



Day 5

Intelligence & Platform

*SAP Data Intelligence with Red Hat OpenShift
&
SAP Cloud Platform with Red Hat OpenShift*



Your presenters for today



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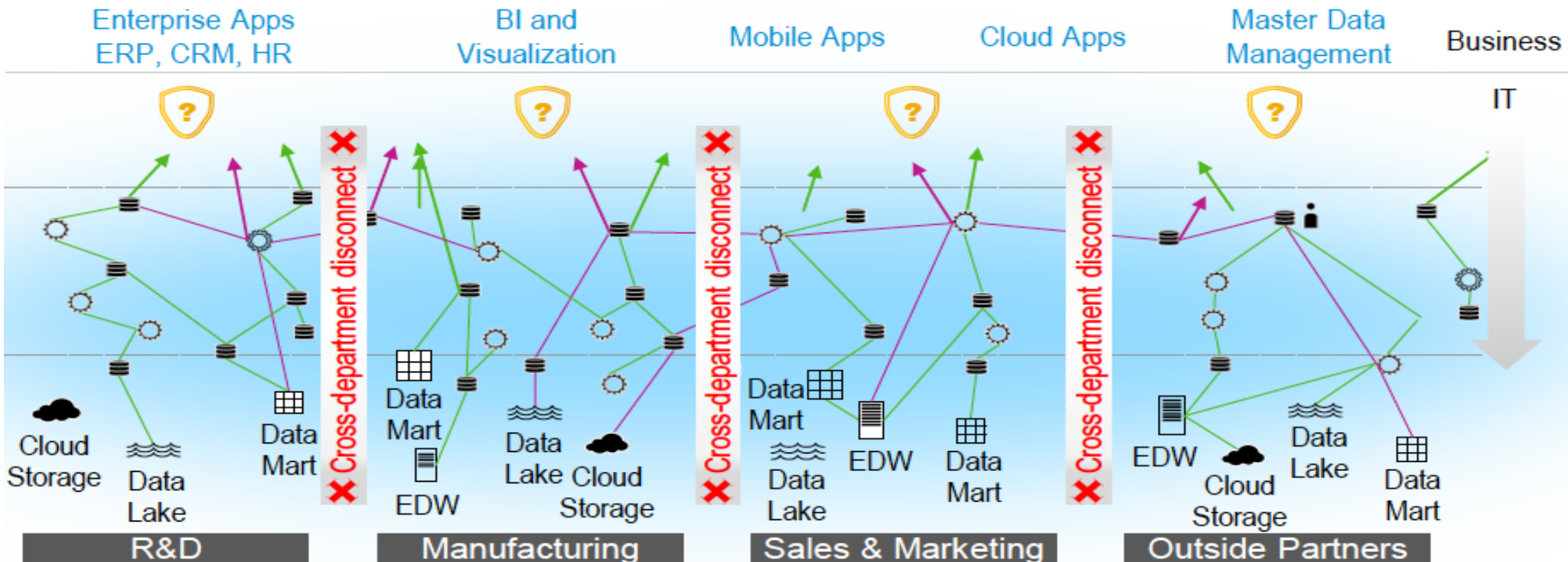
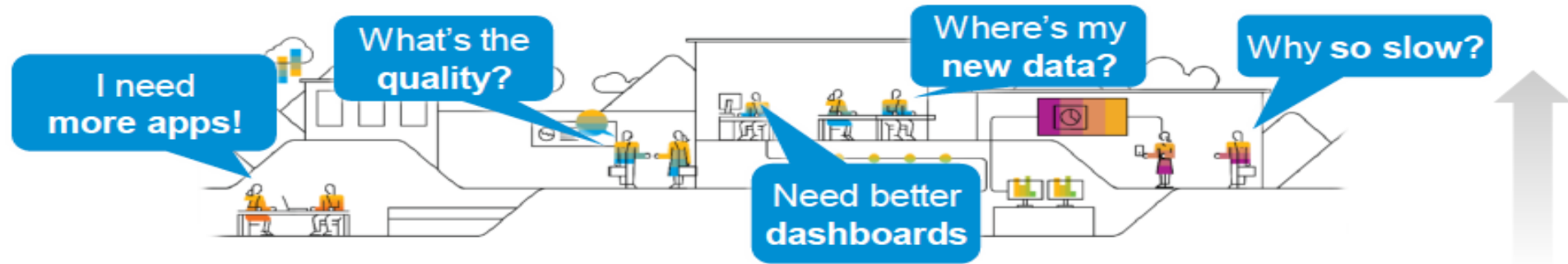
SAP Data Intelligence

