Eliminate Your SAP S/4HANA Operation Burden With Red Hat Automation

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NA SAP Lead, **Red Hat**

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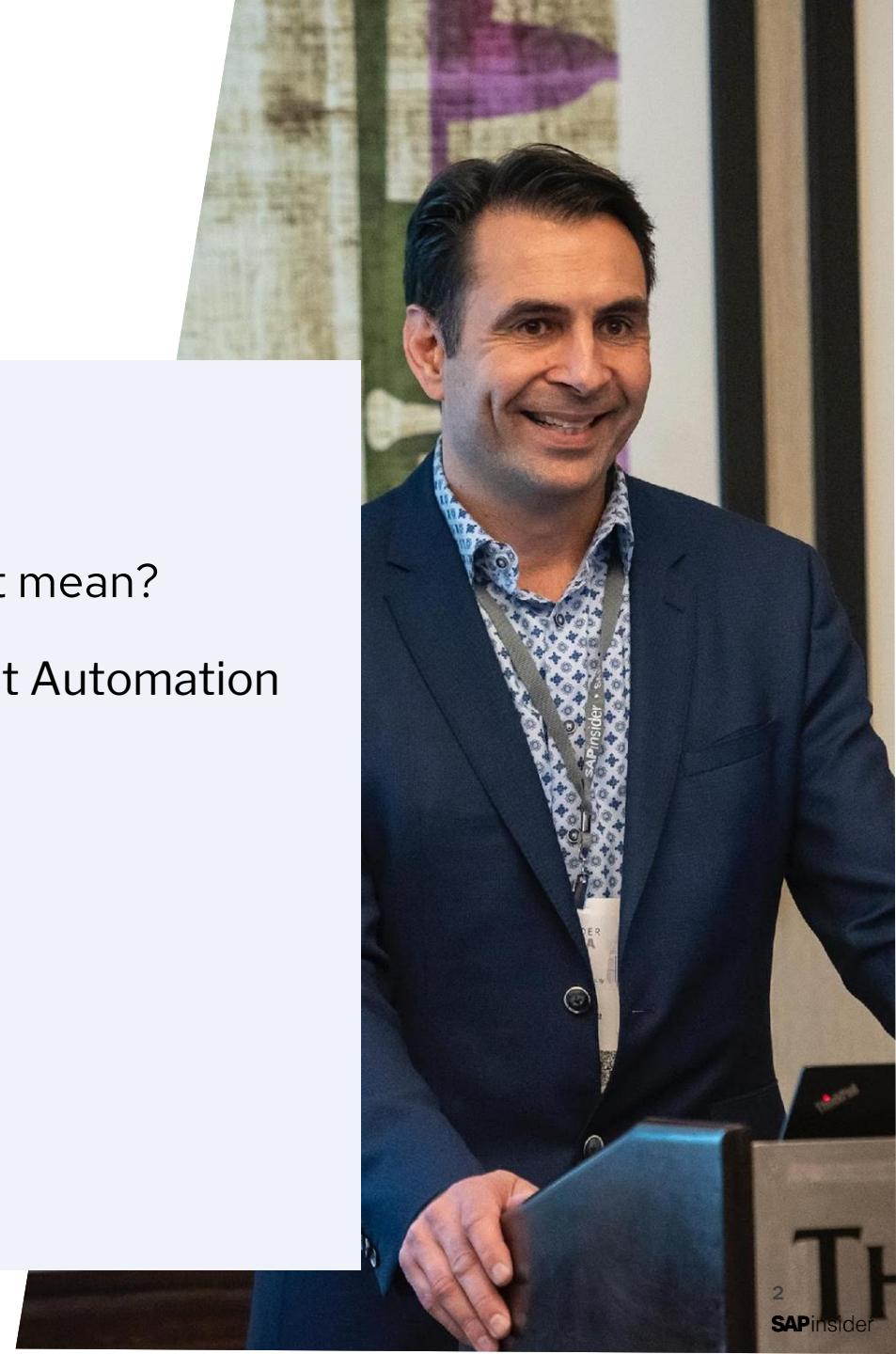Sr. SAP Solution Architect, Red Hat

SAPinsider
Las Vegas

2023

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What We'll Cover

- SAP – Red Hat press release ... what does it mean?

