

Von der Automatisierung zur intelligenten IT

Agenda

Von der Automatisierung zur intelligenten IT

1

Ansible Automation
Platform

wie AI-gestützte Funktionen Automatisierung
einfacher, schneller und effizienter machen

2

Red Hat AI

die offene Plattform für Entwicklung, Betrieb
und Skalierung von KI-Anwendungen.

3

OpenShift
Virtualization

Virtual Machines und Container auf einer
Plattform sowie Wege zur Modernisierung
bestehender Virtualisierungsumgebungen

01

AIOps meets Ansible

Speaker

Sejid Canoski

Technical Presales Consultant



Sejid.Canoski@tdsynnex.com



Technology leaders are squeezed from both sides

"We're doing the same tasks thousands of times per month."
"We must continually work to shorten MTTR."



01

Business perspective

- Delayed delivery of new services and applications
- Managing operational cost with fewer resources and skills gaps
- Siloed teams, no cross-functional workflows
- Downtime and slow ticket response / recovery
- Governance, risk & compliance pressure



02

IT perspective

- Tool sprawl, no centralized control or orchestration
- Repetitive, manual, error-prone processes across disparate environments
- Maintain legacy systems while adopting AI
- More alerts, more telemetry, more tools – moving faster than before

Enterprise automation is the foundation of any AI strategy

01

DIY automation

- Scripts, Python, Ansible core / AWX, assorted tools
- Internal teams carry all support and maintenance
- High total cost of ownership
- Hard to build end-to-end workflows



Proven

Delayed delivery of new services and applications



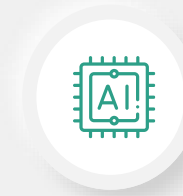
Capable

Dozens of use cases across IT domains

02

Red Hat Ansible Automation Platform

- A dozen+ upstream projects in one security-hardened enterprise platform
- Agentless, human-readable, works with nearly any stack
- Certified & validated content collections, 18-month life cycle
- Deploy on-prem, managed on public cloud, SaaS or hybrid



Intelligent

Gen AI to create and maintain content



Flexible

Any vendor, cloud or environment

Making IT Personal™

Four worlds are merging into one operating model



0 1

Infrastructure

is everywhere – network, OS, cloud, virtualization, containers, edge.



0 2

Business processes

span on-prem and multiple clouds, with ITSM as system of record.



0 3

Automation

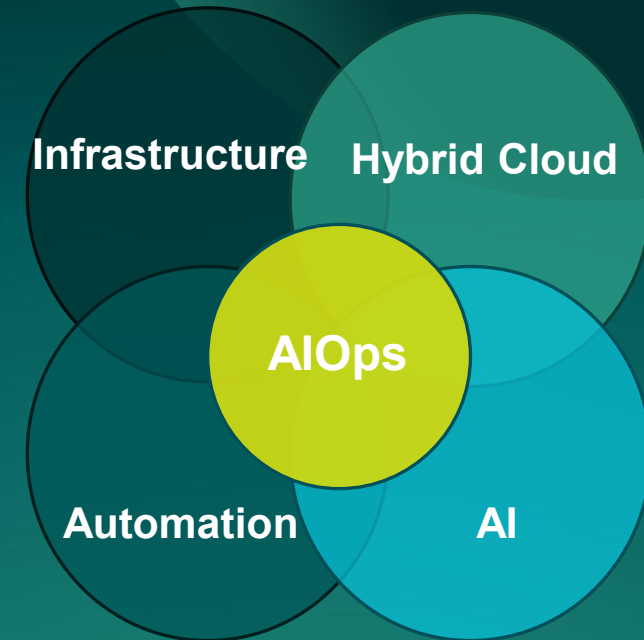
has moved from scripts to a strategic, mission-critical platform.



0 4

Artificial Intelligence

can now find the problem, write the fix and run it.



The question is no longer *whether* AI can act – but how to make its actions *governed, repeatable and safe.*

What is AIOps?



Artificial intelligence for IT operations – using data science, big data and machine learning to augment, or even automate, traditionally manual IT tasks.

The goal: *better issue detection, root-cause analysis and resolution.*



Collect & clean data

Observability

Understand the internal state of systems through logs, metrics and traces.

- Events, metrics, logs, config, security & streaming data
- Aggregate from networks, apps, databases and tools
- De-duplicate, correct, fill gaps
→ one source of truth



Apply AI / ML

Inference

AI models make predictions on live operational data – diagnose, classify, suggest a fix.

- ML detects patterns & anomalies
- NLP reads logs and tickets → root-cause analysis
- Gen AI summarizes incidents, proposes fixes
- Predictive analytics spots issues before they occur



Automated response

Automation

Automatically detect, respond to and resolve IT issues – governed and auditable.

- Policy-driven, self-healing workflows (e.g. restart a service, open a ticket)
- Repeatable at scale, less manual work
- Complex cases escalated to humans – system keeps learning

Making IT Personal™

From rules for every event to AI in the loop



0 1

Task-based

Run known playbooks on a schedule or trigger. Where most organizations are today.



0 2

Event-driven

React to known conditions with pre-written rules (Event-Driven Ansible). *Adoption growing.*



0 3

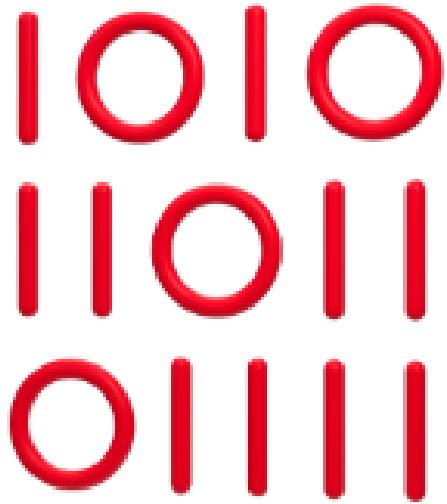
Agent-driven

Handle novel situations with real-time contextual judgment. *Emerging.*

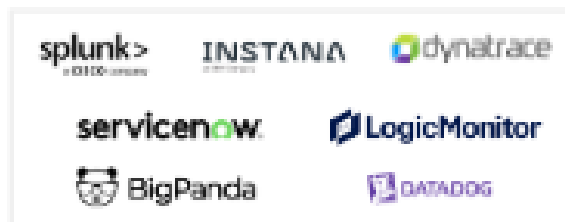
Approach	Events	Rules needed
Traditional EDA	10	10
Traditional EDA	100	100
Traditional EDA	1000	1000
AI Ops with EDA	1000	1 + AI inference

AI Ops with Ansible bridges **event-driven** and **agent-driven**: AI handles situations you never wrote a rule for – without requiring a fully autonomous agent.