Agenda

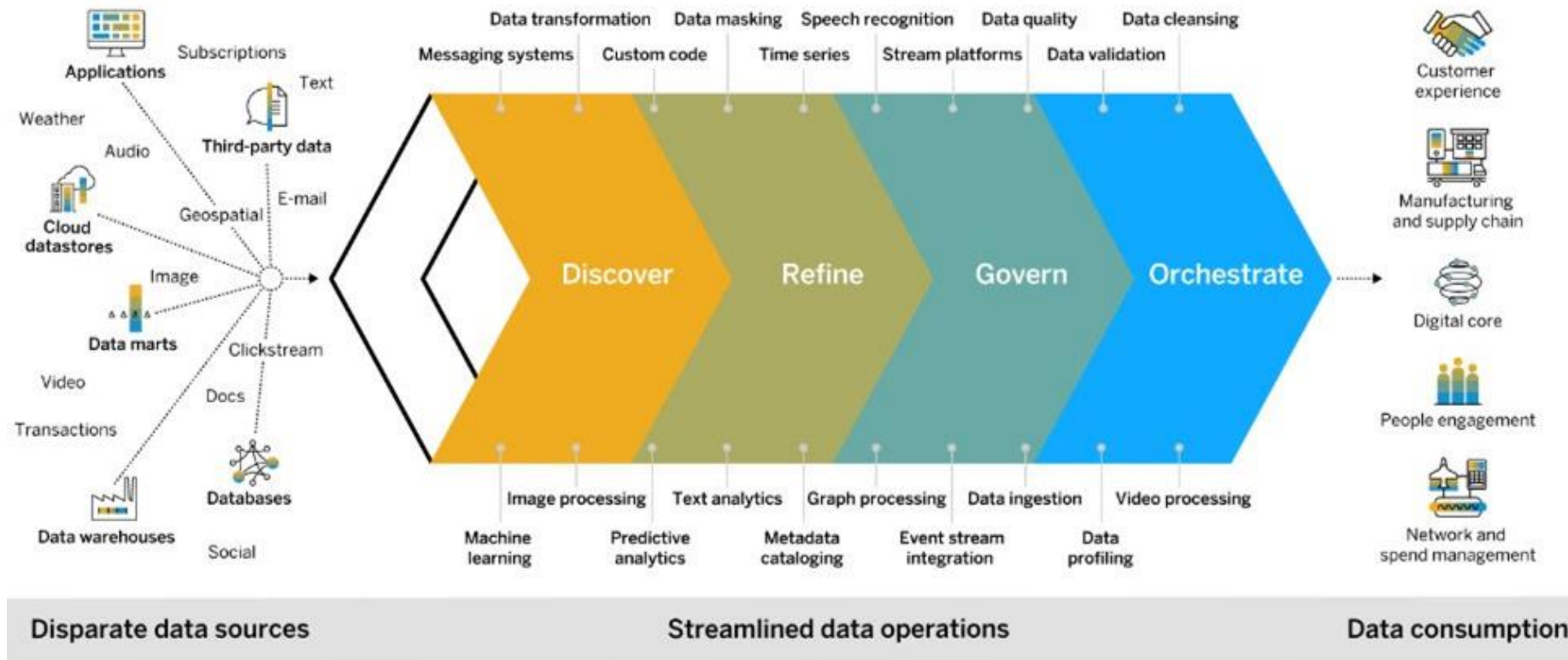
- Overview of SAP Data Hub / Data Intelligence
- SAP Data Hub Use Cases
- Why Red Hat OpenShift ?
- Red Hat Support and Certifications for Data Hub

**SAP Data Intelligence
deployed on OpenShift**

Why an enterprise needs this solution?

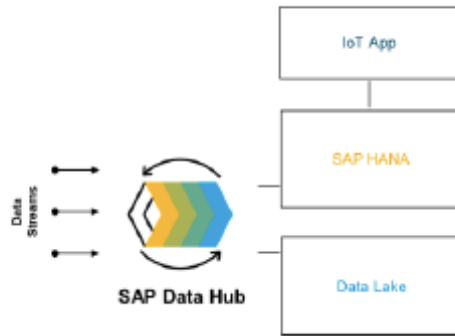


SAP Data Hub

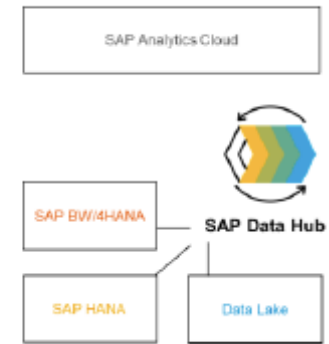


SAP Data Hub lets you integrate **data**, orchestrate **data** processing, and manage metadata across your enterprise **data** sources and your **data** lakes. It also lets you build powerful pipelines, as well as manage, share and distribute **data**.

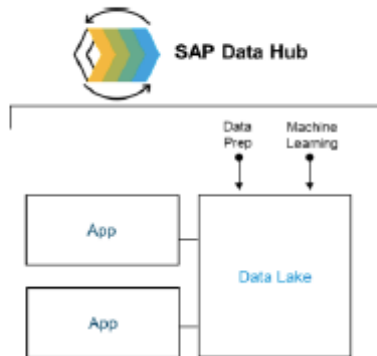
Use cases Overview



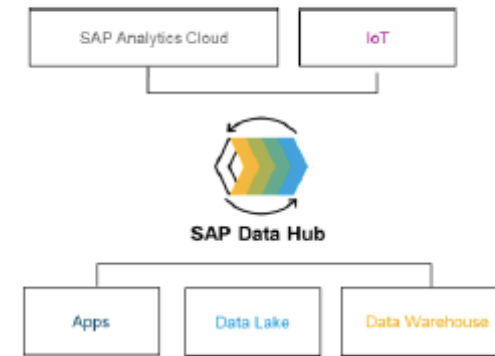
IoT Ingestion & Orchestration
Understand real-world performance



Intelligent Data Warehouse
Rapidly integrate and leverage new data sources

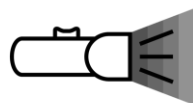


Data Science & ML Data Management



Governance / Data Cataloging
Understand and secure your data

SAP Data Hub Extracts Value from Distributed Data Assets



Discover

your data landscape and its interconnections.



