

Npo
SISTEMI
A RICOH COMPANY

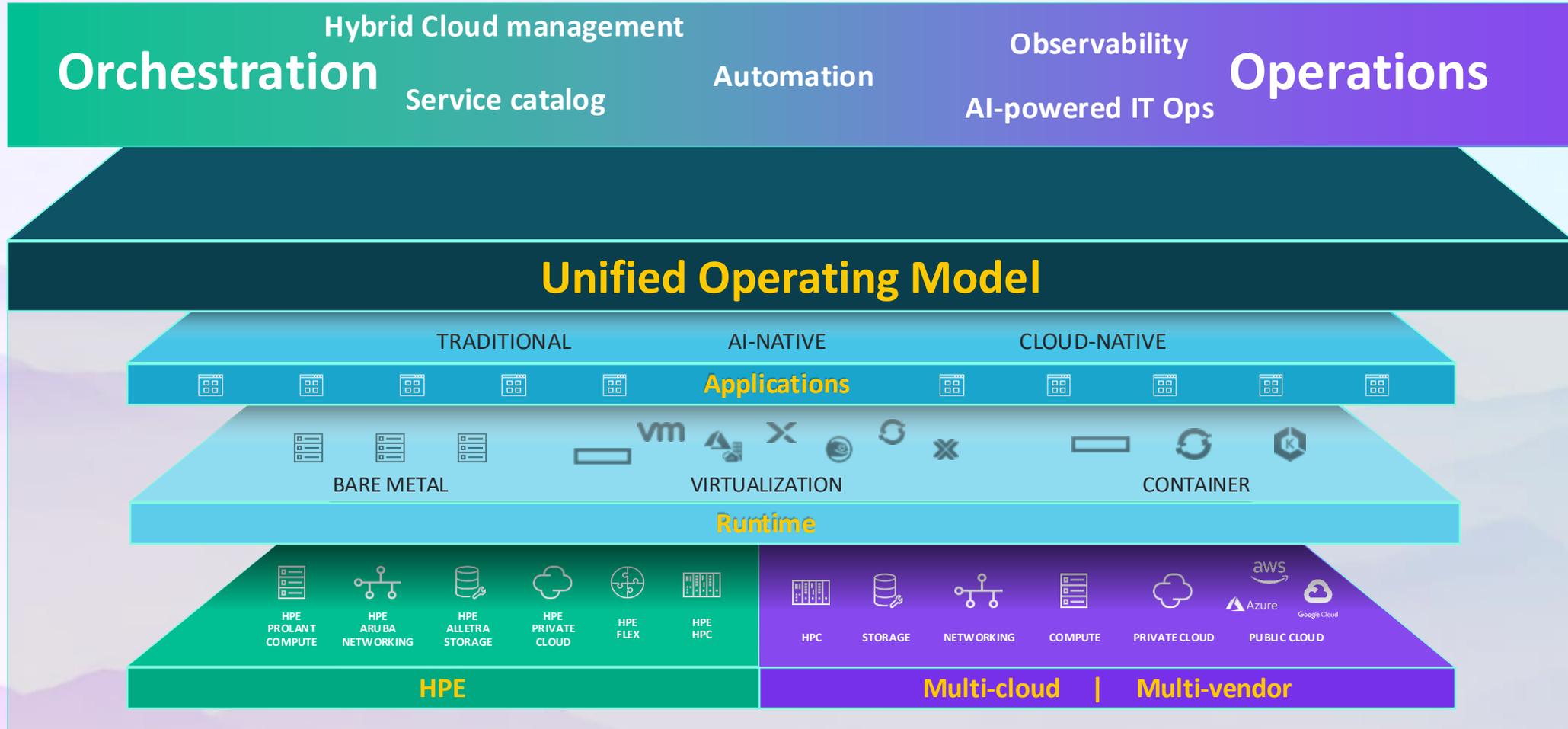
SIMPLIFY
THROUGH
TECHNOLOGIES



**Hewlett Packard
Enterprise**

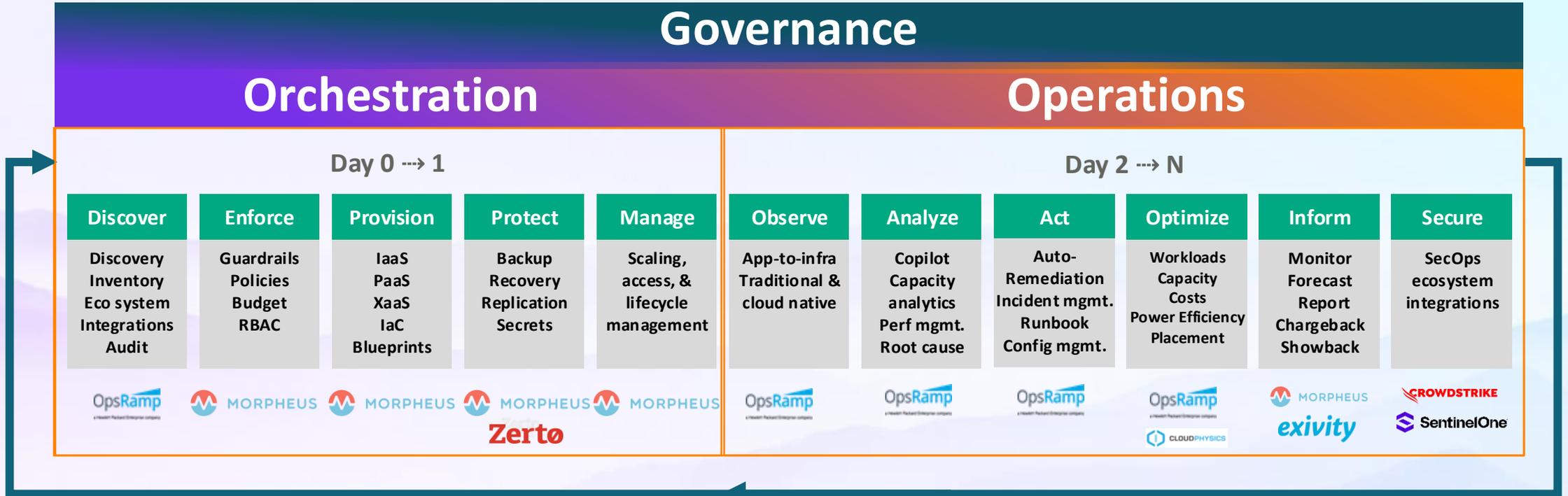
NPO SISTEMI ACADEMY - INNOVATION STATION
***HYBRID CLOUD MANAGEMENT WITH
OPSRAMP AND MORPHEUS***