Detection and analysis happen in many tools – Governed execution happens in 1



*Observability data +
AI-fueled intelligence*



AI Ops platforms tell you what's
happening.



Ansible Automation Platform
makes sure something actually
gets done about it - quickly and
reliably.



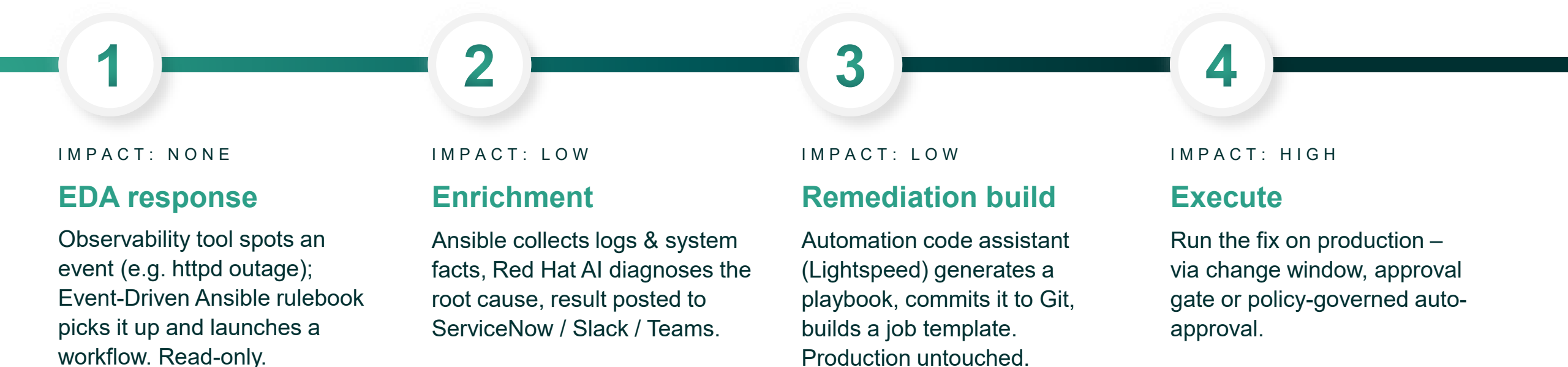
*Enterprise-trusted
execution at scale*

- ✓ Secure automation supply chain
- ✓ Enterprise-grade auditability
- ✓ Robust RBAC already in place

The self-healing AIOps workflow in four stages



How could it look like?



Stages 1–3 are safe to experiment with in any environment.

Multi-LLM: one model diagnoses, a second writes the Ansible playbook.

Git is the source of truth – every AI-generated fix is versioned and reviewable.

Automate the AI – and let AI drive automation



01

Standardize AI infrastructure

Manage AI platforms like any other infrastructure: provision, configure, serve and validate RHEL AI / OpenShift AI consistently across hybrid cloud.



02

Enable AIOps

Closed-loop AI automation for Linux and Windows: event → AI analysis → ITSM incident → generated playbook → resolved. Reactive becomes proactive.



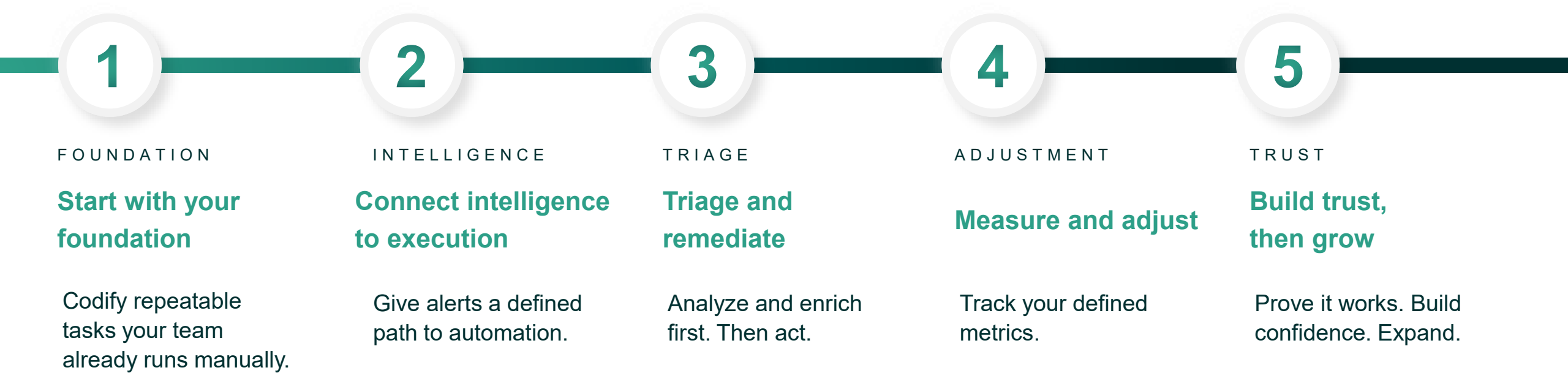
03

Enforce policy

Policy as code checked at automation runtime – intercept potentially harmful AI decisions before they happen; non-compliance escalates to a human.

Making IT Personal™

Getting started with AIOps



AIOps is the outcome – autonomy grows with trust



Stage	What AI does	Policy approach	Playbook source
<i>Crawl</i>	Interprets signals, enriches tickets – humans remediate. <i>No system changes.</i>	Human reviews every AI-generated playbook	Red Hat Lightspeed CVE & Advisor playbooks
<i>Walk</i>	Selects the right playbook from a pre-approved library; <i>human approves.</i>	Policy engine validates content; human approves execution	RHEL System Roles, curated libraries
<i>Run</i>	Generates new remediation on the fly – <i>self-healing infrastructure.</i>	Auto-approval within boundaries; exceptions escalate	Automation code assistant

Same architecture at every stage – the only difference is **how far down the pipeline you automate.**

Human-in-the-loop is what makes it production-ready:
the IDE is where review happens; AAP is where gatekeeping happens.

New capabilities in Red Hat Ansible Automation Platform 2.7



01

Optimize service delivery

The self-service automation portal - now available for deployments of Red Hat Enterprise Linux 9 and 10 - introduces a visual execution environment builder that eliminates manual configuration and enforces consistency.