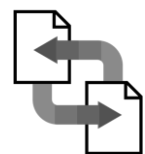
Refine

enrich, transform, reuse, curate



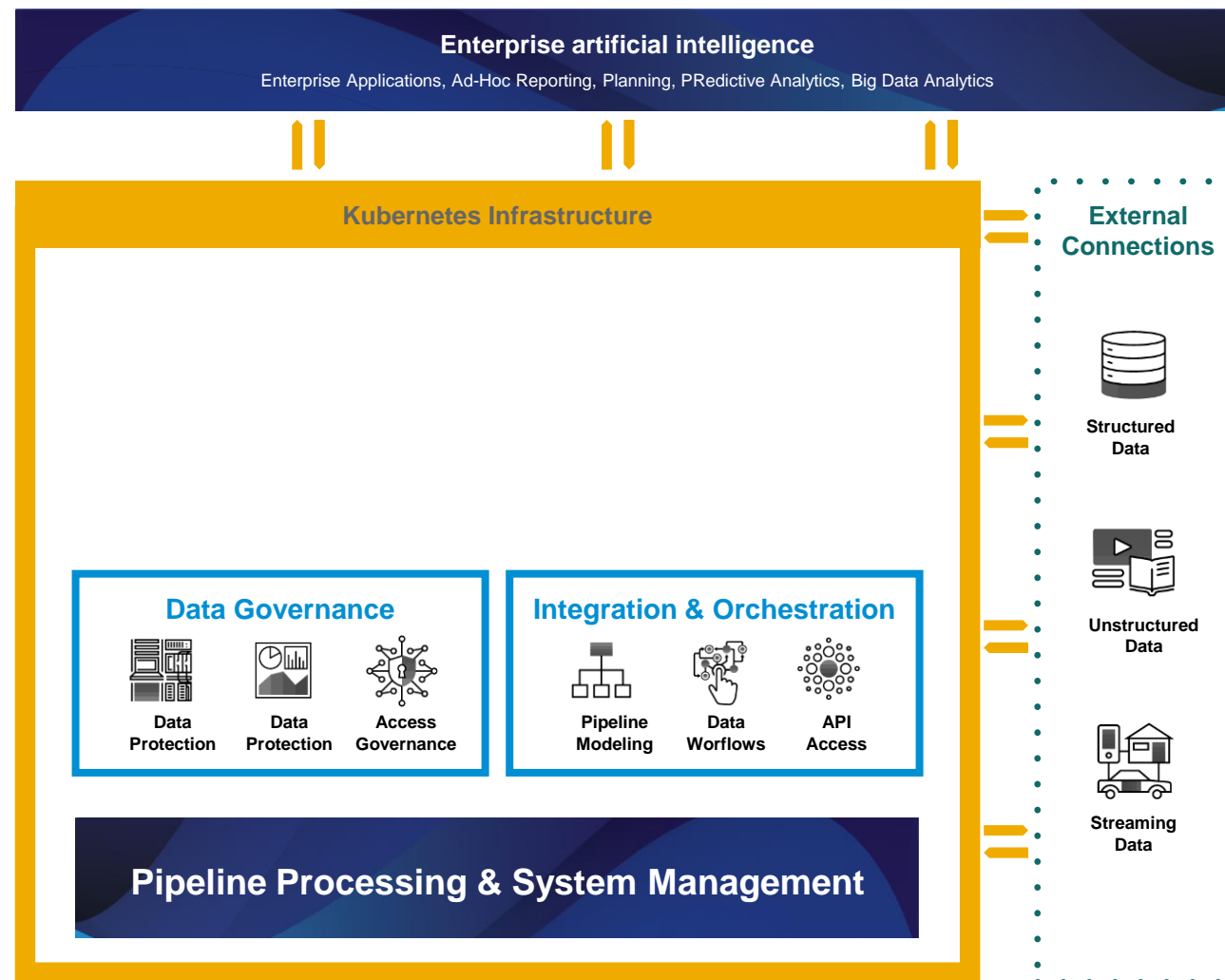
Govern

and secure data assets transparently with compliance

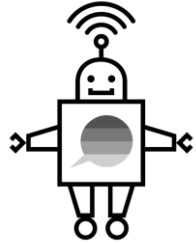


Orchestrate

your data using modular data pipelines



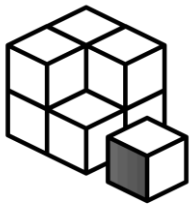
SAP Data Intelligence Extends SAP Data Hub



