



Red Hat



Aug 4

Open Breakfast Club North America



Jochen Glaser (Red Hat) - Global Head of SAP Business
Michael Love (IBM) - SAP Alliance Technical Leader

Your presenters for today



Jochen Glaser

Red Hat Global Head
of SAP Business

jglaser@redhat.com
M + 49 173 3730144



Michael Love

SAP Alliance Technical Leader

love@us.ibm.com
+1 (815) 922-8119

RED HAT & SAP

Why does it matter?

PARTNERSHIP

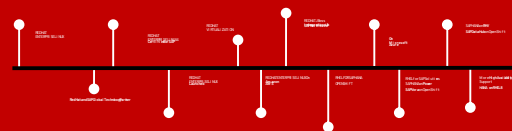


1st LINUX FOR SAP

SAP Venture Invested 1999
Accelerated Linux Success

21 YEAR PARTNERSHIP

Open-Source base for many
SAP Solutions & Innovations



CUSTOMERS

MORE THAN

310

FORTUNE 500

MORE THAN

+30%

NEW CUSTOMERS / YEAR



E2E INFRASTRUCTURE

Matching SAP's Technical Pillars
of the Intelligent Enterprise

RED HAT
INTEGRATION

RED HAT
OPENSIFT

RED HAT
ENTERPRISE LINUX

SAP Data Hub

Red Hat

RED HAT
INSIGHTS

Integration

Cloud Native

Intelligence

Next-Gen Data

Open Platform

Security

The only complete & open hybrid Infrastructure for SAP

End2End – Integrated - Lowest TCO - Future Ready - All Open Source - with all its benefits!

SAP Global System Integrators

S/4HANA

Analysis

Architecture

Migration

Production

New added!

INTEGRATION 3

RED HAT
INTEGRATION

API Management
Messaging & Integration
Side-by-Side Extensibility

INTELLIGENCE

SAP HANA
powered by RHEL

SAP Data Hub
powered by OpenShift

4 AUTOMATION

New added!

RED HAT
ANSIBLE
Automation

Development
Deployment
Maintenance

2 INTEROPERABILITY

New added!