A new centralized content catalog now enables administrators to aggregate trusted content, so developers can quickly find what they need.



02

Drive automation adoption at scale

Ansible Automation Platform is now an OIDC provider for HashiCorp Vault (Technology Preview), offering modernized identity management to support automation in zero trust environments. Automation jobs authenticate with short-lived, job-specific tokens instead of static service accounts, eliminating credential sprawl and minimizing attack surfaces.



03

Unlock AI-driven automation

MCP server for Ansible Automation Platform (now in Technology Preview), helps you bring an agentic, AI-driven approach to your operations. You can manage jobs, troubleshoot issues, and even launch workflows using natural language prompts. It's a faster, more intuitive way to automate at scale.



Making IT Personal™

Call to action

AI Ops automation with Ansible - Solution Guide



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Ansible

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☐ EDB PostgreSQL

☐ IBM Instana

☐ Red Hat AI

☐ ServiceNow

☐ NetBox

☐ Splunk

Solution Guide

AIOps automation with Ansible

Self-healing infrastructure using Event-Driven Ansible, Red Hat AI inference, and Ansible Lightspeed to detect, diagnose, and remediate incidents automatically.



Solution Guide

Automated Incident Remediation with IBM Instana

Closed-loop incident remediation integrating IBM Instana observability with Event-Driven Ansible for automatic detection, AI-driven job template routing, and self-healing infrastructure.



Implementation Guide

High-Availability AAP with EDB PostgreSQL DR

Multi-datacenter Active-Passive disaster recovery for Ansible Automation Platform using EDB Postgres Advanced Server and EDB Failover Manager with sub-5-minute RTO.



Solution Guide

AI Infrastructure automation with Ansible

Provision and configure Red Hat AI infrastructure -- from GPU instances to serving models -- using the infra.ai and redhat.ai collections.



Implementation Guide

Zero Trust Architecture with Ansible Automation Platform

Orchestrate identity and network controls across the central layer -- credentials, policy, workload identity, security response

Solution Guide

Intelligent Automation with Red Hat AI Inference Server

Deploy and configure LLM using Red Hat AI Inference Server on RHEL with hardware acceleration to power Ansible Lightspeed intelligent AAP.









02

Red Hat AI

Speaker

Markus Schreier

Solutions Architect



mschreie@redhat.com



Red Hat AI



Red Hat AI Enterprise

For enterprise AI, deploy and scale efficiently, anywhere



Red Hat OpenShift AI

For the distributed deployments in OpenShift



Red Hat AI Inference

For optimized inference of large language models at scale

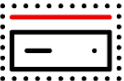


Red Hat Enterprise Linux AI

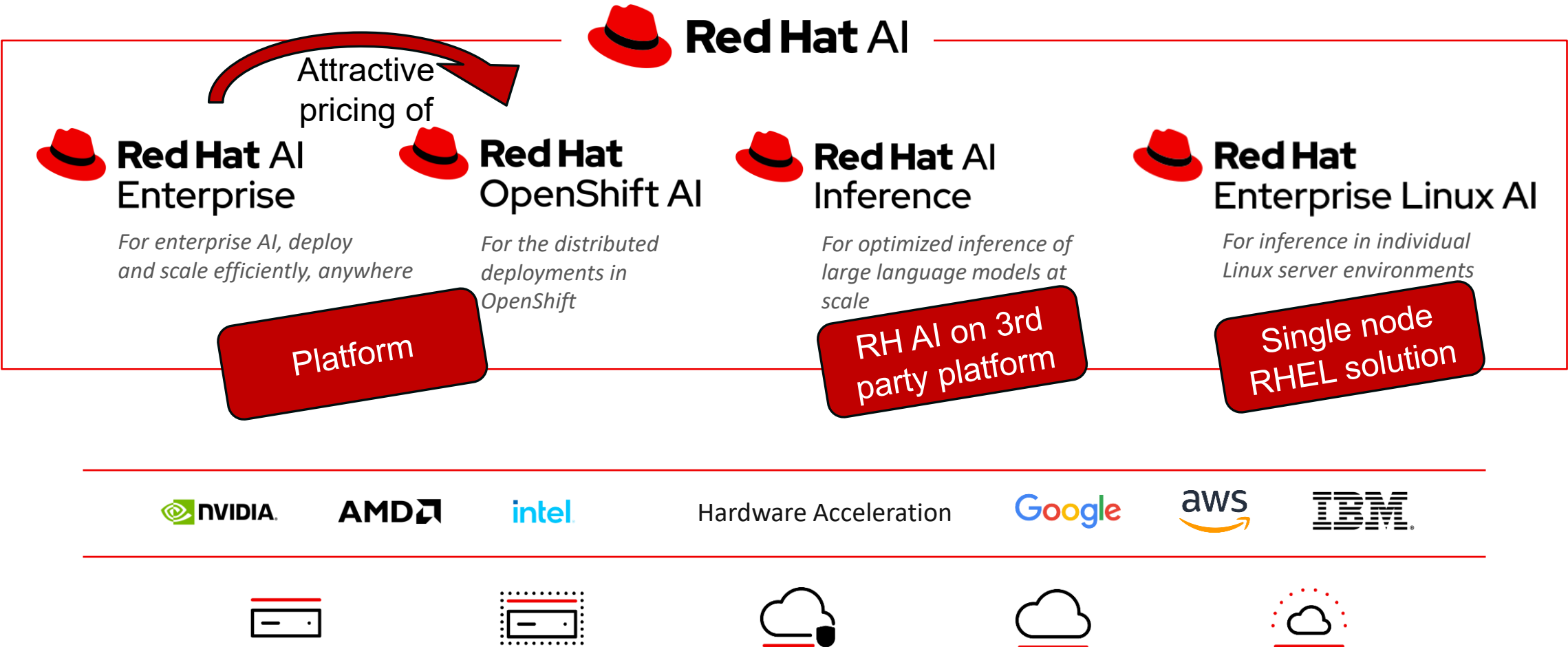
For inference in individual Linux server environments