HPE Hybrid Cloud Operating Model Vision



Simplify Hybrid Cloud Operations from ~ Day-0 to N

ITOps DevOps FinOps



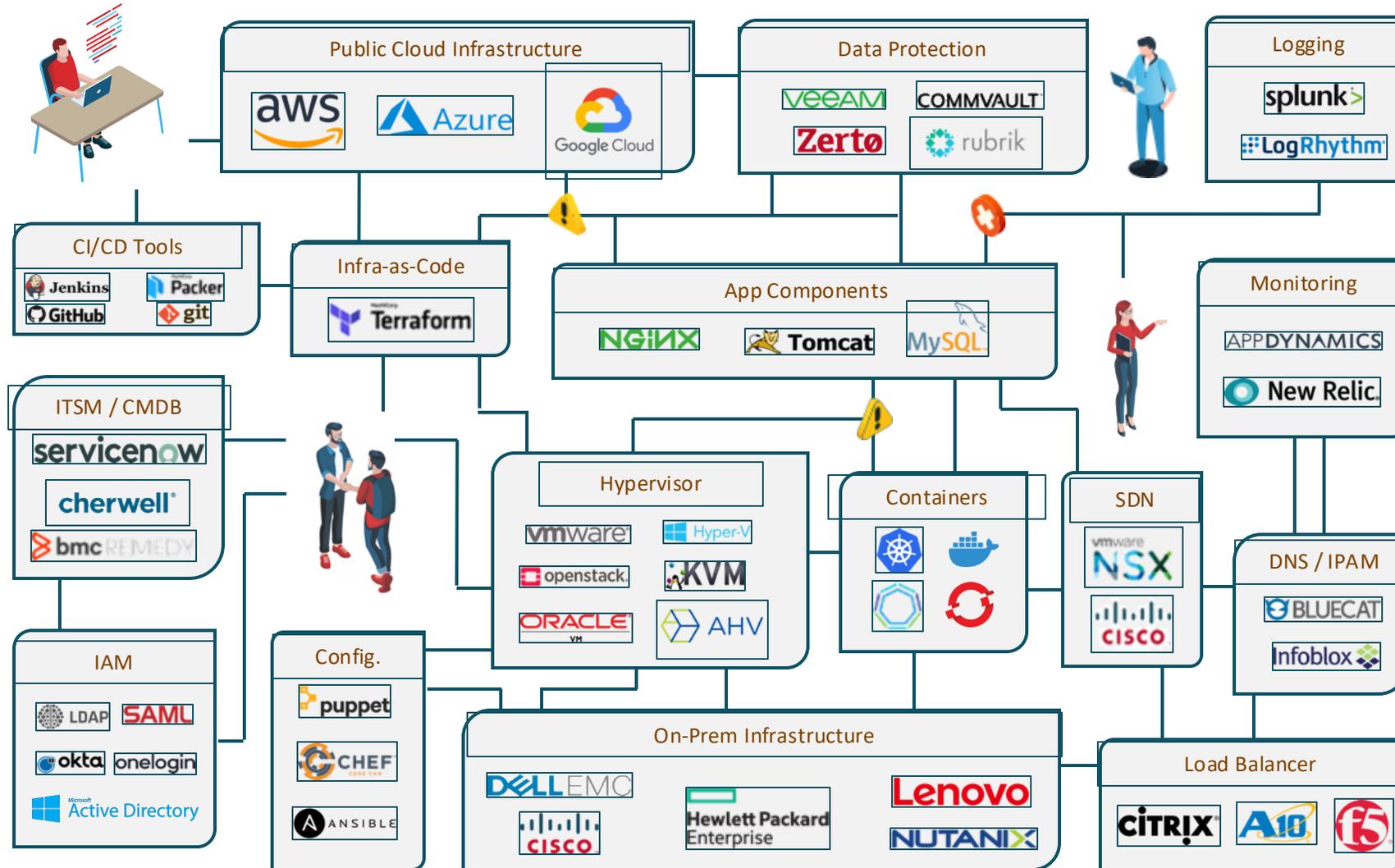
Foundational Services
 Identity & Access Mgmt. | Consumption analytics | Sustainability | Subscription Mgmt. | Asset Mgmt.



SIMPLIFY HIBRID CLOUD OPERATIONS WITH MORPHEUS



THE TECHNICAL ISSUE: HYBRID CLOUD SPRAWL AND COMPLEXITY



THE PEOPLE ISSUE: SILOED PERSPECTIVES, PRIORITIES, AND PROCESSES



"We must provision on-demand to re-platform and rebuild apps using modern CI/CD pipelines."

Developers: Provision faster

Modernize apps across platforms (BM, VM, Container, PaaS) with self-service Infra-as-Code, full API/CLI and CI/CD hooks



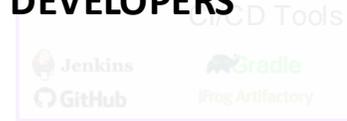
FINANCE

"We need visibility and cost control over teams and projects for show back."

Finance: Understand and reduce cloud cost

Discover brownfield instances, optimize resource use, centralize multi-cloud usage reporting, and enable showback/chargeback

DEVELOPERS



"We can't afford non-compliance and need to make sure security is embedded into everything."