RED HAT
OPENSIFT

OpenShift
Kubernetes
Cloud Foundry
Istio
Camel
Kyma

On-Premise
Multi-Cloud
Hybrid

PHYSICAL

VIRTUAL

PRIVATE CLOUD

Google

IBM Cloud

Microsoft Azure

IBM Cloud

1 INFRASTRUCTURE

RED HAT
ENTERPRISE LINUX

RED HAT
VIRTUALIZATION

RED HAT
INSIGHTS

RED HAT
SATELLITE

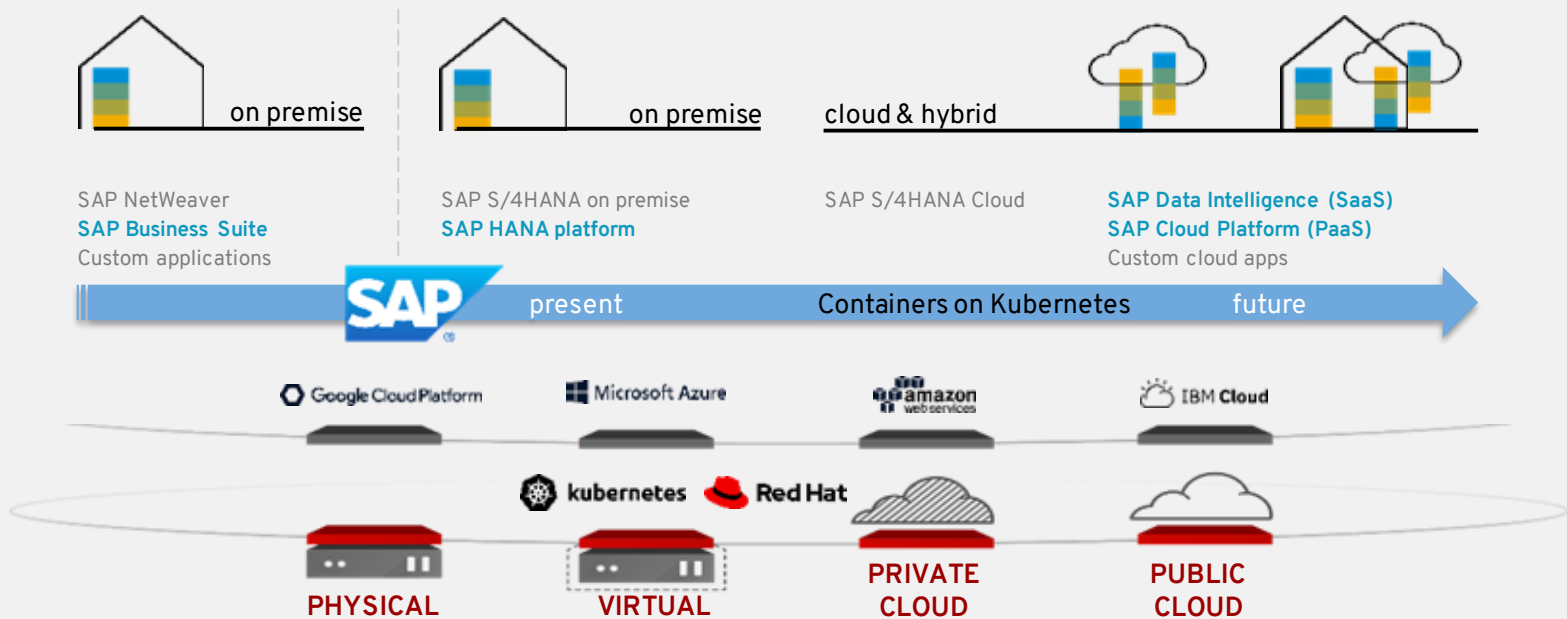
SAP NetWeaver
SAP HANA
SAP S/4HANA

#1 Leading Linux OS
#1 SAP Performance
#1 SAP Support

Advanced Built-In Security
High Availability
Persistent Memory

SAP & RED HAT – The Future Partnership

WHERE SAP AND RED HAT INTERSECT PRESENT AND FUTURE – INTEROPERABILITY



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!

“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.**”

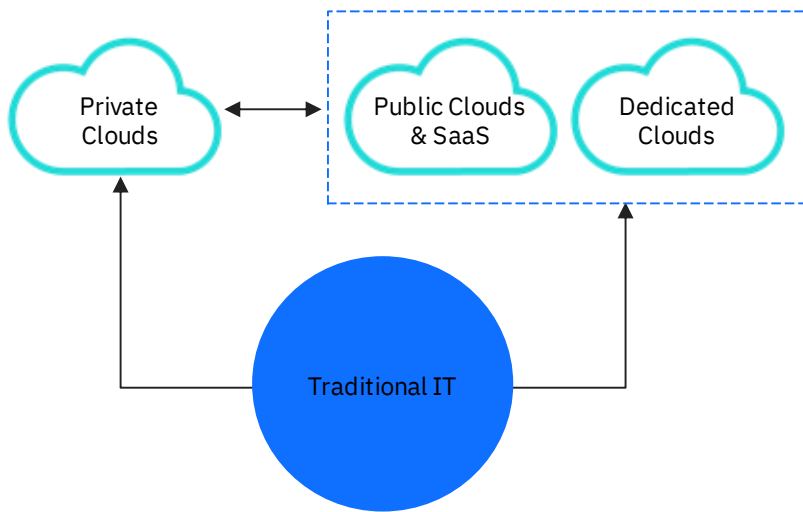
Bringing the strength of a commercial distribution of Kubernetes to the microservice architectures, containerization and DevOps model of SAP's future digital enterprise.