Hardware Acceleration

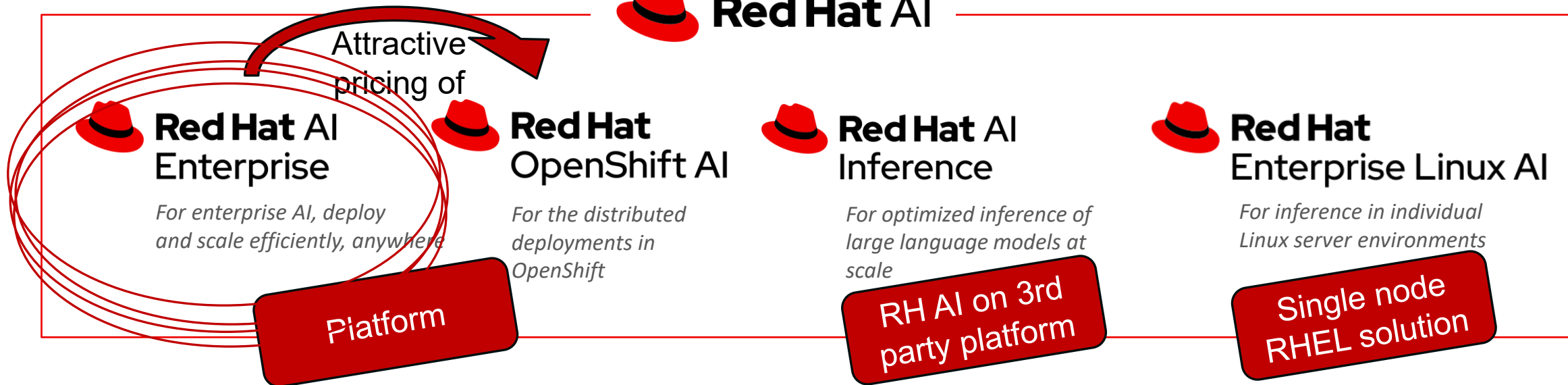


* NVIDIA GPUs fully supported in Red Hat AI. AMD Instruct & Intel Gaudi in Preview, AWS Inferentia/Neuron, Google TPU, IBM AIU are on our roadmap

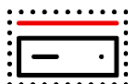
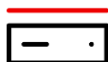


* NVIDIA GPUs fully supported in Red Hat AI. AMD Instruct & Intel Gaudi in Preview, AWS Inferentia/Neuron, Google TPU, IBM AIU are on our roadmap

Red Hat AI



Hardware Acceleration



* NVIDIA GPUs fully supported in Red Hat AI. AMD Instinct & Intel Gaudi in Preview, AWS Inferentia/Neuron, Google TPU, IBM AIU are on our roadmap

OpenShift – consistent & flexible application platform

Traditional apps



Cloud-native apps



AI/ML, Functions



Communities of Innovation | Ecosystems of Solutions



Secure & Automated Infrastructure and Operations



Physical



Virtual



Private
cloud



Public cloud



Edge

One Platform
for everything
anywhere

Includes:

Operator Framework
RHEL CoreOS
Logging
Monitoring
Serverless,
Cloud native
gitOps
Pipelines
Auth
Service Mesh

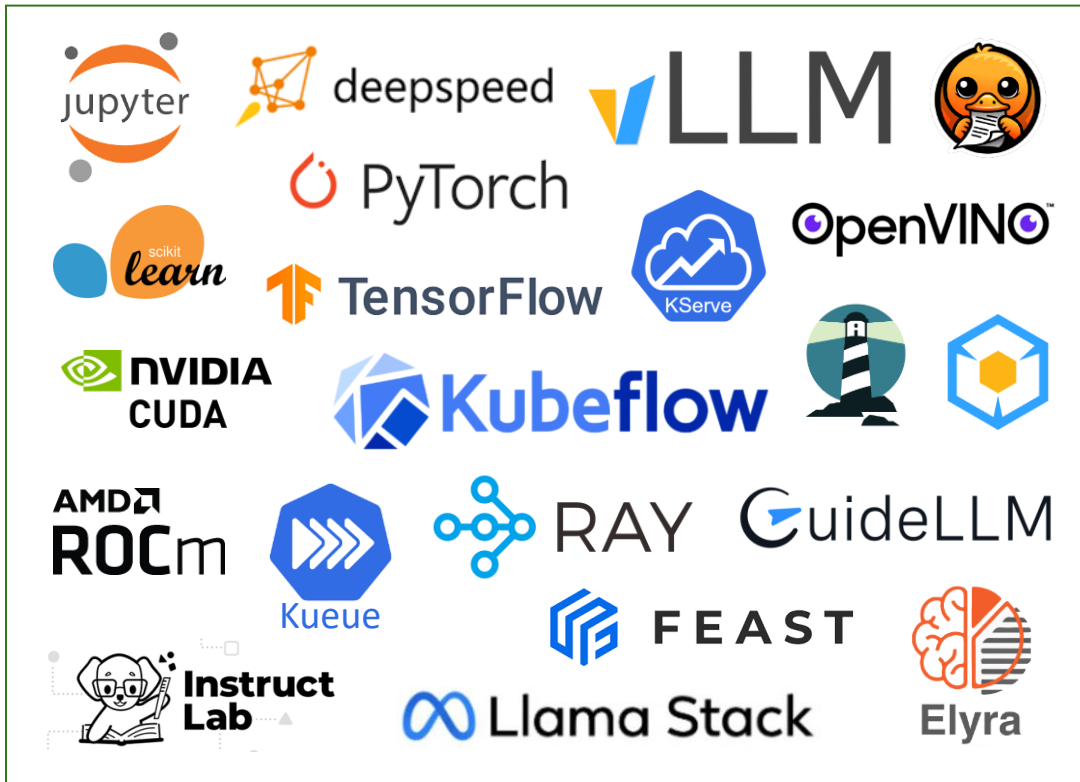
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Red Hat's AI platform is **100% open source**

We select the best and the most suitable Open Source AI tools for enterprise

Open Source AI upstream projects



Integrated,
Hardened,
Tested,
Verified,
Supported

Red Hat AI products



Flexibility from Red Hat AI Enterprise



Llama



Qwen
通義千問



DeepSeek
深度求索



Kimi
月之暗面



MiniMax
稀宇科技



Gemma



Mistral



GPT-OSS



Nemotron



Granite



MaaS

Models as a Service

Pre-Optimized Models

AI Gateway



Red Hat AI
Inference



GPUaaS

GPU-as-a-Service

DRA



GPU



Instinct



TPU



Neuron



Gaudi



Spyre



沐曦卡 (中國)



NPU (Korea)