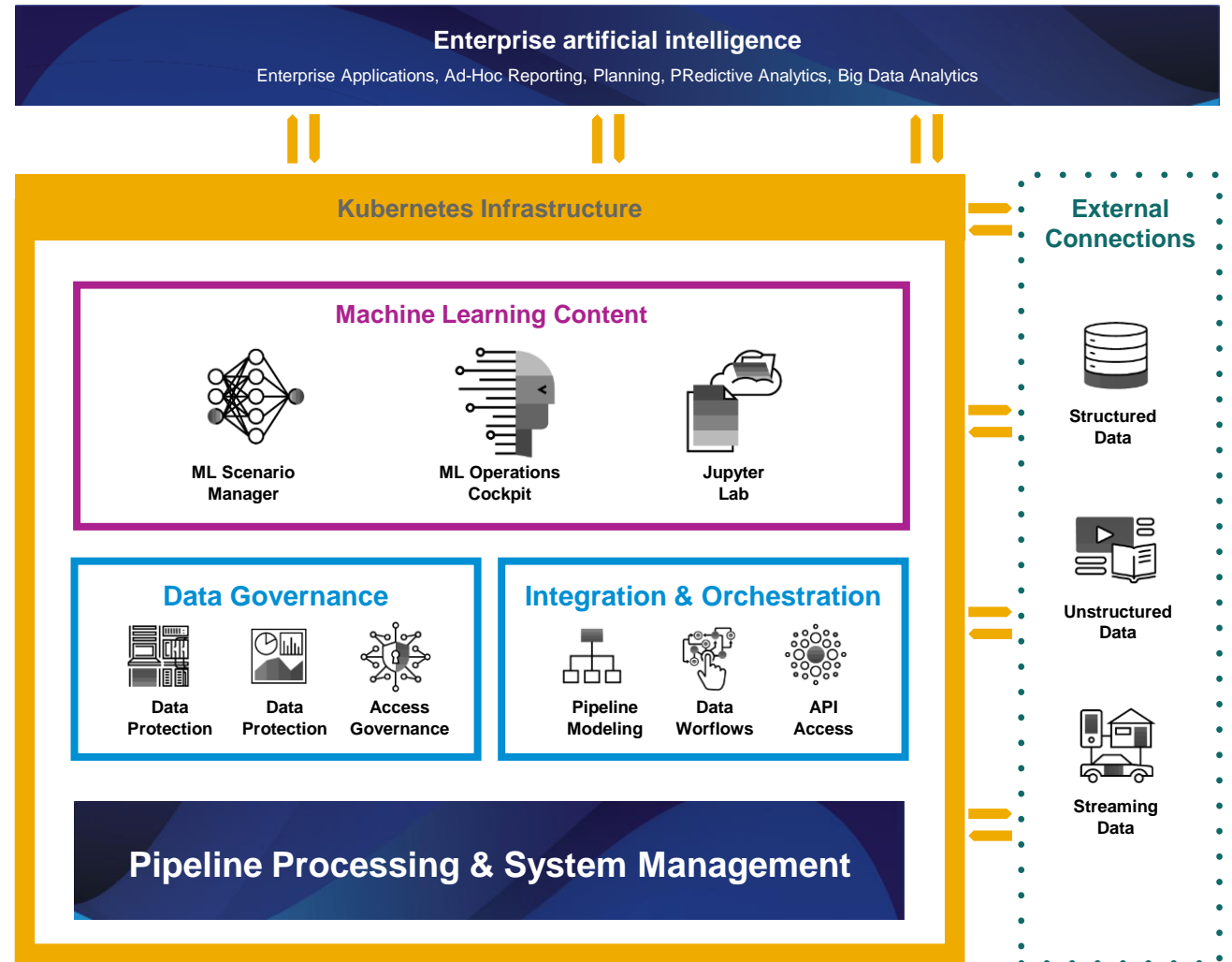
Scale AI
across your landscape



Deliver AI
Manage the models and delivery



Data science platform
Discovery, explore, experiment



KUBERNETES DONE RIGHT IS HARD

THE BASE TECHNOLOGY FOR HYBRID CLOUD

INSTALL

- Templating
- Validation
- OS Setup

DEPLOY

- Identity & Security Access
- App Monitoring & Alerts
- Storage & Persistence
- Egress, Ingress & Integration
- Host Container Images
- Build/Deploy Methodology

HARDEN

- Platform Monitoring & Alerts
- Metering & Chargeback
- Platform Security Hardening
- Image Hardening
- Security Certifications
- Network Policy
- Disaster Recovery
- Resource Segmentation

OPERATE

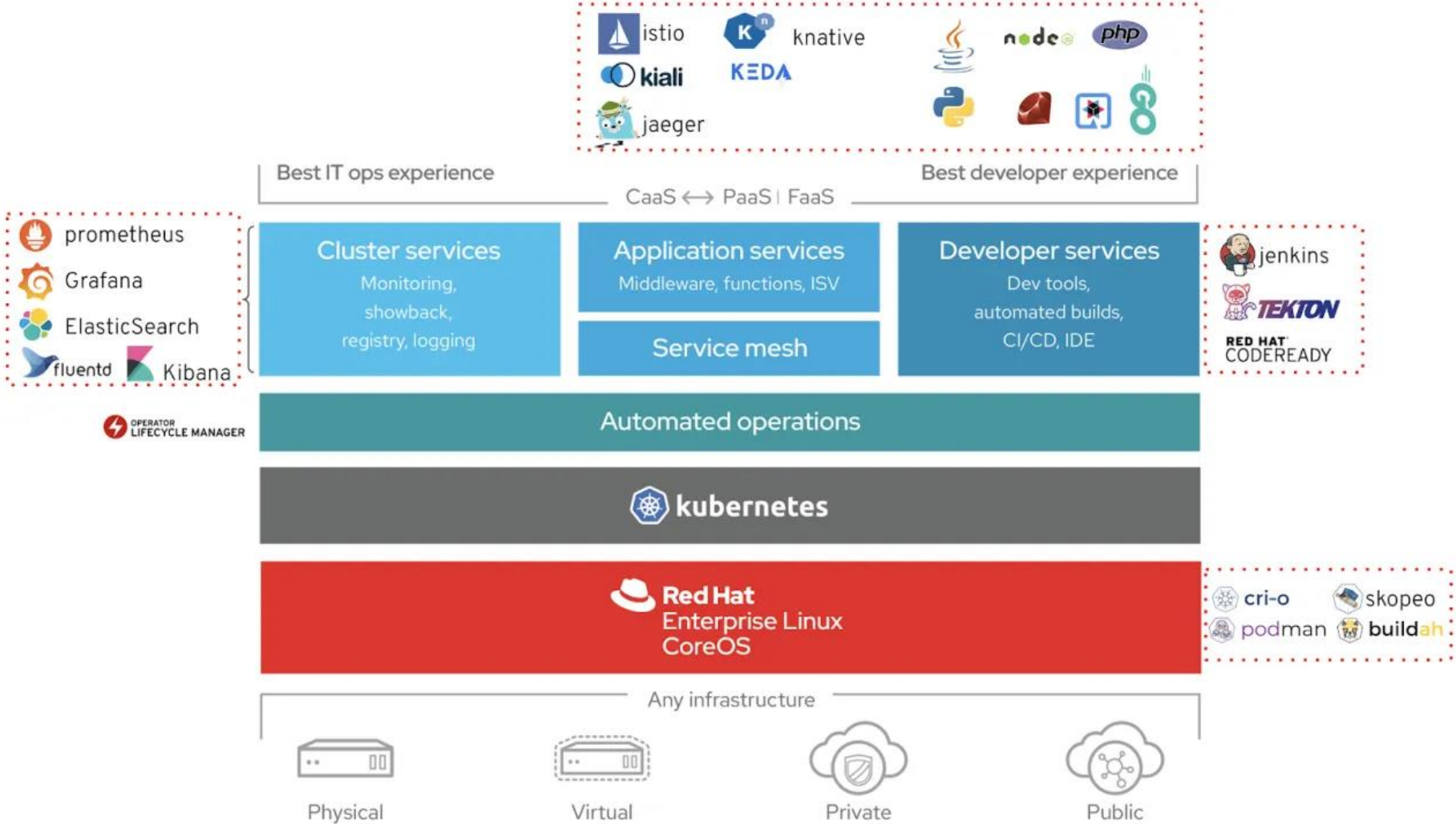
- OS Upgrade & Patch
- Platform Upgrade & Patch
- Image Upgrade & Patch
- App Upgrade & Patch
- Security Patches
- Continuous Security Scanning
- Multi-environment Rollout
- Enterprise Container Registry
- Cluster & App Elasticity
- Monitor, Alert, Remediate
- Log Aggregation