- Reducing Operational Burdens with Red Hat Automation

- Wrap-Up & Resource

Topic 1

**SAP – Red Hat press release …
what does it mean?**

SAP News Center

Press Room

SAP and Red Hat Deepen Partnership to Power SAP Software Workloads with Red Hat Enterprise Linux

Press Release **by SAP News**
February 1, 2023 🔥

SAP link   red.ht/SAPNEWS

- *Red Hat and SAP extend support for the RISE with SAP solution on Red Hat Enterprise Linux, **the preferred operating system** for net new business for RISE with SAP solution deployments*

This collaboration aims to enhance intelligent business operations, support cloud transformation across industries and **drive holistic IT innovation.**

This joint initiative to extend SAP software workloads on Red Hat Enterprise Linux is intended to make it easier for SAP customers to achieve greater business agility, accelerate cloud deployments and drive business innovation by building on Red Hat's scalable, flexible, **open hybrid cloud infrastructure.** Customers can now more readily streamline cloud transformation projects based on SAP software, including **SAP S/4HANA,** based on the RISE with SAP solution underpinned by Red Hat Enterprise Linux.

The world's leading provider of open source enterprise IT solutions

More than
90%
of the
Fortune
500
use
Red Hat
products and
solutions[1]

~19,500
employees

105+
offices

The first
$3
billion
open
source
company
in the world[2]

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Why Red Hat for SAP ?

Credibility

More than 90%

of companies in the Fortune 500
use Red Hat Enterprise Linux[1]

Red Hat named a **leader in**

multicloud container development platforms

in the Q3 2020 Forrester Wave Report[2]

Red Hat named a **leader in**

infrastructure automation platforms

in the Q3 2020 Forrester Wave Report[3]

Confidence

20+ year partnership

with SAP

SAP *preferred* OS

For net new Rise for SAP solution
development

Co-innovators with SAP

around multicloud, open source, and
Kubernetes technology

Consistency

Red Hat is the only vendor

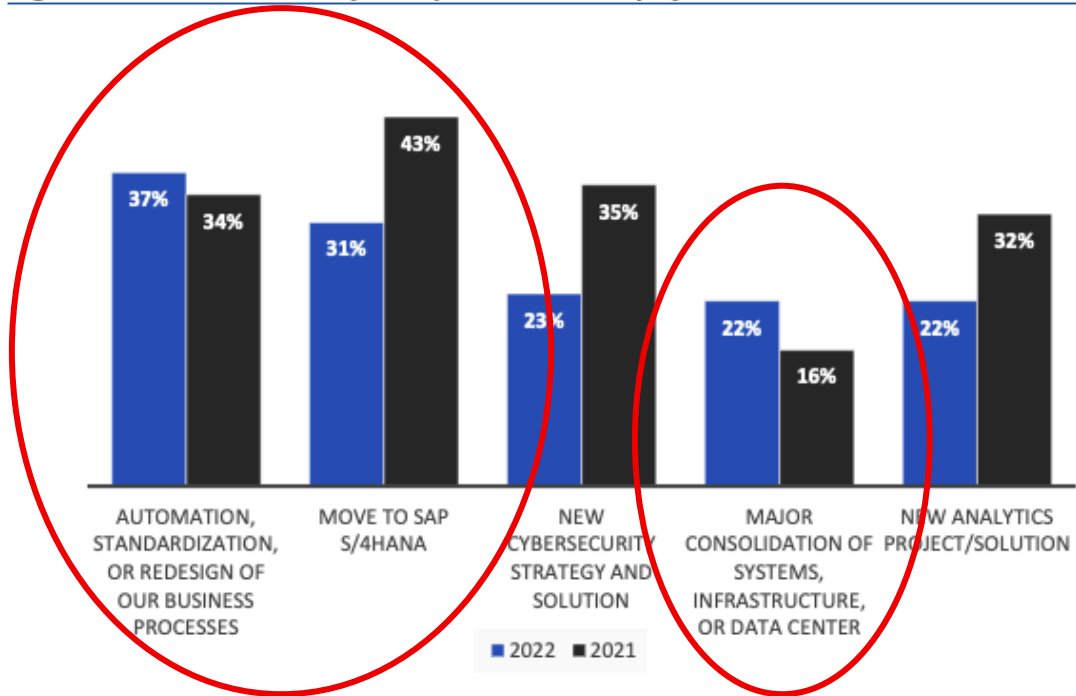with a complete and **open hybrid cloud**
infrastructure for SAP workloads