Physical



Virtual



Private Cloud



Public Cloud



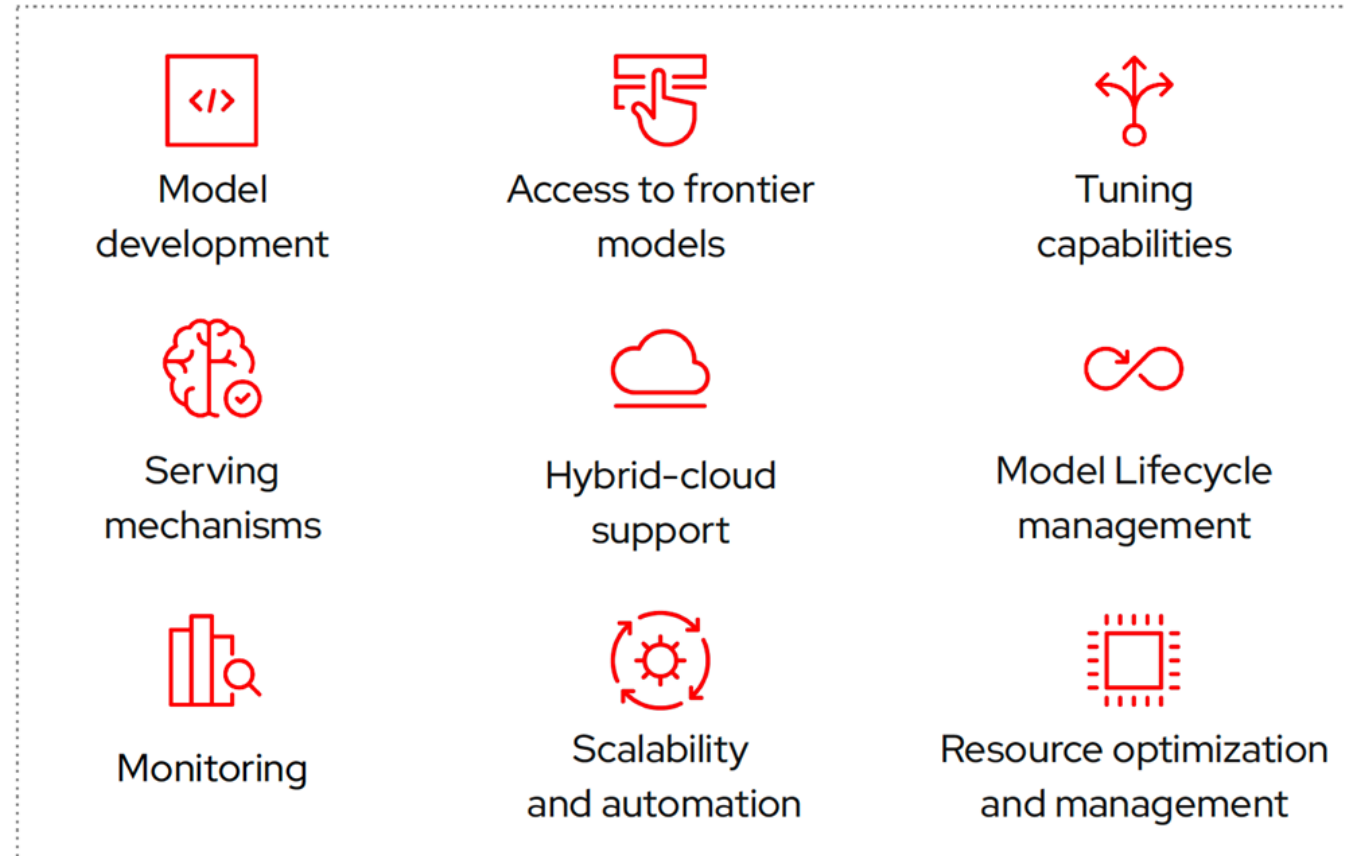
Edge

Single platform to run any model, on any accelerator, on any cloud

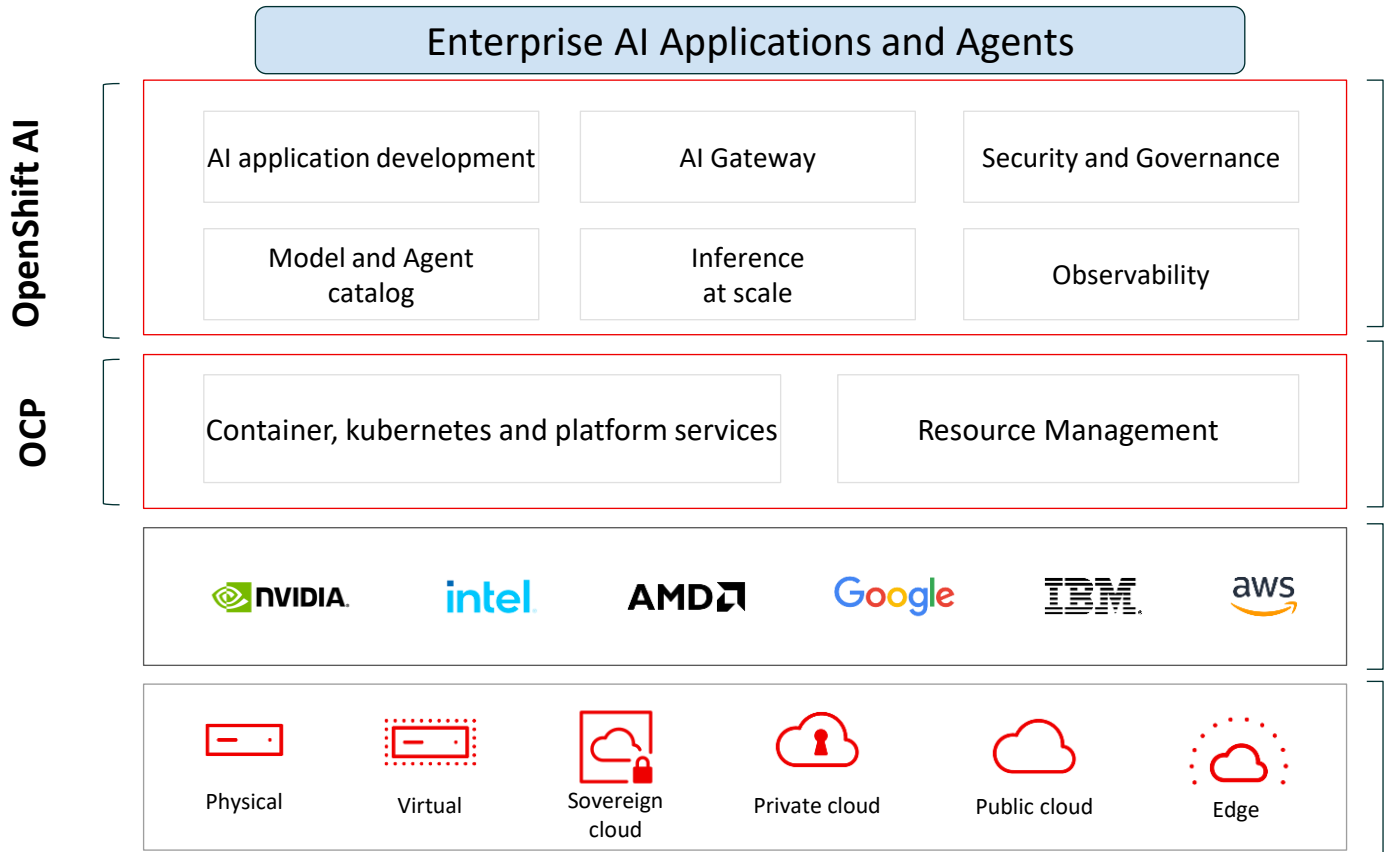


Components of an AI platform

Successful AI implementations require more than models and GPUs



Red Hat AI Enterprise



AI services layer: Build, tune, and manage all AI models and agent workflows.

Platform services layer: Core foundation for consistency, security, and scalable operations.

Any hardware accelerator : support for various hardware accelerators for optimized performance and cost.

Deploy anywhere: choose where to train, tune, deploy and run AI models, agents and applications.

An integrated AI platform for enterprise deployments



Red Hat AI Factory with NVIDIA

A unified, co-engineered foundation for building, deploying, and scaling production-ready AI.



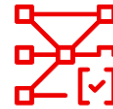
Unified AI solution

A joint offering that combines **Red Hat AI enterprise** and **NVIDIA AI enterprise** to deliver an end-to-end solution optimized for NVIDIA hardware environments



Streamlined operations

Integrates the engineering and support expertise of both Red Hat and NVIDIA to **deliver a trusted**, enterprise-grade platform.



Production-Ready Foundation

The solution is designed to **accelerate** the path from **experimentation** to **production** through a **unified platform** for building, deploying, and scaling AI-ready applications



Collaborative expertise