Security: Reduce risk exposure

Connect identity providers, establish RBAC, implement lifecycle and compliance policies, plus report on security vulnerabilities

SECURITY



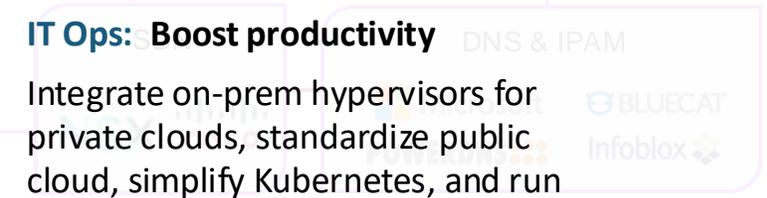
"Our IT team can't maintain the old and keep up with what's next... VMs, Clouds, Containers, PaaS. We don't have people with the right skills."

IT OPS



IT Ops: Boost productivity

Integrate on-prem hypervisors for private clouds, standardize public cloud, simplify Kubernetes, and run day-2 tasks



MORPHEUS ENABLES HYBRID CLOUD PLATFORM OPERATIONS

Hybrid Cloud, DevOps, Internal Development Platforms Are All About Self-Service... and so Is Morpheus

Provision Any Workload Into Any Cloud On-Demand

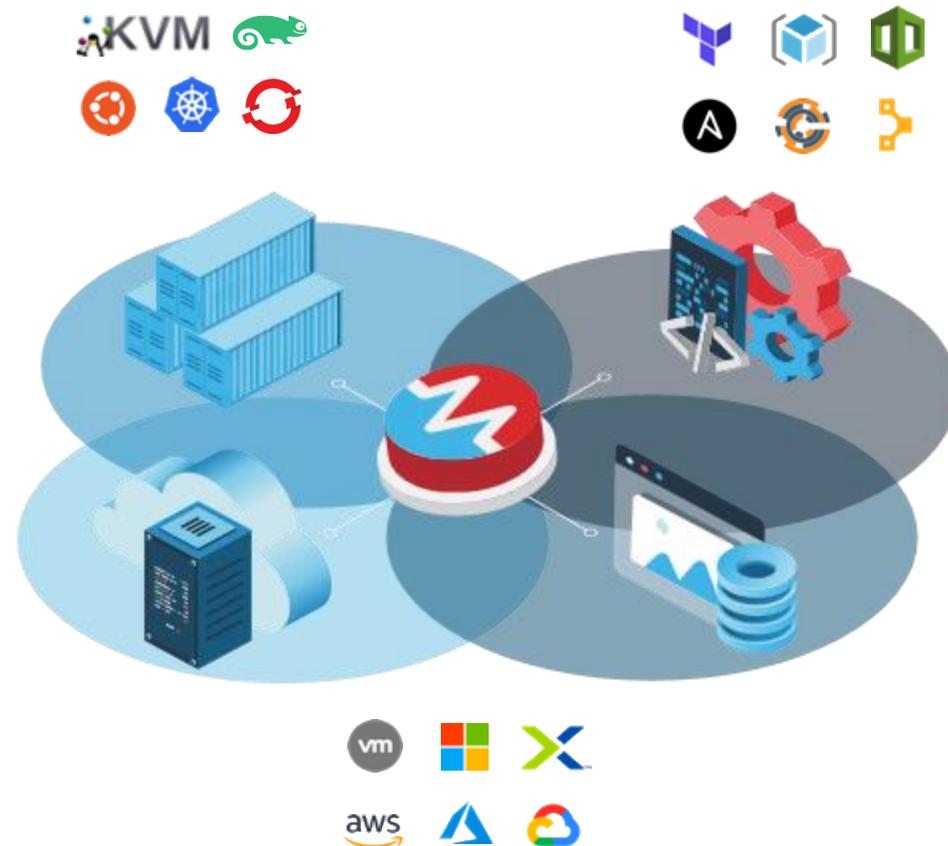
Orchestrate the tools and dependencies to enable catalogue deployment and management of VMs (IaaS / VMaaS), containers (CaaS), services (DBaaS / PaaS), app stacks, and cloud services.

Simplify Runtime Deployment for Flexibility and Choice

Push button deployment and management of **Virtualization and Kubernetes Clusters** plus cloud-managed EKS, AKS, GKE. Extend with brownfield of 3rd Party K8s like SUSE, OpenShift, etc.

Lower Cloud Cost with Visibility and Optimization

Discover brownfield on-prem and public cloud instances, optimize resource use with analytics and rightsizing, enforce budgets policy, enable show back, and centralize multi-cloud reporting.



MORPHEUS SOLUTION ARCHITECTURE OVERVIEW

Morpheus is a software-based appliance installable on most major Linux versions (AWS, CentOS, Debian, RHEL, SUSE/SLES, Ubuntu).

Minimal environment

16GB VM recommended. 200 GB storage.

Components

- RabbitMQ (Messaging)
- MySQL (Logistical Data store)
- Elasticsearch (Logs / Metrics store)
- Tomcat (Morpheus Application)
- Nginx (Web frontend)
- Guacamole (Remote console service)
- Check Server (Monitoring Agent for checks)

Configuration Options

- Single Host (All-In-One Default)
- Single App host with Distributed Services
- Clustered Hosts with Distributed App and Services (Full HA)