Our turnkey portfolio provides

scalability, stability and flexibility

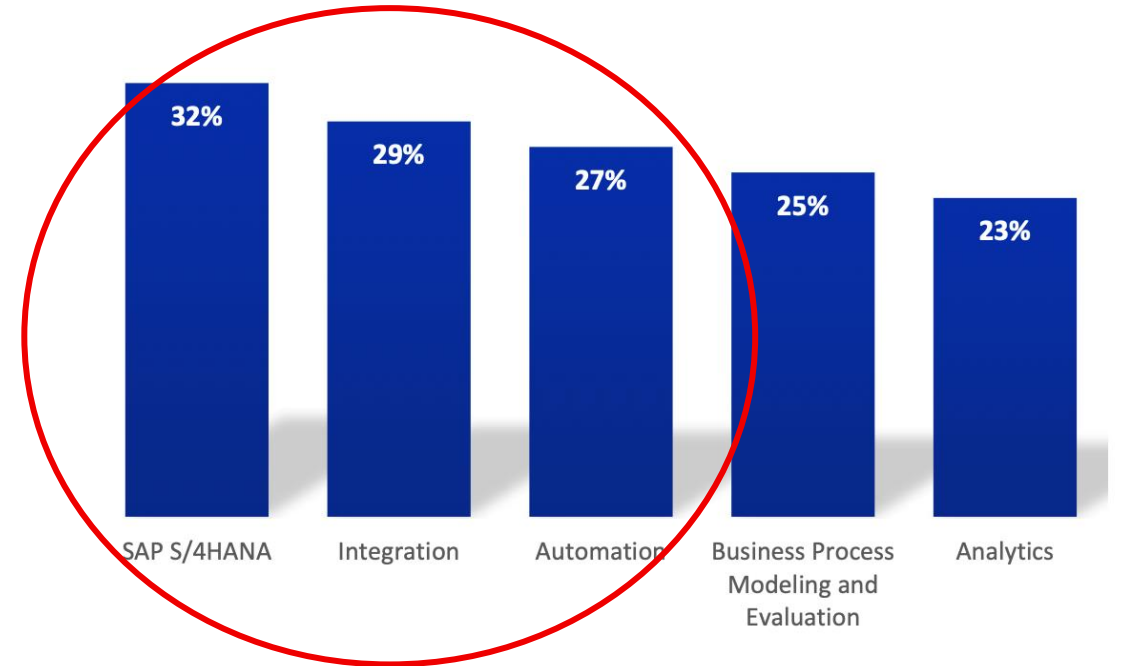Red Hat helps enterprises prepare
for anything by

avoiding vendor lock-in

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Figure 1: What best describes your top transformation project for 2022?

AUTOMATION, STANDARDIZATION, OR REDESIGN OF OUR BUSINESS PROCESSES — 37% (2022), 34% (2021)

MOVE TO SAP S/4HANA — 31% (2022), 43% (2021)

NEW CYBERSECURITY STRATEGY AND SOLUTION — 23% (2022), 35% (2021)

MAJOR CONSOLIDATION OF SYSTEMS, INFRASTRUCTURE, OR DATA CENTER — 22% (2022), 16% (2021)

NEW ANALYTICS PROJECT/SOLUTION — 22% (2022), 32% (2021)

■ 2022 ■ 2021

Source: SAPinsider, December 2022

Figure 6: Top skills needed for transformation success

SAP S/4HANA — 32%
Integration — 29%
Automation — 27%
Business Process Modeling and Evaluation — 25%
Analytics — 23%

Source: SAPinsider, December 2022

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Red Hat and SAP
A future built on interoperability