Customer Choice & Benefits

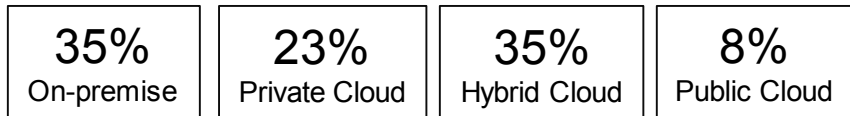
- | | | |
|--------------------------|-----------------|--|
| <input type="checkbox"/> | App. Developm.: | “Develop once & deploy anywhere” |
| <input type="checkbox"/> | Installation: | “Automated install across platforms” |
| <input type="checkbox"/> | Customization: | “Customize Apps & apply anywhere”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

SAP & Non-SAP architecture can get together!

A Look at the State of Journey to Cloud today



Where do SAP customers plan to run SAP S/4HANA?



A Real World Look at Hybrid-Cloud

80%

of enterprise workload have not been migrated to Cloud yet
(represents “Chapter 2” of the global Cloud era)

94%

of enterprise customers require solutions optimized for hybrid-cloud
(public and/or private / on-premise)

67%

of enterprise customers are using more than one public cloud provider
(expected to remain constant or increase by 2022)



Movement between clouds

73%

priority concern



Connectivity between clouds

82%

priority concern



Consistency of management

67%

priority concern

SAP Clients Face Additional Transformation Challenges Outside of their Control

ALL SAP customers have to migrate to S/4HANA by **2027+**

2020: 73% - Percentage of companies who have not yet begun the move from SAP ECC to SAP S/4HANA

