify and enforce security governance by automating and bring security policies to be visible to every parties in organization.



Compliance	Policies	Coverage
HIPAA	82	100% for Azure & AWS
HITRUST	130	
NIST	151	
CSA	136	
SOC 2	141	
CCPA	119	
GDPR	111	
PCI DSS	95	
ISO27001	141	
PIPEDA	294	
CIS	141	



Cloud Expense - Cost Management & Optimization

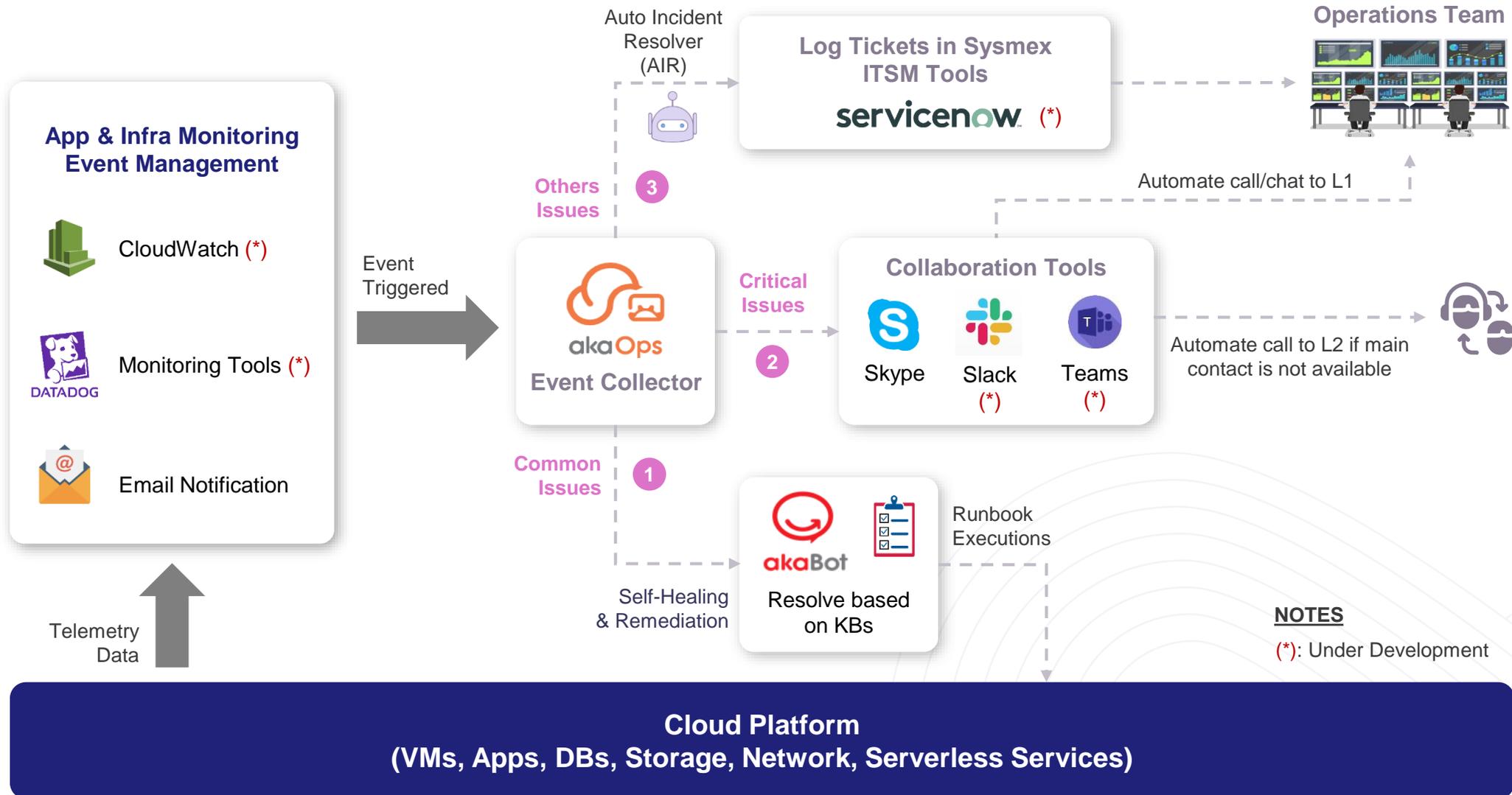


- Analyze cost breakdown reports to select critical components need to optimize

- Analyze cost trending to detect the anomalies

- Analyze resource consumption to optimize components

Cloud Alert - Event Driven Automation



Cloud Native - Container Management Platform

- **Cloud Native (akaKube)** is Container Management Platform that enable customer to build, deploy, modernize their application on the portable platform which can archive on both on-premise or multi-cloud environment.
- **akaKube** main features:



Multi-Cloud Operation
Provision cluster across cloud



Security and Compliance
Ensuring container security and follow industry container standard



Identity and access management
For organization policies

API Management
The best way for legacy app integration



Application Catalog
User can deploy, install apps



Backup & Restore
Ensuring business continuity



Success Stories

The slide features several decorative elements: a pattern of light blue diagonal lines in the top left corner; a large pink circle in the upper right quadrant; a vertical light blue line to the right of the main text; a small pink circle in the lower left quadrant; and a series of concentric, light blue curved lines at the bottom of the slide.