 **75%**

of enterprise users identify complexity of implementation and operations as the top blocker to adoption

Source: The New Stack, The State of the Kubernetes Ecosystem, August 2017

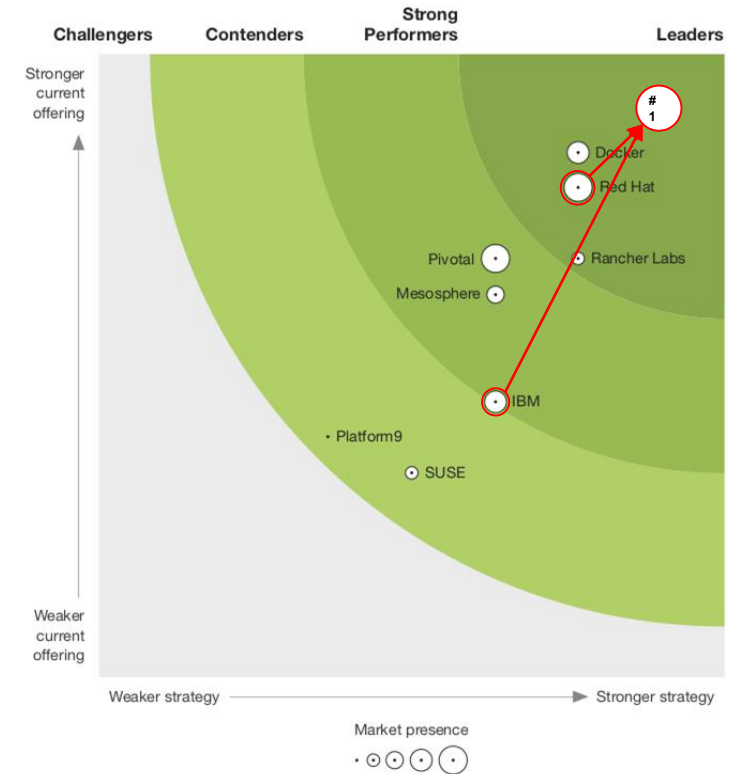
OpenShift Compute Platform 4



FORRESTER CONFIRMS Red Hat's LEADERSHIP

IN ENTERPRISE CONTAINER PLATFORM SUITES

- Superior ratings for:
 - runtime and orchestration
 - image management
 - user experience
 - app lifecycle management
 - integration and APIs
 - vision & roadmap
- Red Hat's worldwide market share on Container platform is currently ~40%
- SAP Data Hub is certified on Red Hat OpenShift
- On which platform would you put your business critical applications?