Empowers IT operations teams to **streamline the management** of both traditional infrastructure and the evolving demands of the AI stack

How to get Red Hat AI Factory with NVIDIA

A validated system delivered through a value chain of partners



OEMs

Original Equipment Manufacturers



Cisco Secure AI Factory & AI Pod
Dell AI Factory
Lenovo AI Factory
Fujitsu, Hitachi, NEC, NTT Data



VARs

Value-Added Resellers



Distribution



What's included: Red Hat AI Enterprise & NVIDIA AI Enterprise (Full Stack Software)

Availability: Blackwell/Hopper NOW | Rubin H2 2026 (Day 0 support)

*NOTE: Any VAR can purchase as long as SKU is available via distributor

03

OpenShift Virtualization

Speaker

Dorian Redak

Technical Practices Manager



Dorian.Redak@tdsynnex.com



Red Hat is a Leader in the 2026 Gartner® Magic Quadrant™: Cloud-Native Application Platforms for the third year in a row

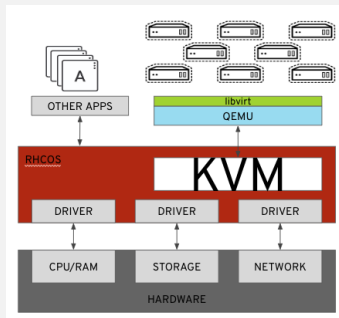


Source: Gartner, "Magic Quadrant for Cloud-Native Application Platforms,"
Saha Mukul, Coqueiro Alex, Prasanna Lakshmi Narasimha, Watson Richard, 3 Aug. 2026.

modern management
declarative / cloud native



reliable technique
mature, fast, well accepted



KubeVirt is key

200+ contributing companies

60 releases

Top 10 Cloud Native Computing Foundation active projects

invented 2016; a CNCF project since 2019

50% increase in contributing companies in CY23

KVM is the foundation

- the Linux kernel hypervisor
- core component of the Red Hat Enterprise Linux
- **invented 2007, RH owned project 2008**
 - Red Hat Virtualization
 - Red Hat OpenStack Platform
 - RHEL KVM