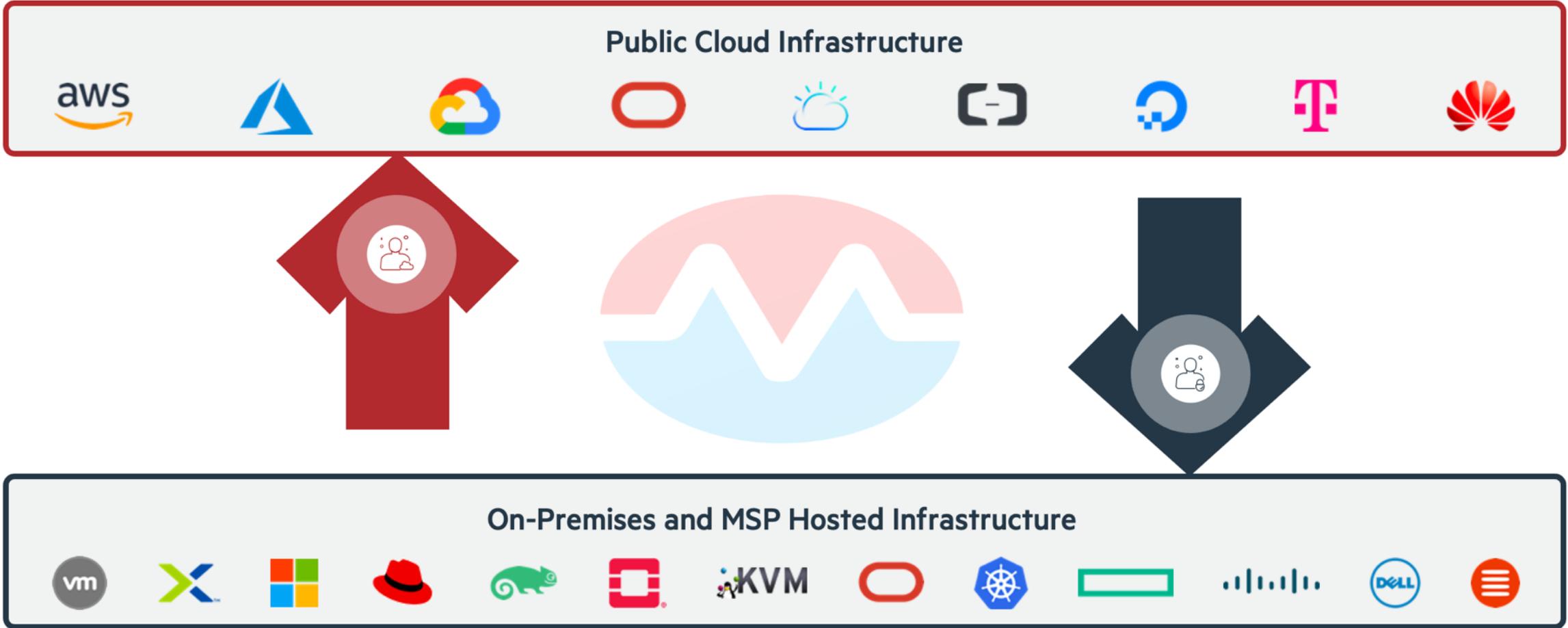
Deployment Modes

- Primarily installed on customer premises
- Can run in public cloud in all configurations

Register and Download the Community Edition at www.morpheushub.com to get started today plus visit the discuss.morpheusdata.com forum!



FLEXIBILITY ACROSS 20+ PRIVATE AND PUBLIC CLOUDS FOR ZERO LOCK-IN



PLUS A POWERFUL **WORKFLOW ENGINE** FOR LIFECYCLE MANAGEMENT

Provisioning Workflows

Automation logic that follows the lifecycle of an Instance.

- Configuration
- Pre-Provision
- Provision
- Post-Provision
- Start / Stop Service
- Pre-Deploy / Deploy
- Reconfigure
- Teardown



Operational Workflows

Automation tasks and jobs that are independent of an application service.

- Mix and match script technologies plus pass variables for flexibility.
- Can be identified as service catalog items to be executed easily to simplify IT Ops.
- Subject to role-based based access and audit tracking.

AND LIMITLESS EXTENSIBILITY VIA A FLEXIBLE PLUGIN FRAMEWORK

- ▶ Secure and supported architecture to enable customers, partners, and technology alliance partners to **develop plugin modules within the Morpheus abstraction model.**

Decouples core platform from plugins to improve scale, velocity, and flexibility.

- ▶ Clouds
- ▶ UI Extensions / Tabs (Instance, Cluster, App)
- ▶ Custom Reports
- ▶ Network Provider
- ▶ Tasks and Approval
- ▶ IPAM and DNS Providers
- ▶ Cypher Security Backends

Develop Plugins: <https://developer.morpheusdata.com/>

Access Plugins: <https://share.morpheusdata.com/>

The screenshot displays the 'MORPHEUS EXCHANGE' website interface. At the top, there is a navigation bar with links for 'Community', 'Website', 'Documentation', 'Support', and 'Developer'. Below the navigation bar, the 'Explore' section lists several plugins, each with its logo, name, description, and a list of tags. A blue download button is present for each plugin.

Plugin Name	Description	Tags
Crowdin Localization Plugin	Plugin for Morpheus Localization with Crowdin	plugin, translations, localization, crowdin, internationalization, 118n
CyberArk Conjur	Plugin for CyberArk Credential Storage	plugin, credentials, cyberark
DataDog Plugin	Plugin for DataDog Integration	plugin, monitoring, datadog
Efficient IP	Plugin for Efficient IP	plugin, cloud, google, networking, network, efficient, ip
Hashicorp Vault	Plugin for Vault Credential Storage	plugin, credentials, vault
Infoblox Plugin	Plugin for Infoblox	plugin, network, infoblox