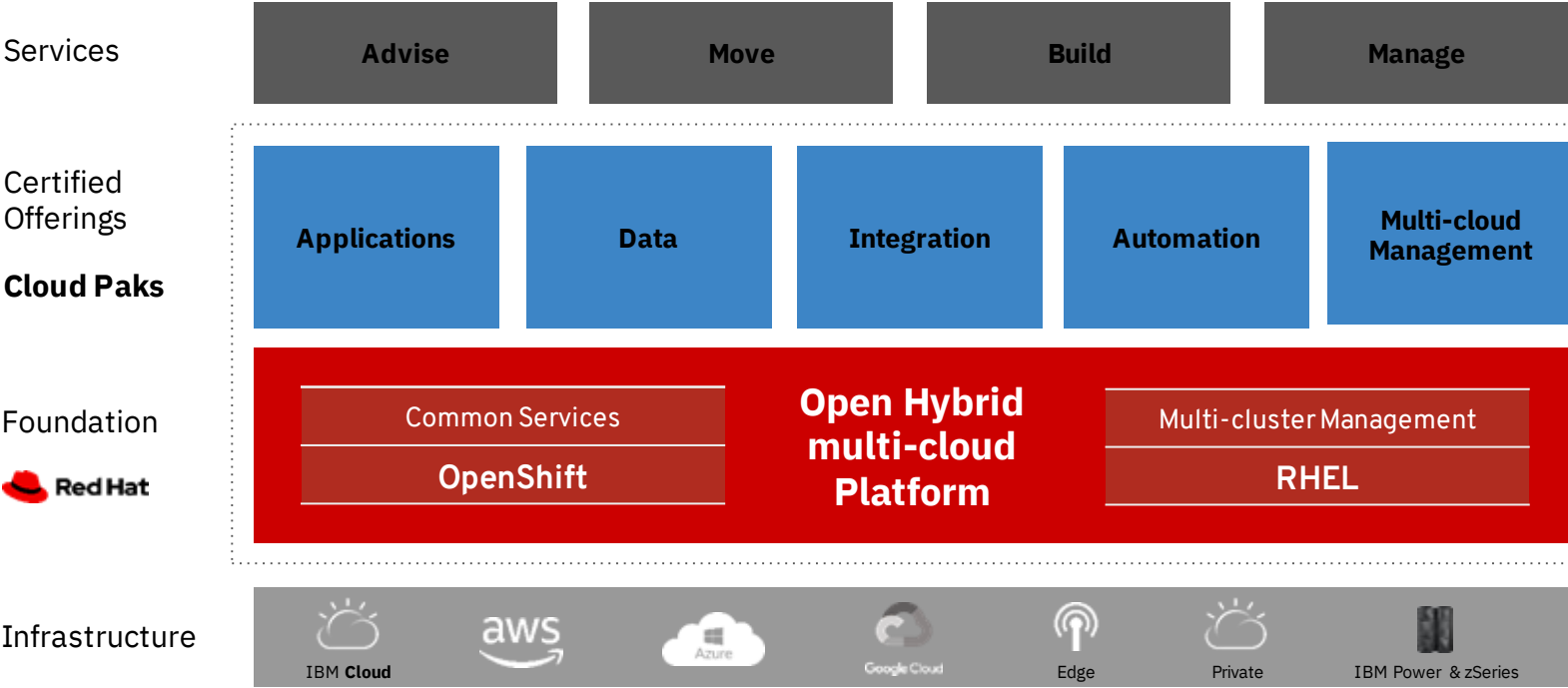


S/4HANA and SAP HANA run only on Linux

Red Hat Enterprise Linux is ready & certified!

How will SAP enterprise clients develop and execute a Cloud migration strategy and an S/4HANA migration strategy at the same time by 2027+?

IBM - Next Generation Hybrid multi-cloud Platform



Linux is the foundation for open.
Red Hat is the leader.

54%

of public cloud
apps run on Linux

#1

most used platform for
development today

79%

of container hosts
are Linux

71%

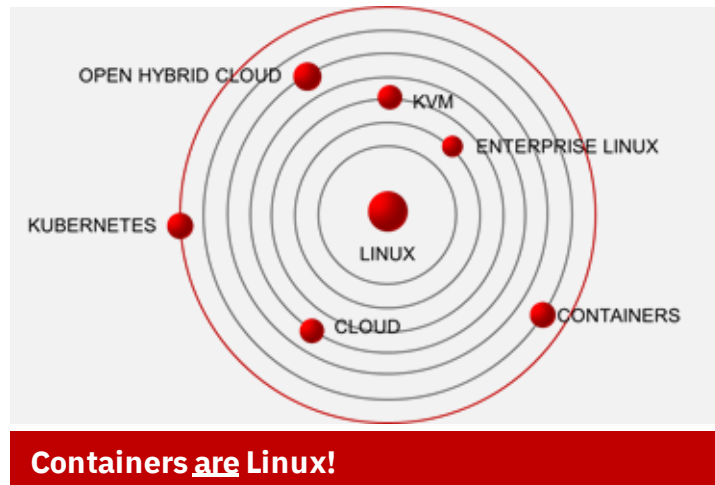
paid market share is Red Hat Enterprise Linux