Migration Assessment

Migration Advisor

Online Tool

<https://console.redhat.com>

-> Red Hat Openshift

-> Migration Advisor

Quick Assessment

File Upload

ova Template

VMA

Virtual Machine Assessment

Partner

TD Synnex

Red Hat

Vorraussetzungen

Red Hat Partner Account

RV Tools

VCenter Zugang

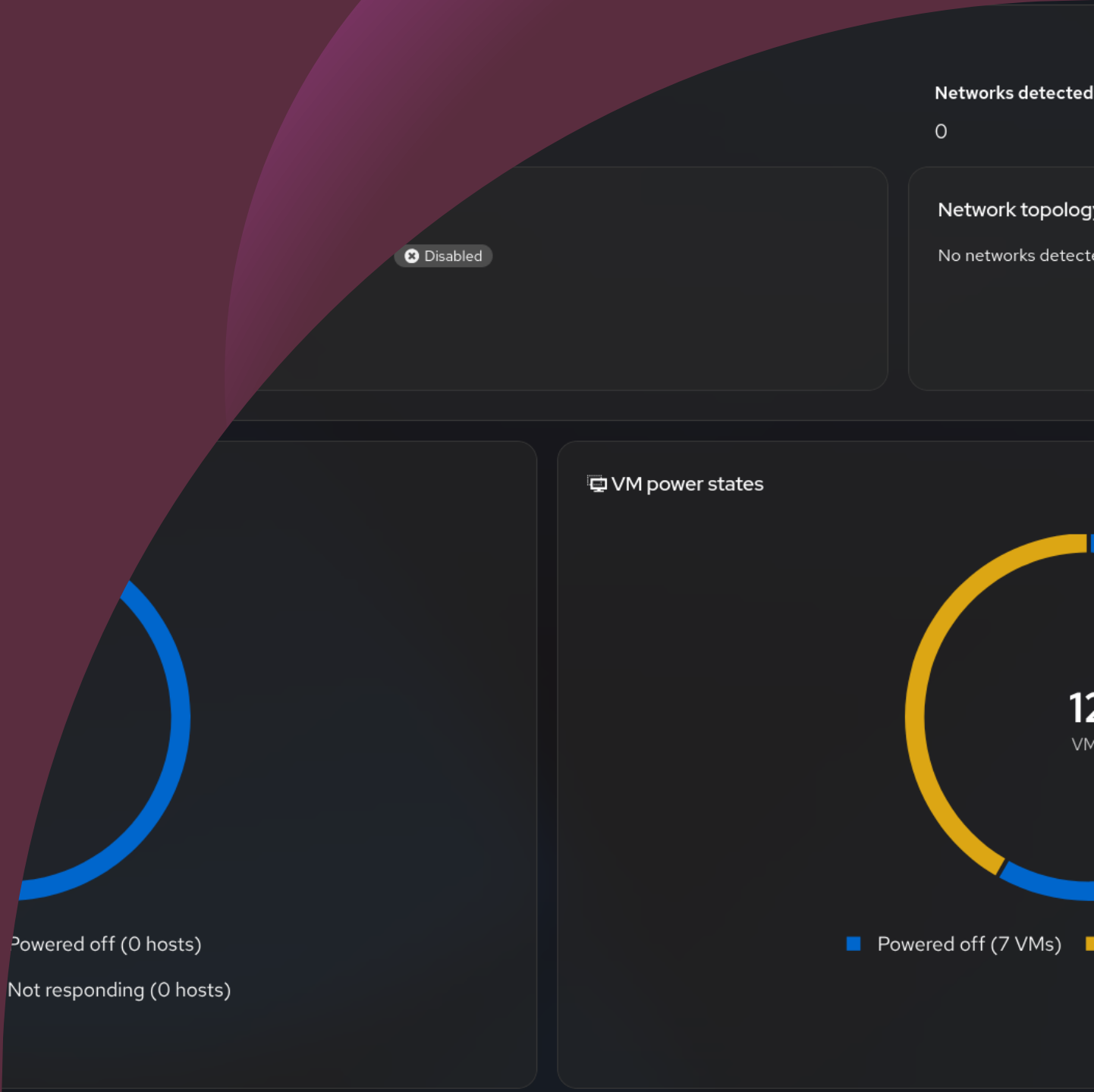
Demo

- Migration Advisor

Quick Assessment

Grobe Abschätzung

- Migrationsaufwands
- Migrationsrisikos
- Sizing und Kosten



Overview Virtual Machine Assessment

- Detaillierte(s)
 - Analyse der Umgebung
 - Erstellung des Projektplans
 - Risikoanalyse
 - Sizing
 - Kosten

on Assessment

Organizations are experiencing shifts in their virtualization landscape and are being confronted with new challenges, solutions and rising expenses. Red Hat® Virtualization Migration Assessment is an evidence-driven framework that helps you understand, plan, and create a strategic path forward for your virtual machine (VM) infrastructure migrations. This engagement, offered by Red Hat Consulting, provides you with a clear roadmap and timeline for migrating your VMs off your traditional virtualization provider.

Experienced Red Hat architects run a short series of 2-hour, on-site workshops with your networking, platform, and security teams to assess the current environment and gather requirements and goals for your desired future state. They will work to understand and analyze both the infrastructure and workload complexities to build a migration plan of high confidence.

Red Hat Consulting: Virtualization Migration Assessment

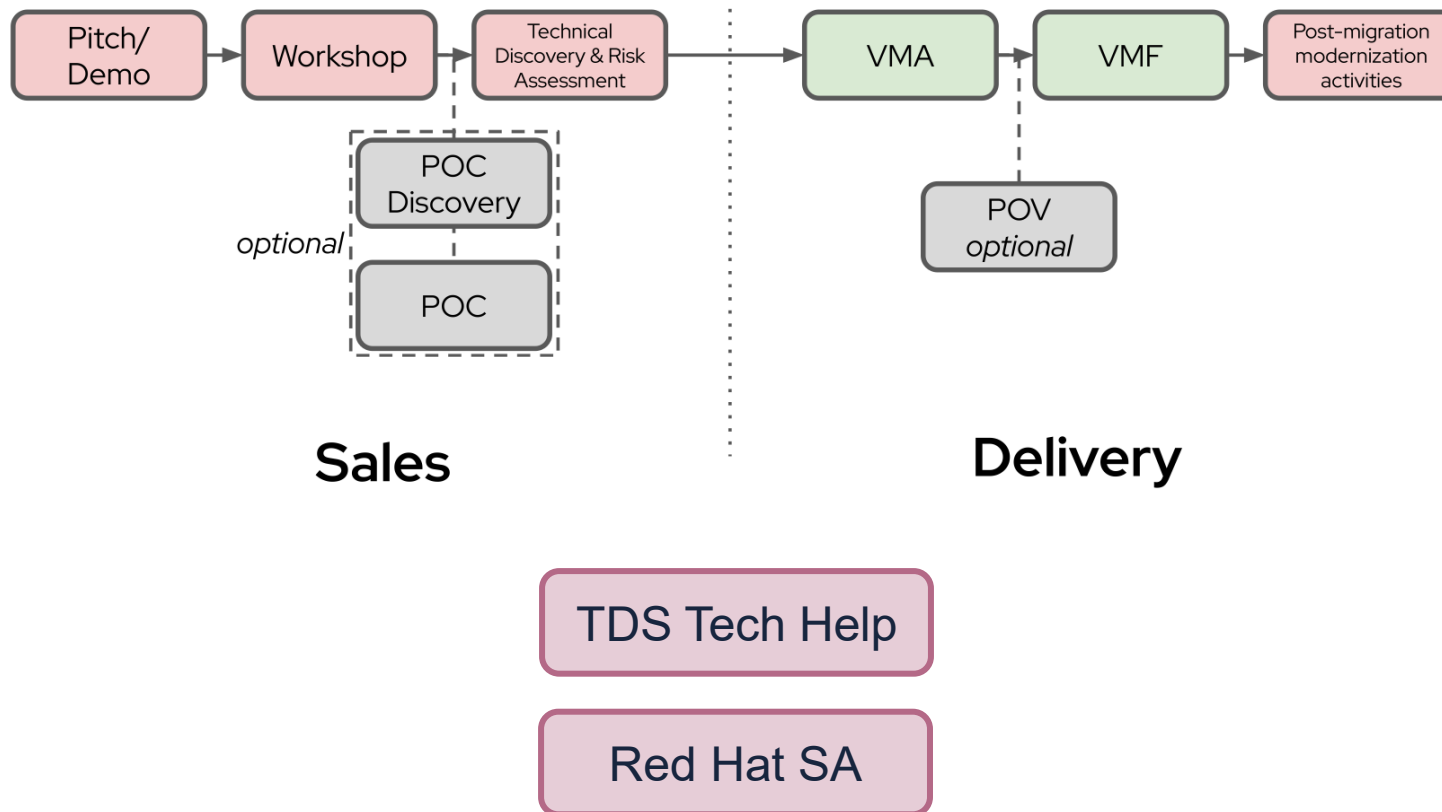
Our experts will assess your business drivers, current state, and the path to future state in a series of interactive discovery and design workshops. This assessment forms the basis for a high-level solution design, a roadmap to production, and a customized migration journey and proposal. Together, we will build a path that may include the following activities.