Open

Hybrid

Everything-as-a-Service **Modern apps** **Containers and microservices** **ISVs**

standardize *automate* modernize

future

Physical **Virtual** **Private cloud** **Public cloud** **Edge**

POWERING SAP BTP

SAP SuccessFactors SAP Ariba SAP S/4 HANA

3rd Party Applications,

HR Logistic Payment Production Controlling Material Mgt

ECC or S/4HANA on Premise
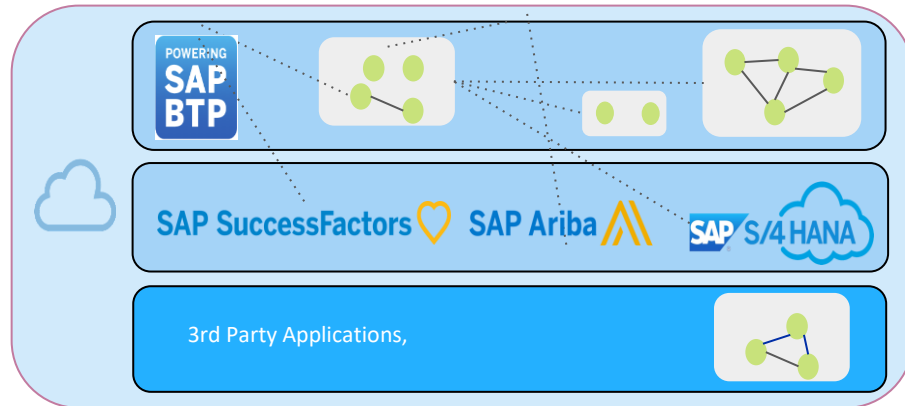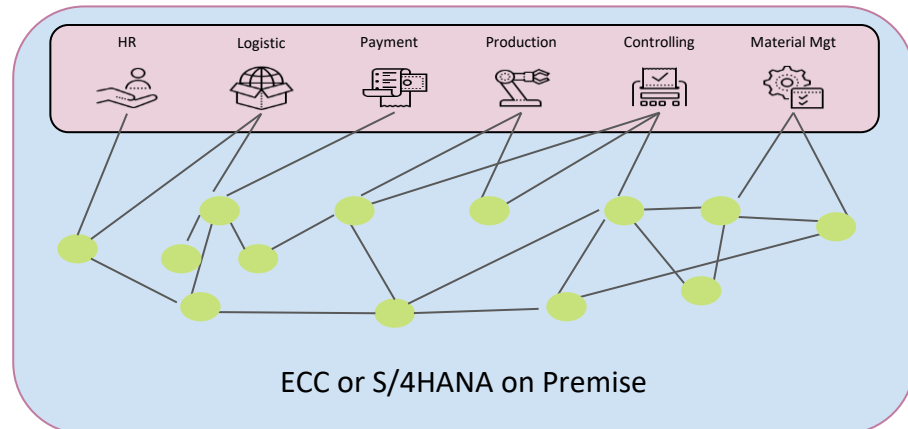
Topic 2

Reducing operational burdens with Red Hat Automation

Why Ansible?

SIMPLE

Human readable automation

No special coding skills needed

Tasks executed in order

Usable by every team

Get productive quickly

POWERFUL

App deployment

Configuration management

Workflow orchestration

Network automation

Orchestrate the app lifecycle

AGENTLESS

Agentless architecture

Uses OpenSSH & WinRM

No agents to exploit or update

Get started immediately

More efficient & more secure

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Benefits of Ansible Automation for SAP customers

System Provisioning

<20 min

SAP HANA setup

System Patching

<1 min

Near Zero Downtime
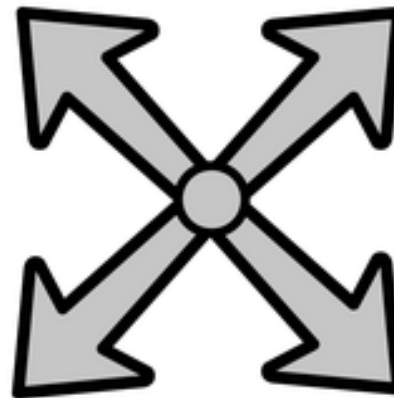
Predictable Management

99%

Reduced work hour for updating

Hybrid Cloud

60%

Efficiency gains

What can I do with Ansible?
Automate the deployment and management of your entire IT footprint

Do this...

Configuration Management	Orchestration	Application Deployment	Provisioning	Continuous Delivery	Security and Compliance

On these...