EXTENDED USE CASES & ARCHITECTURES



STANDARD MORPHEUS DEPLOYMENT

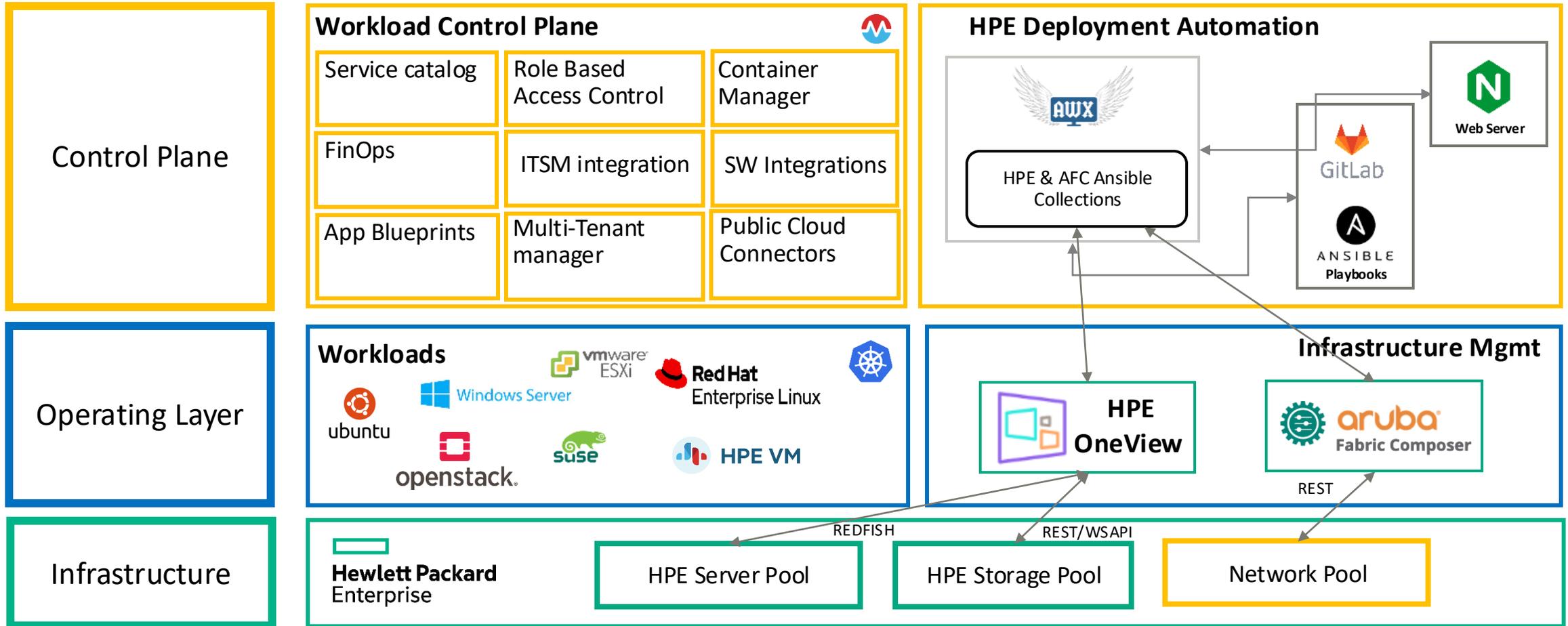
Configuration of workflows, custom instances, catalog

Activities

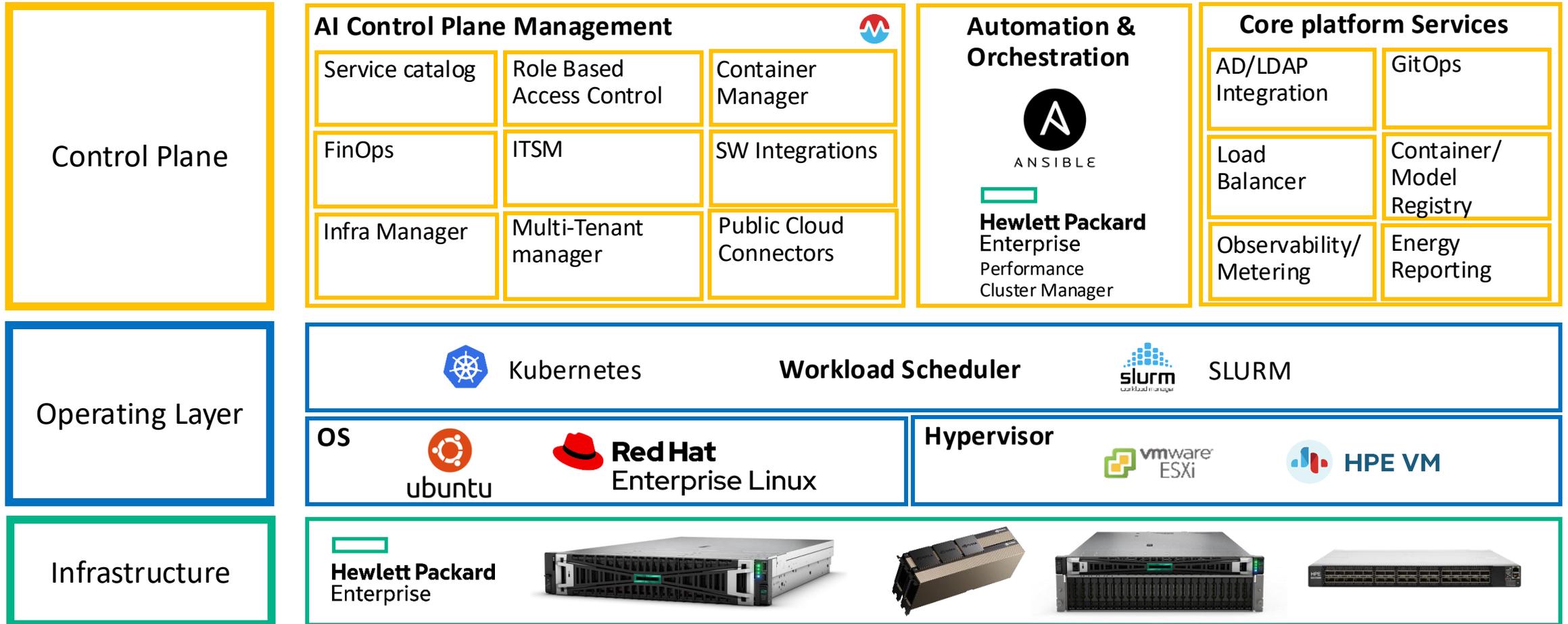
- Analysis of customer provisioning workflow and machine images
- Creation and configuration of Custom Instance Types, Blueprints and Service Catalog
- Creation of Provisioning/Operational Workflows and custom forms
- Configure costing for Public/Private clouds
- Integrations: DNS, IPAM, GIT
- Provisioning tests



CONTROL PLANE FOR FULL INFRASTRUCTURE AUTOMATION



CONTROL PLANE FOR AI & HPC



A RECOGNIZED MARKET LEADER.

THANK YOU!