#2

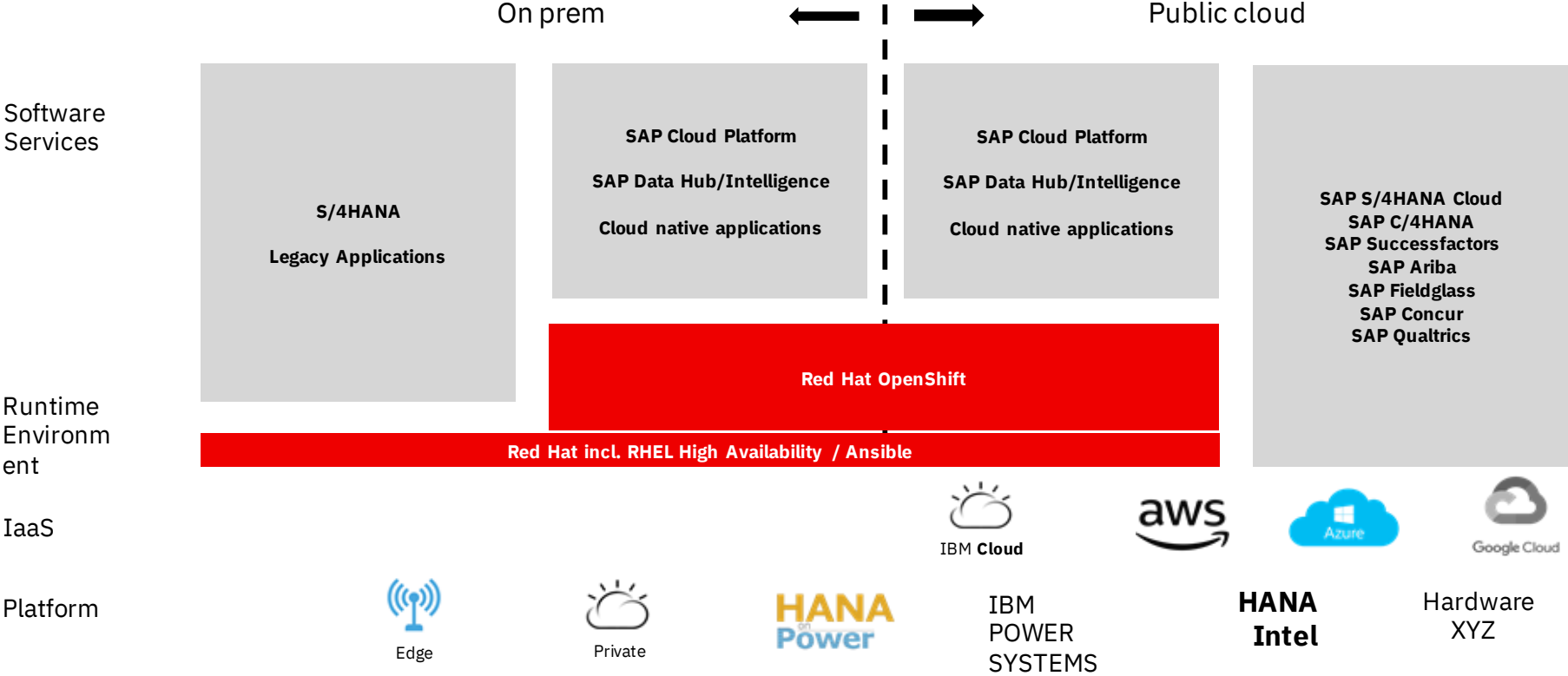
contributor to kubernetes open source



Red Hat

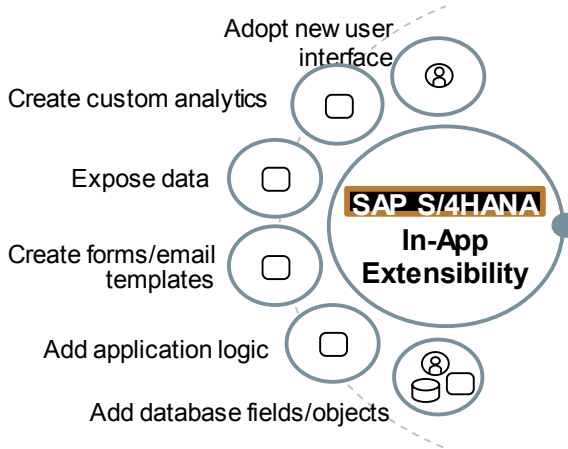


IBM & RED HAT for SAP | Targeting to any kind of platform



IBM & RED HAT for SAP | Targeting to any kind of platform

Classic Extensions

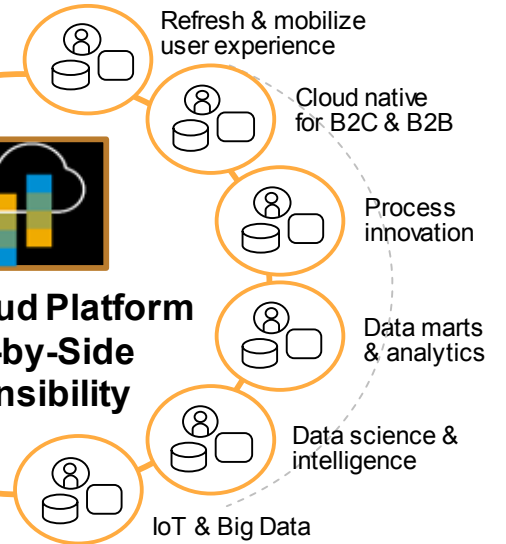


Integration

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

Modern Extensions

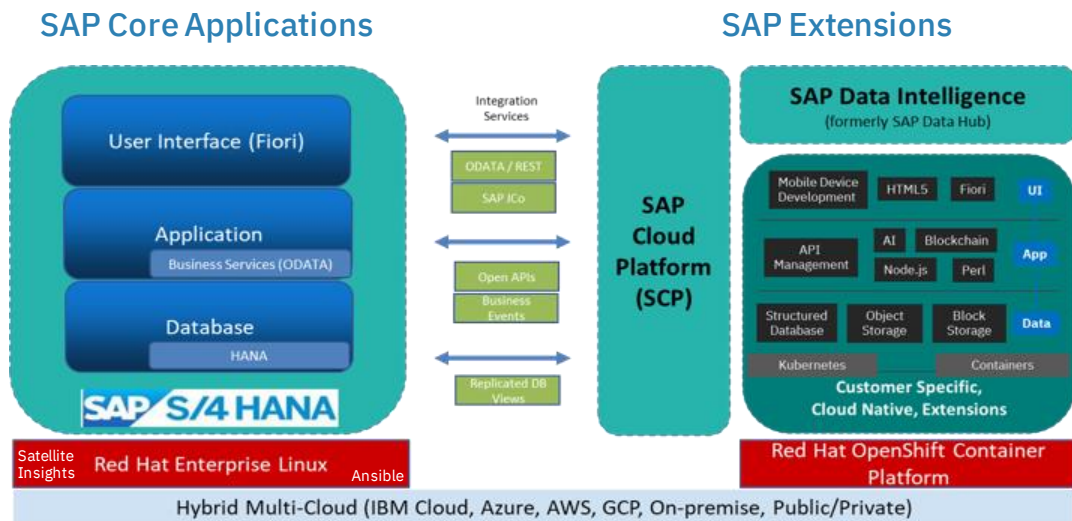
SAP Cloud Platform Side-by-Side Extensibility



User Interface Layer Application Layer Database Layer