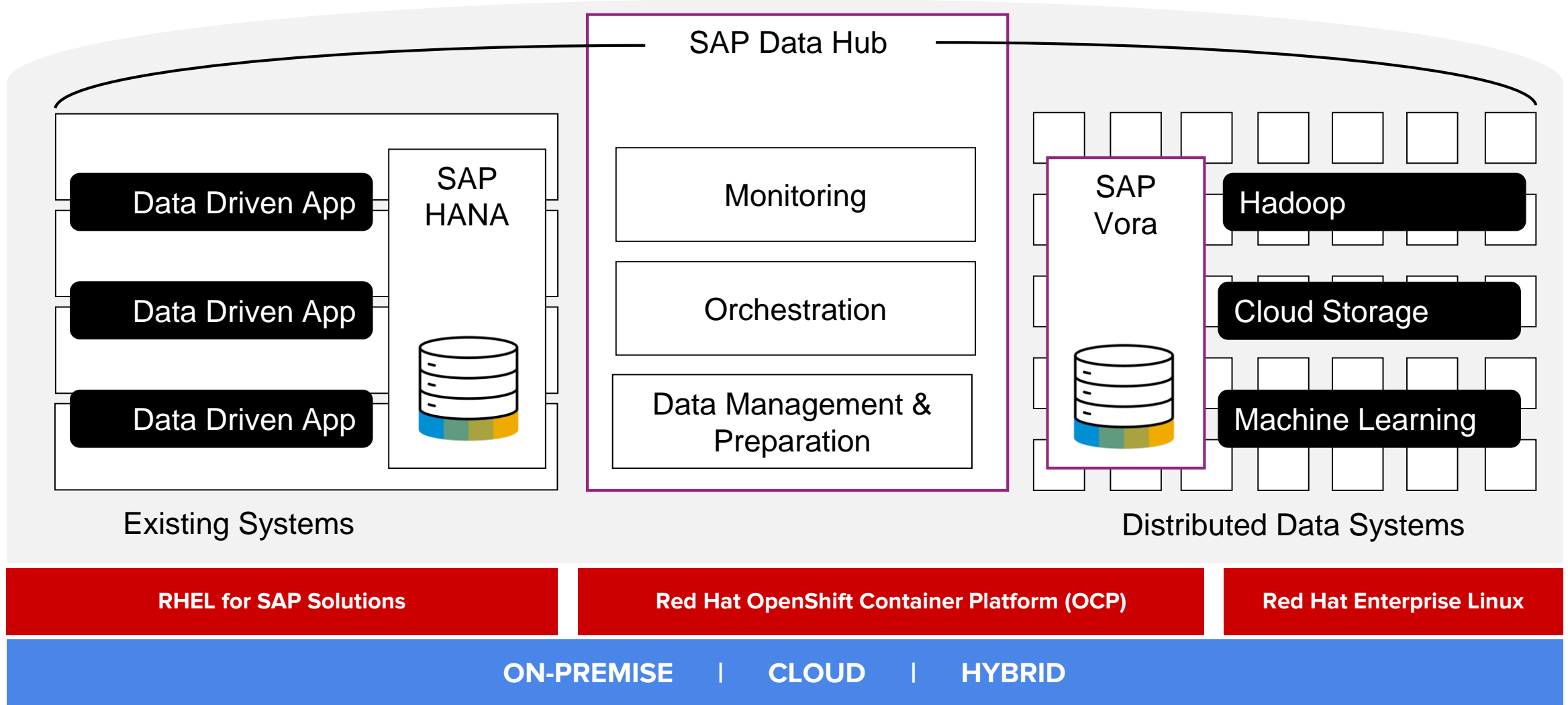


SAP Data Hub / Red Hat OCP Validation Matrix

SAP Data Hub / Vora	Red Hat OCP	Notes
SAP Data Hub Distributed Runtime 1.3	OCP 3.7	Installation Guide
SAP Data Hub Distributed Runtime 1.4	OCP 3.9	Blog: Install SAP Data Hub on Red Hat Platform
SAP Data Hub 2.3	OCP 3.9/3.10	SAP Data Hub 2.X on OpenShift Container Platform 3.Y SAP Data Hub 2.6 on OpenShift Container Platform 4
SAP Data Hub 2.4	OCP 3.10/3.11	
SAP Data Hub 2.5	OCP 3.10/3.11	
SAP Data Hub 2.6	OCP 3.11 OCP 4.1(AWS only)	
SAP Data Hub 2.7	OCP 4.1	
SAP Data Hub 2.7 Patch 3	OCP 4.2	Cloud, VMware vSphere (OCS 4) or (vSphere volumes)
SAP Data Intelligence 3.0	OCP 4.2	June 2020

- SAP Note [2686169](#) - Prerequisites for installing SAP Data Hub 2
- SAP Note [2693555](#) - SAP Data Hub 2: Supported Remote Systems and Data Sources
- The following matrix has been validated by Red Hat (version March 2020)

Complete coverage provided by Red Hat Platforms for SAP Solutions



Get started with SAP Data Hub and Red Hat OpenShift

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OPENSIFT

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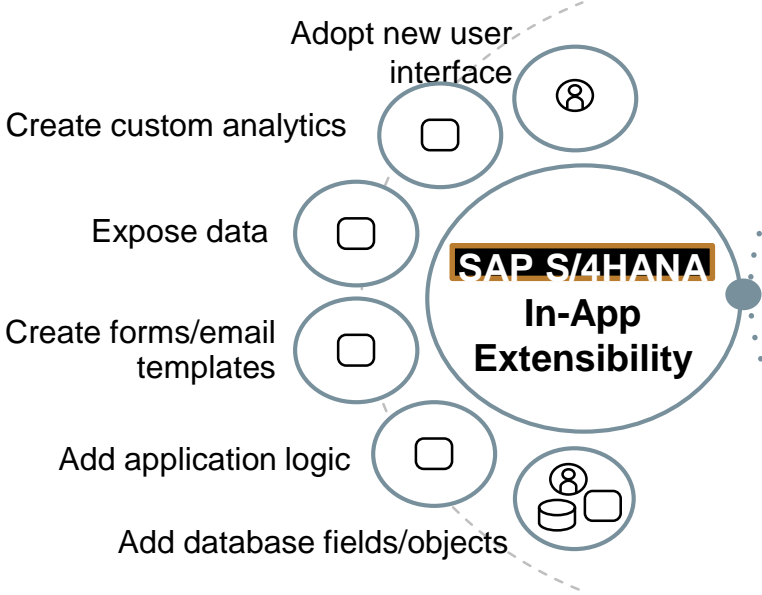
Agenda

- SAP Side-by-Side Extensions with SCP
- SAP Side-by-Side Extensions with SCP and OpenShift
- SAP & IBM Collaboration with SCP and OpenShift