MODERNIZE IT OPERATIONS WITH OPSRAMP

Pressures on IT Operations Teams



ON-PREMISES
Siloted IT Teams &
Business Units

MULTI-CLOUD
Cloud Service Providers &
Cloud Native Tools

Growing Expectations

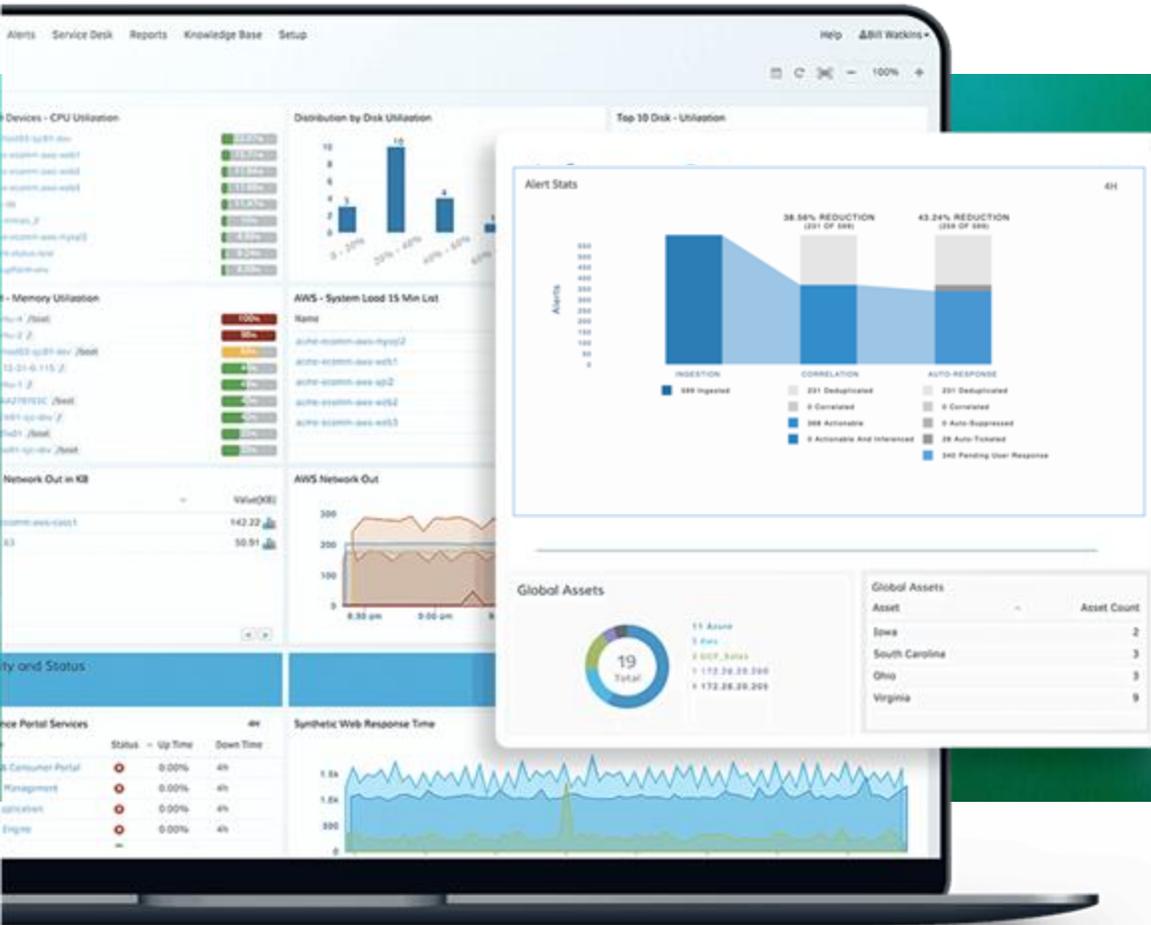
Lack of Visibility

Reactive

Escalating Costs



A New Operating Model Is Needed



Edge-to-Cloud Hybrid Observability

Centralized Management

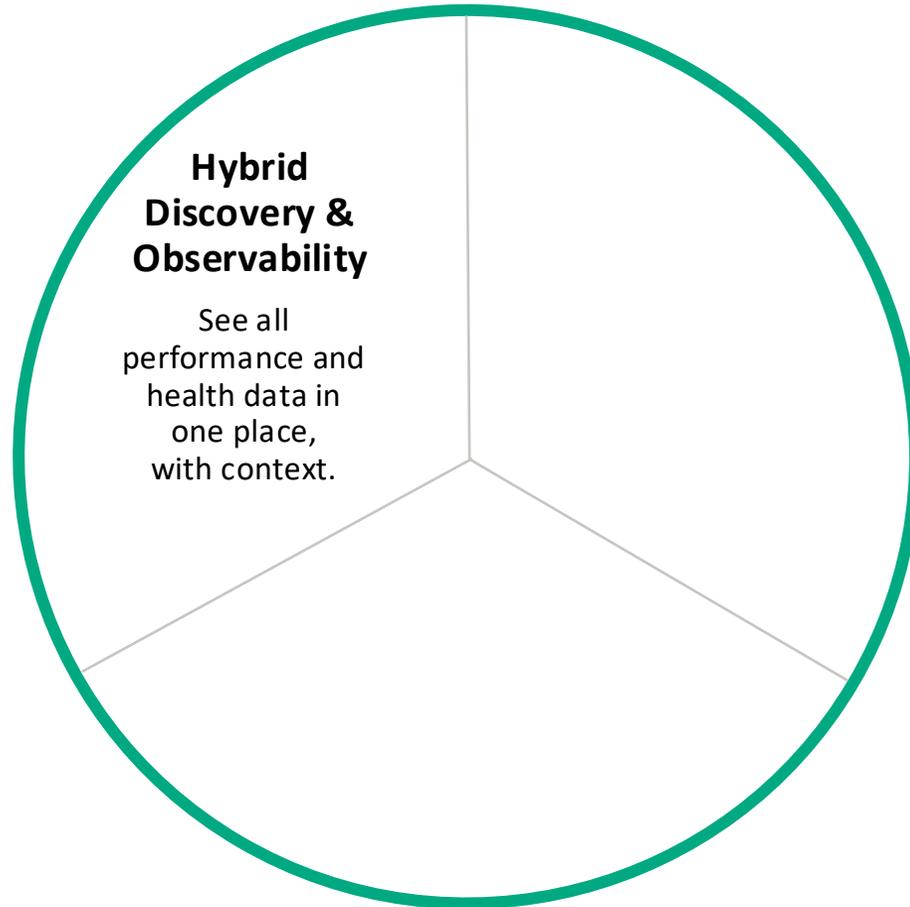
Service-centric AIOps

Intelligent Automation

Scalable & Reliable

See all performance and health data in one place, with context

- Servers
- Storage
- Network Components
- Databases
- Multi-Cloud
- Virtualization
- Cloud-Native
- Websites & Transactions
- Applications