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

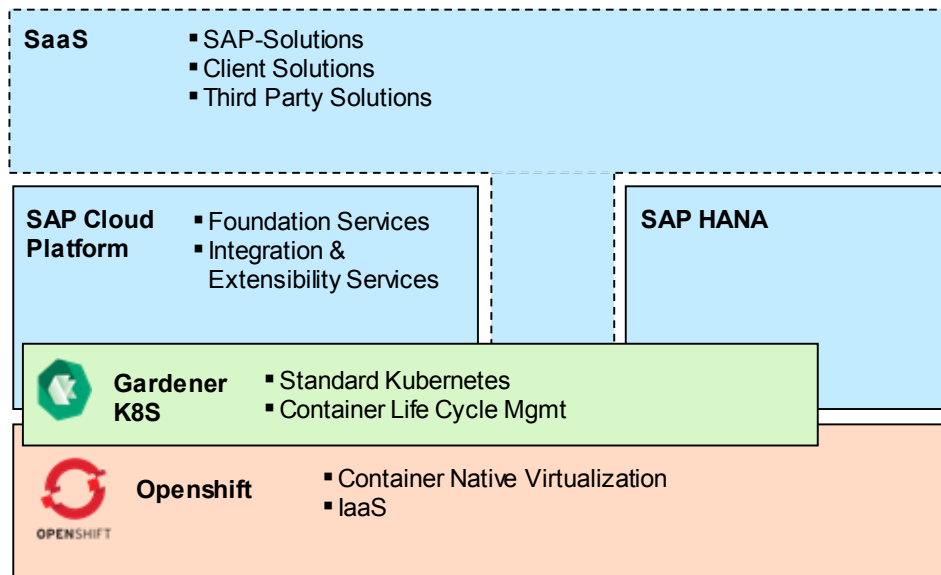
- The future of extending SAP is to minimize modification of the Digital Core using “side car” Cloud-native platforms, such as SAP Cloud Platform and OpenShift
- Modification of Core application source code breaks the ability to perform functional upgrades of SAP cost effectively
- Key efficiency objective: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

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