Firewalls	Load Balancers	Applications	Containers	Clouds
Servers	Infrastructure	Storage	Network Devices	**And more...**

A connected partner ecosystem
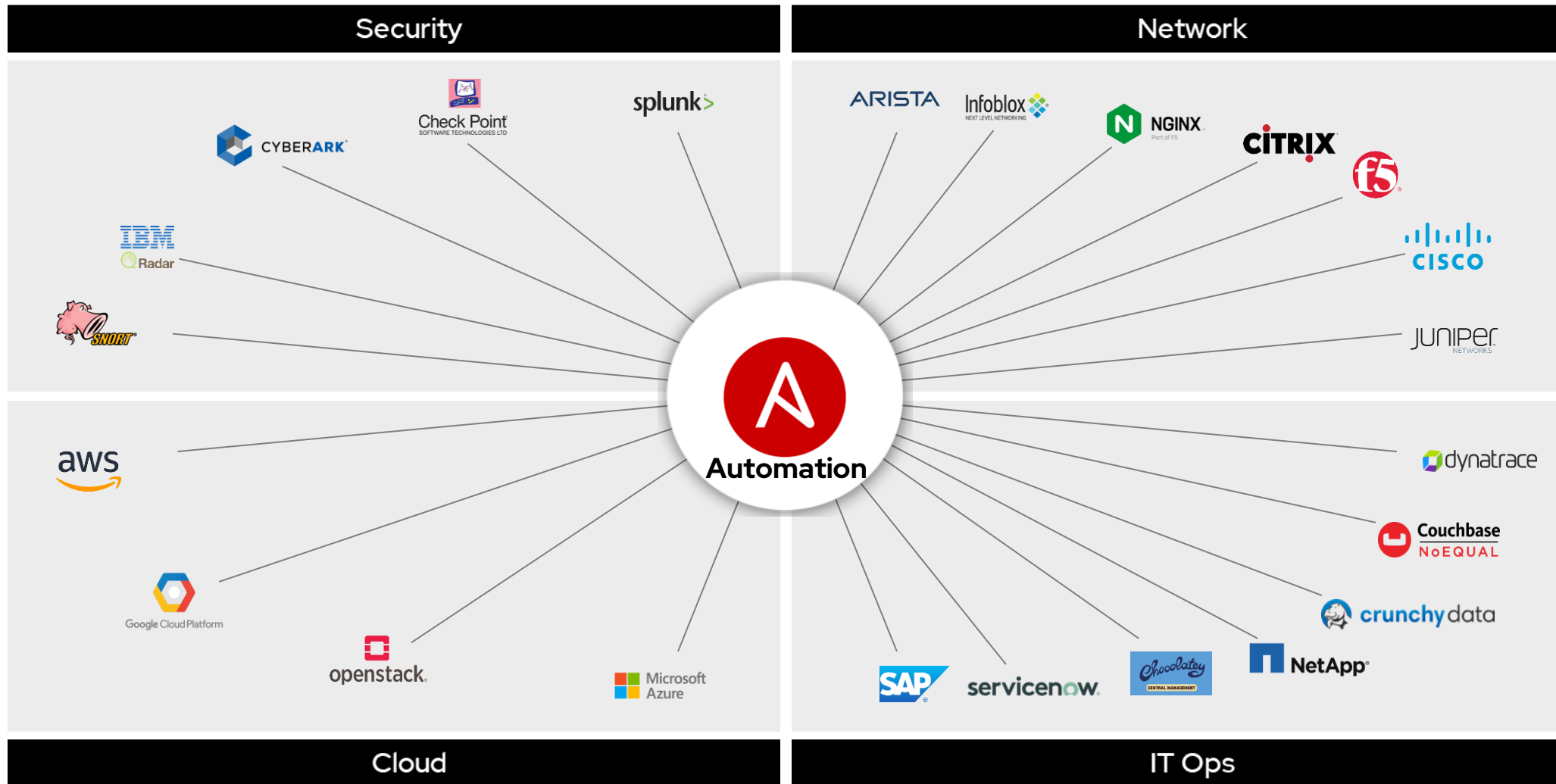
Day x operations concept and its placement in IT operations

Provisioning,
installation and setup,
configuration,
handover to support

Deactivation,
decommission,
sent to cold storage,
clean-up

Day 0

Day 2

Day 1

End of life

Planning,
architecture decisions,
design

Keeping the lights on,
maintenance,
housekeeping,
optimization

The Complete and Open Hybrid Infrastructure for SAP

SAP Global System Integration

Consulting | Analysis | Architecture | Migration | Production

Modernization	Integration	Intelligence	Automation
Red Hat OpenShift — Side-by-Side Extensions	**Red Hat Integration** — API Integration & Connectivity	**SAP S/4 HANA** powered by RHEL **SAP Data Intelligence** powered by OpenShift	**Red Hat Ansible** — Deployment & Day 2 operations