3,000+ Integrations

Cloud / Cloud-Native Observability

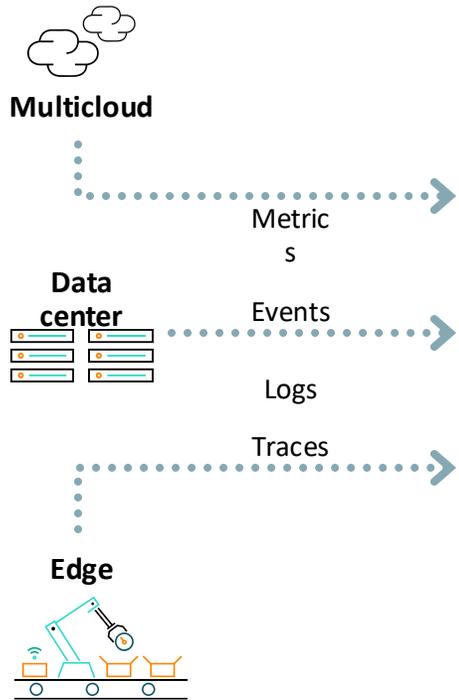
Topology & Service Maps

Role-Based Dashboards

- ✓ **Consolidate Point Tools**
- ✓ **Drive Efficiencies & Governance**
- ✓ **Improve Visibility & Performance**



Reduce noise and gain intelligent insights for making the right decisions



Alert Correlation, Deduplication & Suppression

Anomaly Detection

Auto-Ticketing

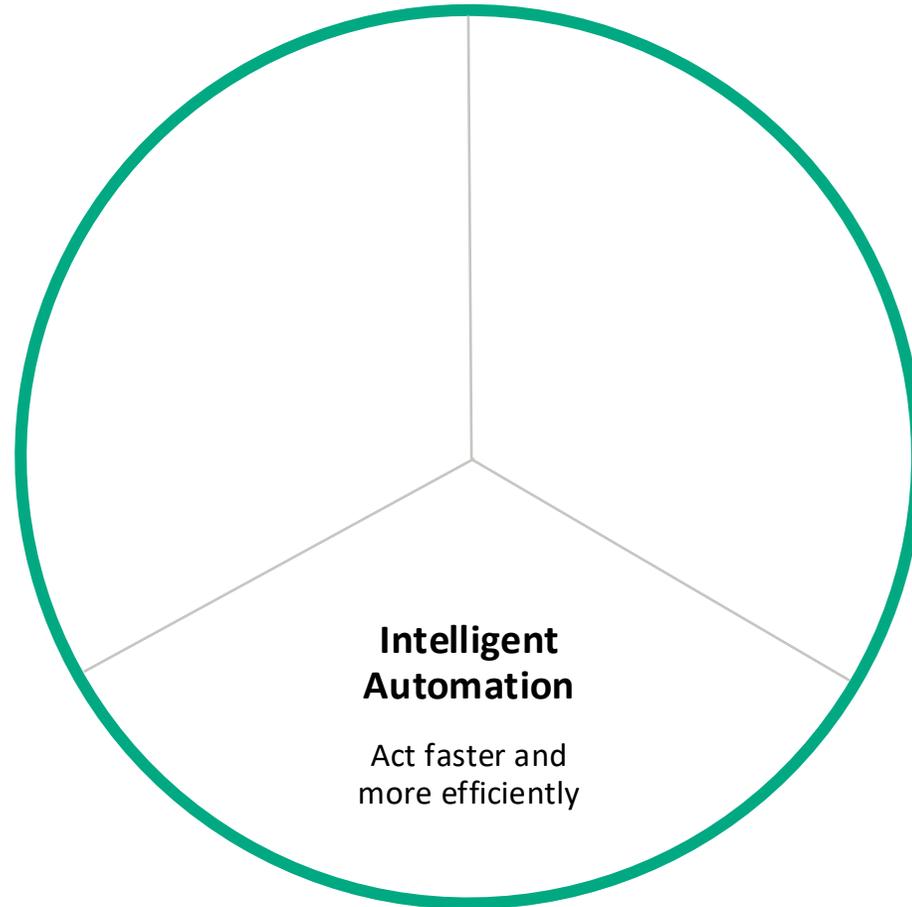
Intelligent Incident Routing

- ✓ **Improve Service Levels**
- ✓ **Reduce Alert Noise > 95%**
- ✓ **Reduce MTTD & MTTR by > 50%**