**SAP Cloud Platform
with
Red Hat OpenShift**

SAP Side-by-Side Extensions with SCP

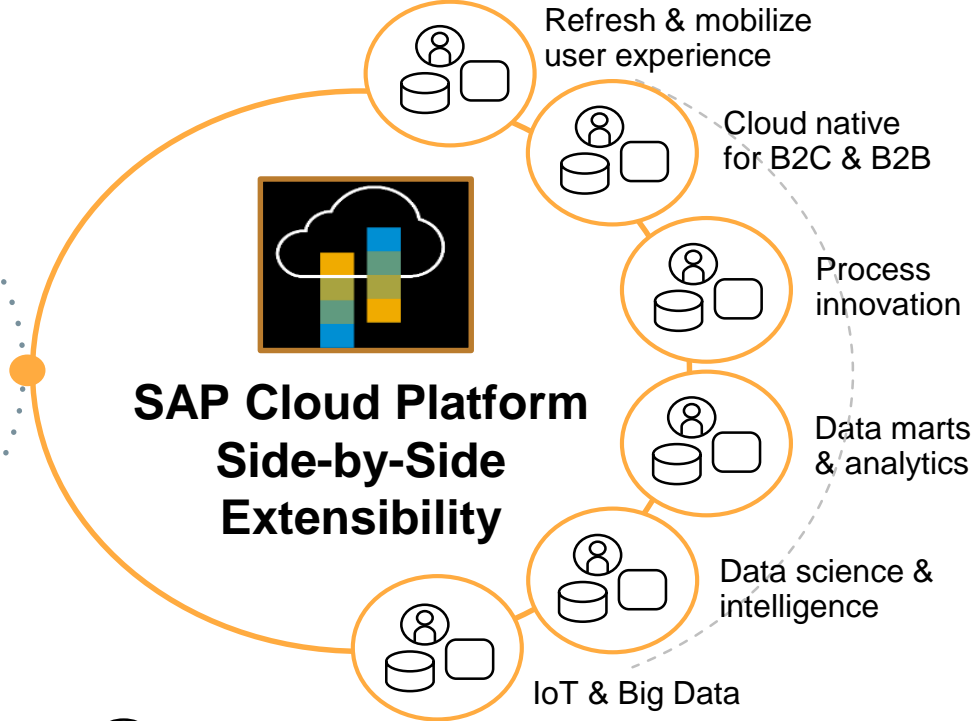
Classic Extensions



Integration

- User Interface
- Rules / Workflow
- Process / Events
- Data Replication

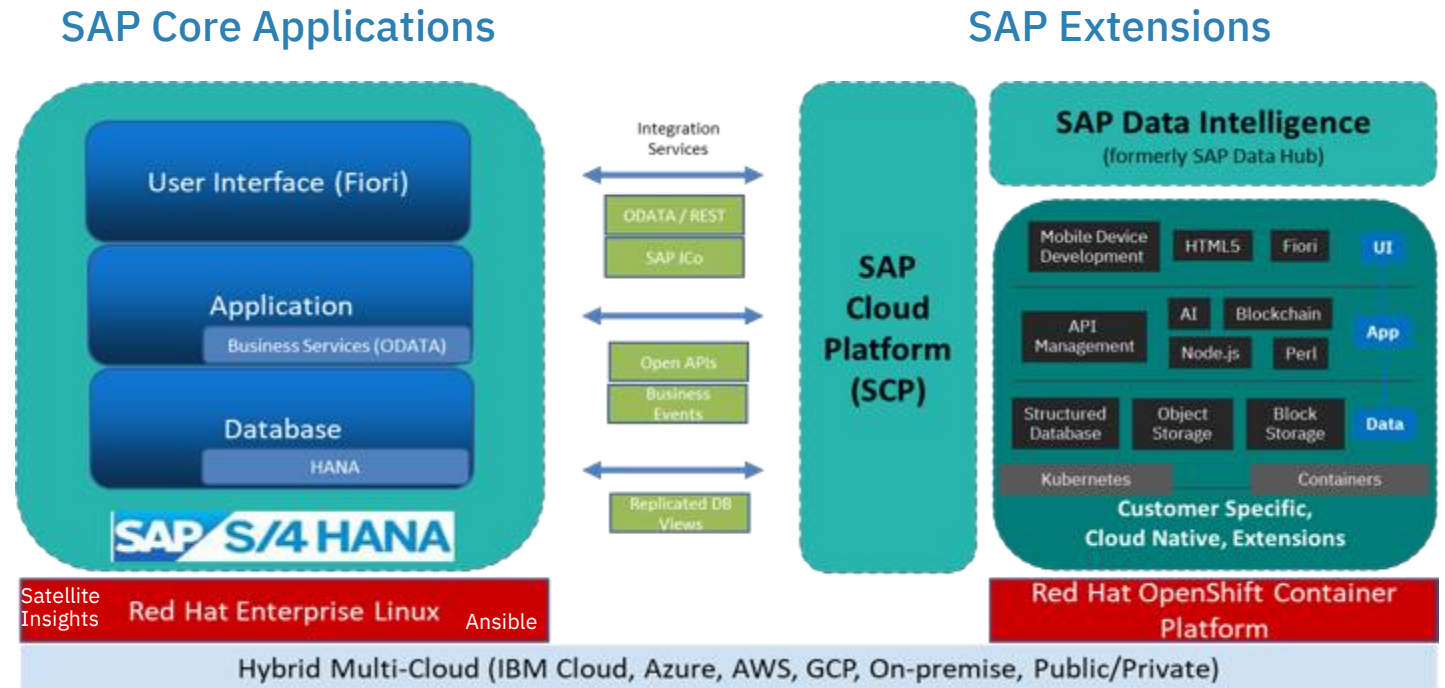
Modern Extensions



User Interface Layer Application Layer Database Layer

SAP Side-by-Side Extensibility with SCP and Red Hat OpenShift Provides on-premise and Cloud Independence