Cloud Management Platform

Our Customer



South Korea's corporation



\$100B+
USD Revenue



10K+
Customers Served



60,000+
Employees

B BUSSINESS NEEDS

The client wants to build up the managed service which has the main features as below:

- User can manage or monitoring and review resources status as visualize data from Multi Cloud services and Hybrid
- Grants you the ability to classify resources according to the required criteria such as cloud account, service, region
- Accounts, access & authority to use resources are managed from cell level of organization
- Easier to integrate with other system as Monitoring suite (Grafana, Prometheus...), Incidents Management applications.

C TECHNICAL CHALLENGES



04

Cloud Vendors
(AWS, Azure,
GCP, IBM)

100+

Asset &
Resource

500

Metrics for managing
cloud services on
multi-cloud
environment

S SERVICES & SOLUTIONS



Build up the web based application as Cloud Management Platform (CMP)

- Provide the collector to get information periodically from the Cloud vendors
- Analytics & Aggregation data algorithm to offer consistency across environments

R RESULTS & IMPACTS

- **Operation Efficiently:** offers CMP for user to manage resource across MultiCloud environments. Centralized Management on single management place.
- **Data Security Level Improved:** Reduce complexity and Optimizing Operational Efficiency
- **User Management:** Accounts, access & authority to use resources are managed from cell level of organization

Payment Compliance in AWS Environment

Our Customer



Aviation in Singapore



\$3.6B+
USD Revenue



9.5M+
Customers Served



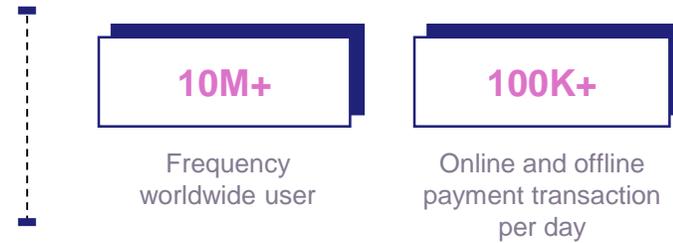
20,000+
Employees

B BUSSINESS NEEDS

- The client needs to develop a product which offers an extensive selection of products on your flight, ranging from cosmetics and fragrance to electronics and exclusive co-branded items.
- Require to re-develop inflight purchasing application to allow the crew selling the product to customer through multiple methods such as credit cards or membership point
- PCI DSS Compliance is required for the new application.



C TECHNICAL CHALLENGES



S SERVICES & SOLUTIONS

- Setup the PCI Compliance Checklist in Software Development
- Perform design review to ensure security controls are in place and follow security-by-design and security-by-default concept
- Perform PCI Compliance Assessment for the Application, Cloud Infrastructure
- Guide the development team to implement proper security controls for the system through assessment

R RESULTS & IMPACTS

- Set a proper manner approach of security controls for customer in the application
- Ensure the PCI Compliance for the application and AWS infrastructure developed by FPT Software
- Increase the security of the application for customer

Microservices Transformation

Company Stats



Automotive
Robotics & IoT



\$5M+
USD Revenue



100+
Agents



100+
Employees

B BUSSINESS NEEDS

- Difficult data management as dispersed data
- Very complex application landscape, time consuming for any change, new application development
- Pressure on infrastructure as rapid data increases
- Inefficient data informed strategy setting and reporting due to data consistency and quality

S SERVICES & SOLUTIONS

- Decoupling database by business domains: Policy data, Claim data, Customer data, Commission data
- Centralize data into data lake for reporting
- Adapt real-time, end of day, offline mode data sync
- Decoupling applications by domains/ categories into micro-services orchestrated by API-led integration
- Continuous integration, deployment and release
- Ensure backward compatibility with legacy systems through hybrid cloud

R RESULTS & IMPACTS

- Integrated 360° customer data analytics
- Near-real time data process
- Be able to create tailor report for specific business need in much shorter time and effort
- Improve faster product's time to market
- Improve the performance & response time as data growth.
- Enable building multiple analytic models for product and market insights
- 25/48 applications have been transformed
- System quick adaptability to business growth 35% business growth (plan 30%)
- Standardized system and framework allow agility development
- Real-time monitoring allows better remedy action or preventive control.
- Centralized history trails for analysis and prediction



Hybrid Cloud Management

Company Stats



Global IT service



\$3B+
USD Revenue



1000+
Agents



10,000+
Employees

B BUSSINESS NEEDS

- Manage & control the large number of virtual machines on VMware ecosystem
- Expensive license when using third party software solution
- Self-service, multi-tenant support, easy to customize
- Capable of extending to support AWS, Azure

S SERVICES & SOLUTIONS

- Build up the V2MP to support resource management VMware and capable of extending to the other Public Cloud vendor (e.g. AWS, Azure)
 - Apart from that the system allows other services be able to integrate with through REST API
- Support the main features:
- Compute Management
 - Storage Management
 - Network Management
 - Performance & Usage
 - Service Catalog Management

R RESULTS & IMPACTS

- Saving 30% licensing cost
- Unlock single-pane-of-glass visibility of customer's hybrid cloud environment
- Centralized monitoring resource, performance & usage
- Optimized spend and usage
- Easy to integrate with the ITSM system



Contact Us



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The text 'Thank You!' is centered on the slide in a large, white, bold, sans-serif font. To the left of the text is a vertical cyan line that is slightly taller than the text itself.

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