Act faster and improve operational governance

Tools
Processes
Governance
Knowledge Base

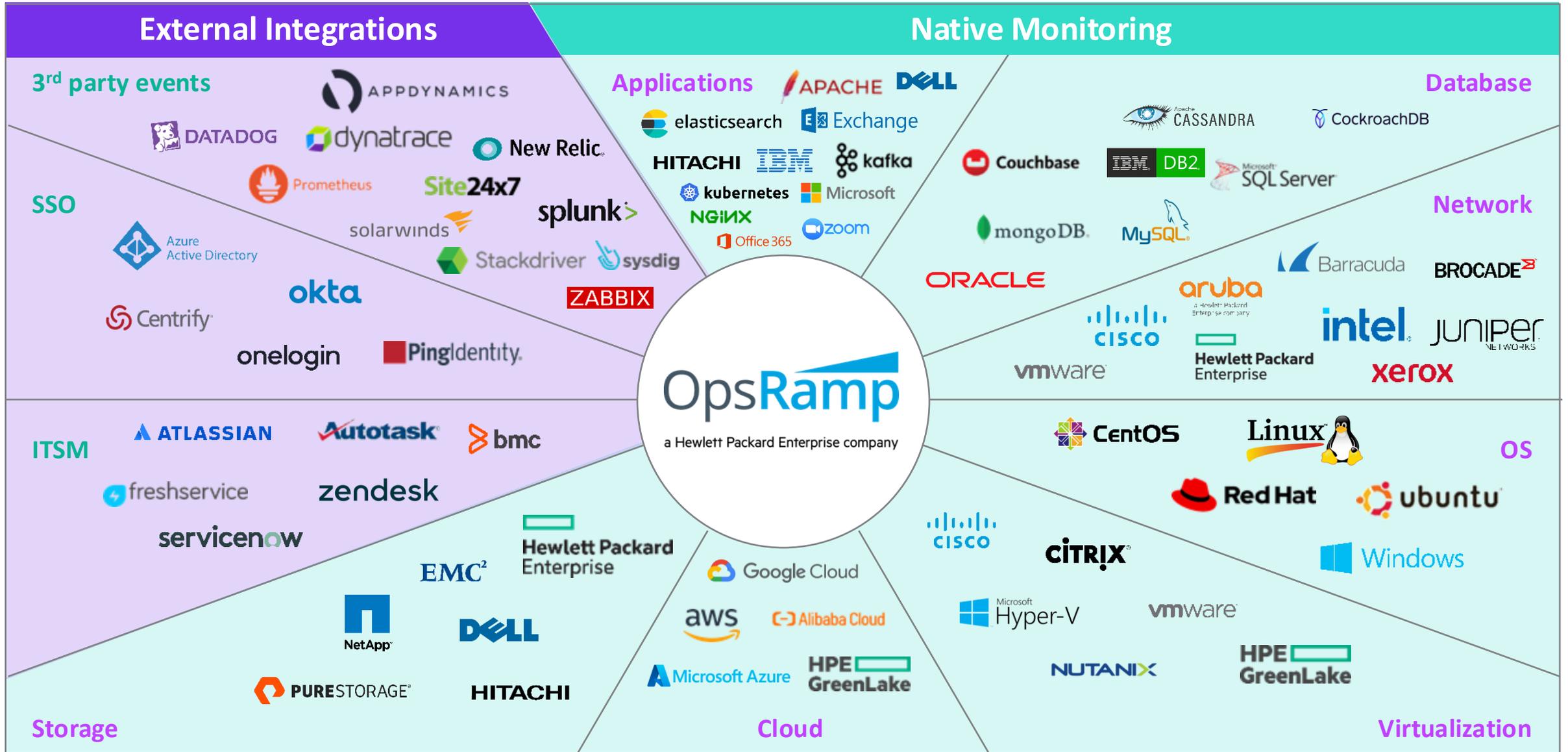


- Policy-based Monitoring Templates**
- Resolution Workflows**
- Runbook Automation**
- Automated OS Patching**
- ✓ **Improve IT Governance**
- ✓ **Automate Repetitive Tasks**
- ✓ **Improve Efficiency by > 30%**



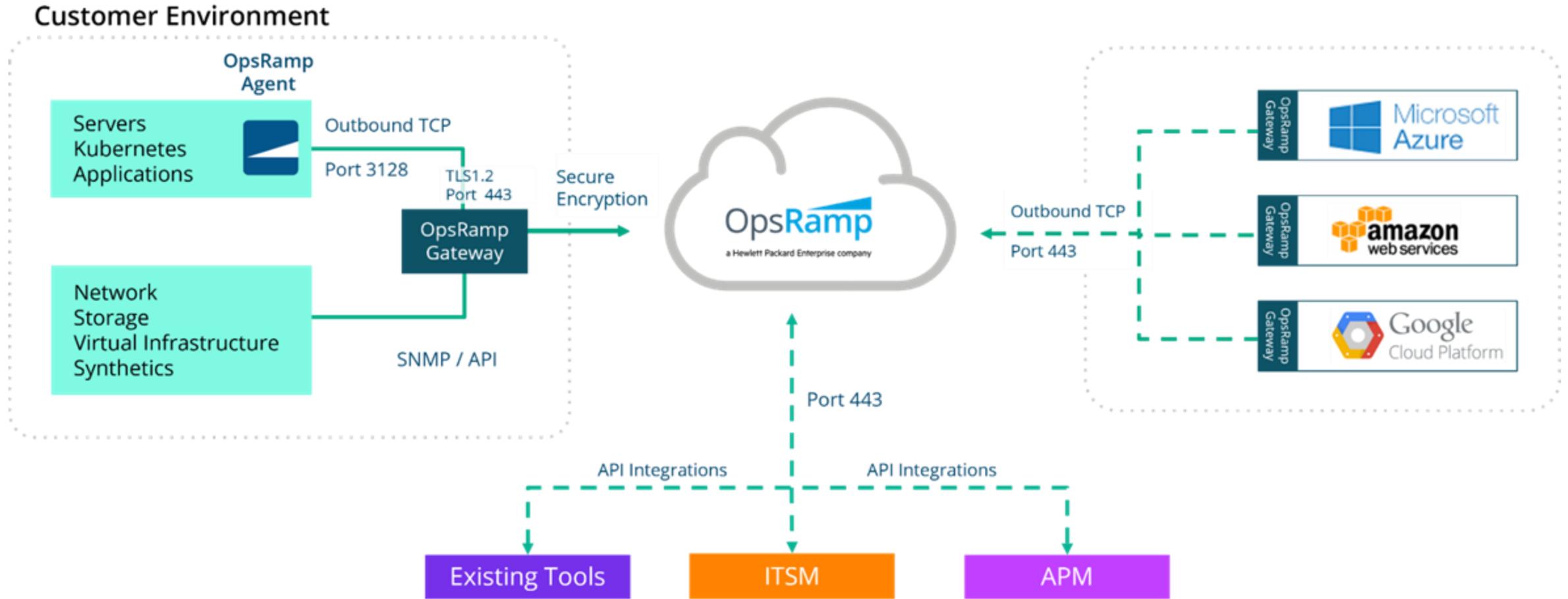
3000+ Integrations Supported

Comprehensive and Extensible



OpsRamp Cloud and Customer Infrastructure

Data Exchange



Q&A



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