Interoperability

Red Hat OpenShift kubernetes K Istio Gardener Kyma

On-Premise Multi-Cloud Hybrid PHYSICAL VIRTUAL PRIVATE CLOUD Google amazon web services Microsoft Azure IBM Cloud Alibaba Cloud *

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

V20221130   **Red Hat**

* Supported for RHEL now; targeted for OCP 4.9 by Q4 2021

The Complete and Open Hybrid Infrastructure for SAP

Automation

Red Hat Ansible — Deployment & Day 2 operations

Infrastructure
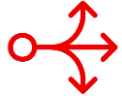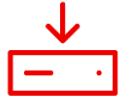
| Red Hat Enterprise Linux | Red Hat Virtualization | Red Hat Insights | Red Hat Satellite | SAP NetWeaver SAP HANA SAP S/4HANA | #1 Leading Linux OS #1 SAP Performance #1 SAP Support | Advanced Built-In Security High Availability Persistent Memory |

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Red Hat

* Supported for RHEL now; targeted for OCP 4.9 by Q4 2021

Automating Day 1 operations for SAP workloads

Provisioning of the target node(s) (VMs)

Installation of Red Hat Enterprise Linux on VMs; activation of Red Hat Enterprise Linux subscriptions, initial patching

DB installation (SAP HANA or any other SAP supported DB)

Installation of SAP S/4HANA (or SAP NetWeaver)

Migration of SAP workloads to a cloud environment

Activation of SAP HANA system replication (or equivalent high-availability feature of other DBs)

High-availability Red Hat Enterprise Linux Pacemaker cluster build on both application and DB tiers

Red Hat Insights agent activation

Migration of SAP workloads from Suse Linux Enterprise Server to Red Hat Enterprise Linux

Automating Day 2 operations for SAP workloads

Ansible Application Platform Certified Content

- Kernel parameter changes
- SAP kernel upgrade
- DB operations
- SAP instance system copies
- Cluster management
- DB backup/restore
- Stop/start SAP instances
- DB and OS patching

- Resource addition (CPU, memory, disk)
- Smart management and proactive issue resolution for SAP servers
- Instance Refresh
- Decommission systems and pulling to/from cold storage
- Near-zero downtime maintenance for SAP servers
- Add/delete new application servers on demand (namely for hyperscalers)

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Red Hat Automation Hub

With the release of Red Hat Ansible Automation Platform, **Ansible Content Collections** represent the new standard of distributing, maintaining and consuming automation.

By combining multiple types of Ansible content (playbooks, roles, modules, and plugins), **flexibility and scalability** are greatly improved.

Ansible Content Collections are **fully supported within Ansible**, and documentation is made available for consuming and developing such.

Wrap Up

Red Hat Automation saves you time and accelerates innovation

Business value of Ansible Automation Platform

Significant ROI

667%

over 5 years

Reduced Risk

30%

more efficient security teams

Better Collaboration

30%

more efficient teams

Increased Revenue

1.95M

total new revenue gained/year

Improved Productivity

76%

reduction in unplanned downtime

Faster Time-to-Market

39%

more applications developed each year

*Sources: The Business Value of Red Hat Ansible Automation Platform and AnsibleFest 2021 session, IDC, October 2021

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Ansible Automation Platform References

In Closing...

I think I'm a
Type-O

Typos

Ansible doesn't make them.

Key Points to Take Home

- SAP & Red Hat Deepened our Relationship

  - Preferred OS for Rise with SAP
  - Innovation & Open Hybrid Cloud

- Red Hat Ansible Automation Platform provides a powerful automation platform for the entire SAP life cycle

- Red Hat offers a holistic approach for SAP automation and modernization

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Where to Find
More Information

- **Red Hat Ansible Automation Platform for SAP S/4HANA migration**

- **Automating your SAP HANA and S/4HANA by SAP deployments using Ansible (SAP Blogs Part 1, 2, 3 and 4)**

- **Smart Management for SAP**

- **Sales Brief** - Red Hat AAP for SAP Migrations

- **You Tube** - For SAP Customers

- **E-book** - Reducing downtime for SAP HANA

- **Virtual training** - Red Hat Ansible for SAP

Thank you! Any Questions?

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