Activity	Outcomes
Perform discovery workshops with relevant stakeholders to understand where you are going	• Analyze existing investments and infrastructure and gather requirements for your future target platform • Identify virtualization use case(s) in preparation for the pilot • Understand Day 2 operations including, but not limited to, automation and configuration management, disaster recovery, and monitoring • Identify current ways of working, skill sets, and organizational processes • Understand security and compliance requirements
Identify VM workloads	Define integrations such as storage, networking, and clustering requirements
Co-create	Red Hat will provide a high-level solution design and migration plan to migrate your VMs efficiently and safely
Propose a high-level solution design to achieve your end goal	Customize the next step in virtualization migration, including targeting your virtualization platform and Red Hat OpenShift® migration factory approach and tooling

Limited-time offers

- Your initial investment from the Virtualization Migration Assessment gets credited back to your subscriptions if you choose to move forward with Red Hat.
- Managing Virtual Machines with Red Hat OpenShift Virtualization with Exam (DO317) - **Get 70% off** the bundle through December 31, 2024.

Optimal Virt Sales and Delivery Path



Sales

Step 1 – Pitch / Demo

- Find Partners/Customers

Step2 – Workshop (3-4 hrs)

- Openshift
- Openshift Virtualization
- Demo OCP & Virt
- Explanation of Toolset

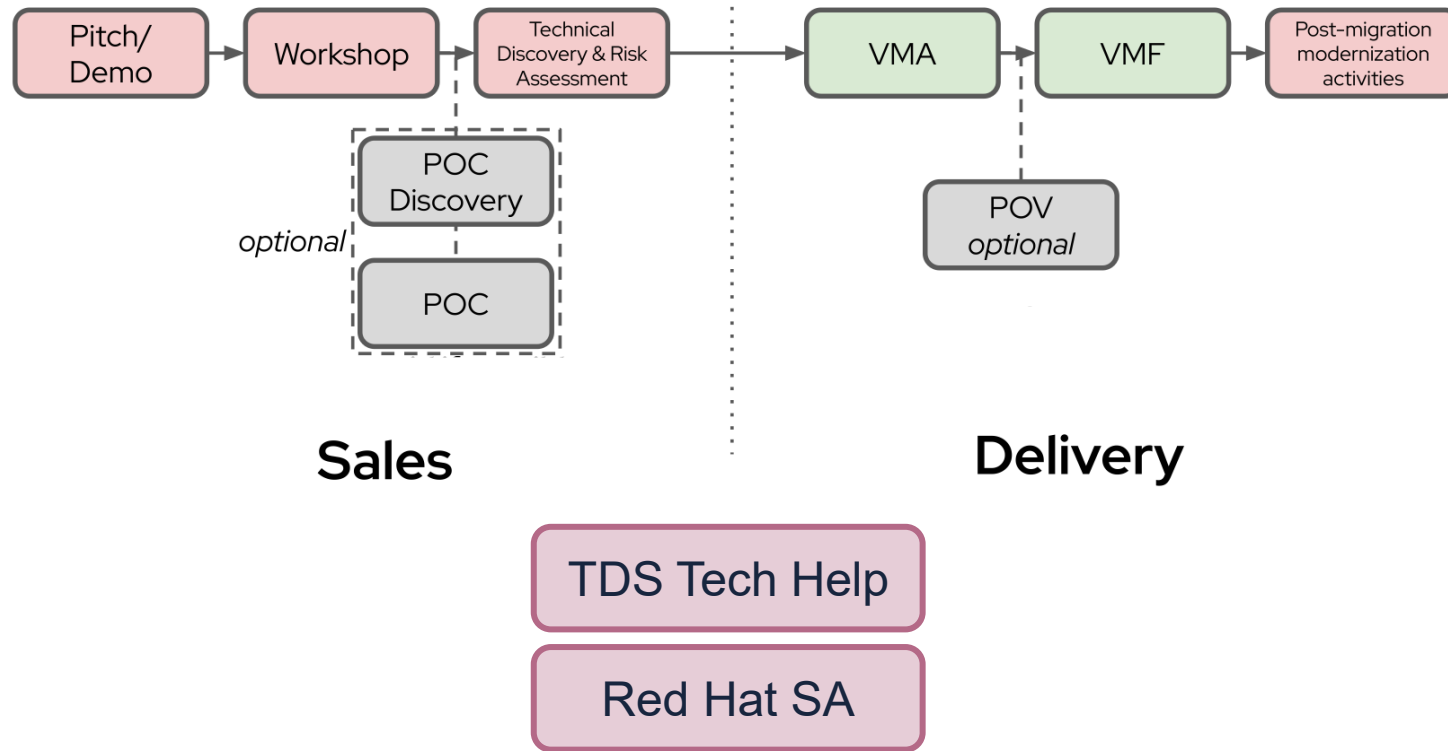
Step 3- Discovery (3-4 hrs)

- Install Toolset at Customer Site
- Gather Data
- Analyze Data
- Documentation

Outcome

- Virtual Machine Assessment
- Risk Assessment
- Sizing / Pricing

Optimal Virt Sales and Delivery Path



Delivery

Step 1 – VM Assessment

- Present Results of Assessment
- Discussion

Step2 – VM Factory

- Detailed Migration Planning
- Include All Stakeholders
- Migration Tool Kit
- (White Label Service)

In Parallel

- Trainings

Step 3- Post Migration

- Debriefing
- Development Paths
- Openshift Add-Ons
- Path To DevOps

Q&A

“
Questions &
Answers”

Thank You!



Making IT Personal™