- The future of extending SAP is to minimize modification of the Digital Core using “side car” Cloud-native platforms, such as SAP Cloud Platform and OpenShift
- Modification of Core application source code breaks the ability to perform functional upgrades of SAP cost effectively
- Key efficiency objective: *Develop once, deploy anywhere.*



- OpenShift is an on-prem/Cloud, application-independent, Cloud-native development and runtime environment used by half of the Fortune 500
- Red Hat OpenShift ensures SAP extensions/customizations can be run on-premise or on any major Cloud provider, and are reliable and scalable
- SAP and IBM have plans to run SCP on OpenShift, SAP Data Intelligence already runs on OpenShift

SAP Cloud Platform - Private Edition & OpenShift

Mitigate risk on your journey to cloud - hybrid is the new data center!
Containers & Kubernetes > the technology to make it happen.



New announced - May 2020!

Customer Choice & Benefits

“To support customers on their journey towards hybrid cloud adoption, **SAP & Red Hat** collaborate to enable **SAP Cloud Platform - Private Edition** and related backing services to run on **Red Hat OpenShift Container Platform.**”

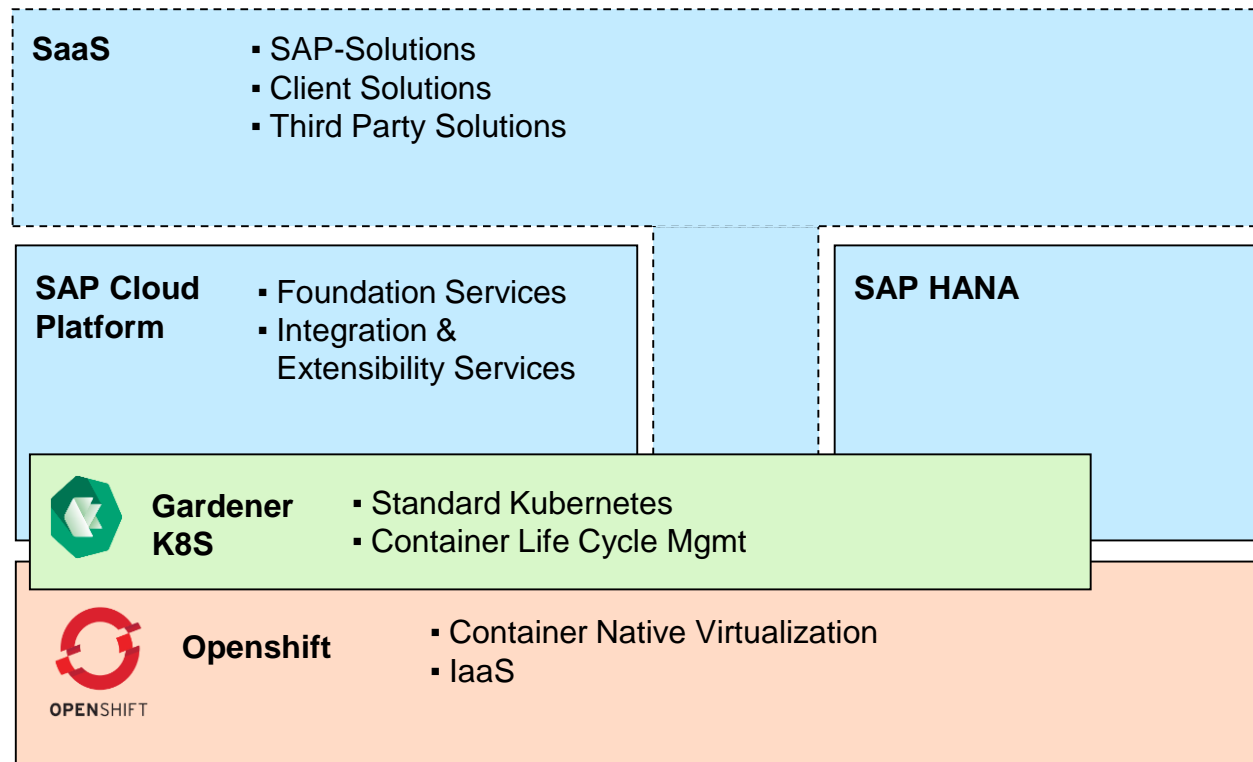
Bringing the strength of a commercial distribution of Kubernetes to the microservice architectures, containerization and DevOps model of SAP’s future digital enterprise.

- App. Developm.: “Develop once & deploy anywhere”
- Installation: “Automated install across platforms”
- Customization: “Customize Apps & apply anywhere”
- Migration: “Migrate to platforms with reduced effort”
- Integration: “Integrate your Apps across multi-clouds”
- Maintenance: “Maintain Apps platform agnostic”
- Time to market: “Gain a strategic competitive advantage”
- Agility: “Be able to disrupt & generate new biz”

SAP & Non-SAP architecture can get together!

IBM & RED HAT | SAP Cloud Platform, private edition

Overview



Details

- Intelligent Enterprise use cases, delivered in stages
- Enables a first step towards cloud-based extensions to core SAP system
- Running in customer data center as cloud solution
- Gain benefits of cloud solutions in the area of speed and agility without leaving your data center
- Based on OpenShift Kubernetes distribution with enterprise grade security and robustness capabilities

