SAOUG
CONFERENCE 2026

Infrastructure Modernization with Oracle Linux and Virtualization

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HELLO AFRICA



UBUNTU
moving forward
TOGETHER.

Agenda

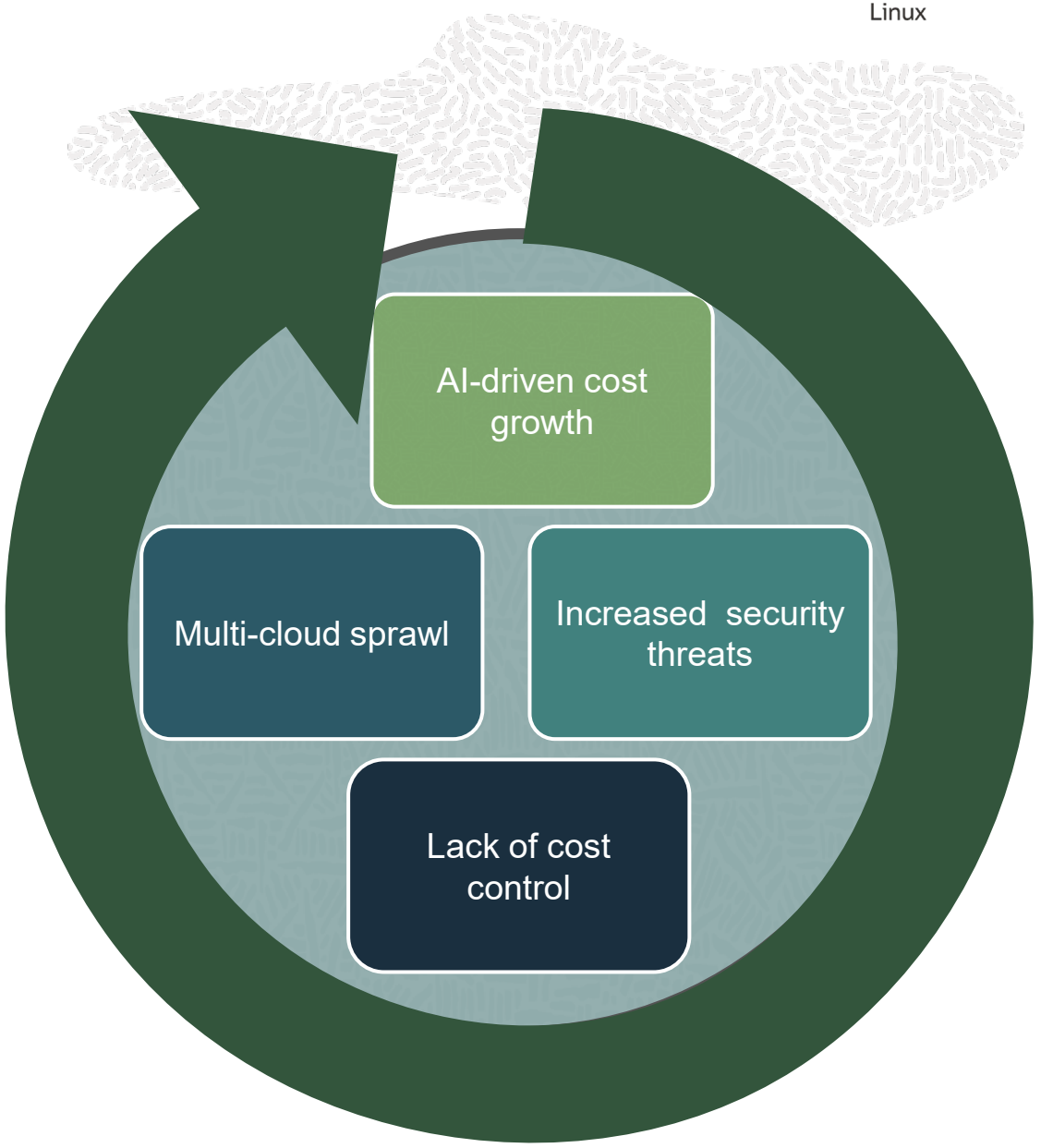
- Today’s Landscape & Challenges
- Oracle Linux Fundamentals
- Key Capabilities

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Today's Landscape & Challenges

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The complexities our customers are managing



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What customers need help with

Control & Visibility

- Understand cost across cloud, Licensing, SaaS, and AI
- Reduce waste (~30% of spend*)

Simplicity Across Environments

- Hybrid is the norm (73%*)
- Multiple clouds per customer

Better Decisions

- Narrative has shifted from “move to cloud” to “where should this run?”

*Flexera 2026 State of the Cloud Report

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Market trends: More environments = more demand = more complexity

Three converging trends are changing how customers evaluate infrastructure

HYBRID IS THE NORM

73%

of surveyed organizations

operate hybrid cloud environments

More environments to manage

CLOUD NATIVE IS MAINSTREAM

98%

of surveyed users

have adopted cloud native techniques

More operational demands

AI IS EXPANDING

45%

of surveyed organizations

use generative AI public cloud services extensively

More pressure on cost and capacity

Customer Challenge:

Control costs and simplify operations across an increasingly fragmented estate.

Sources: Flexera 2026 State of the Cloud Report; CNCF Annual Cloud Native Survey 2026.

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Oracle Linux is There to Help

With Oracle Linux we have the unique opportunity to help customers:

- Reduce cloud cost and eliminate waste
- Simplify hybrid environments
- Strengthen security & governance
- Optimize workload placement
- Control unpredictable AI infrastructure costs

Customers are rethinking decisions they made years ago and are open to alternatives that simplify their environment, restore control, and deliver greater business value.

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Oracle Linux: The Fundamentals

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Why the fundamentals matter

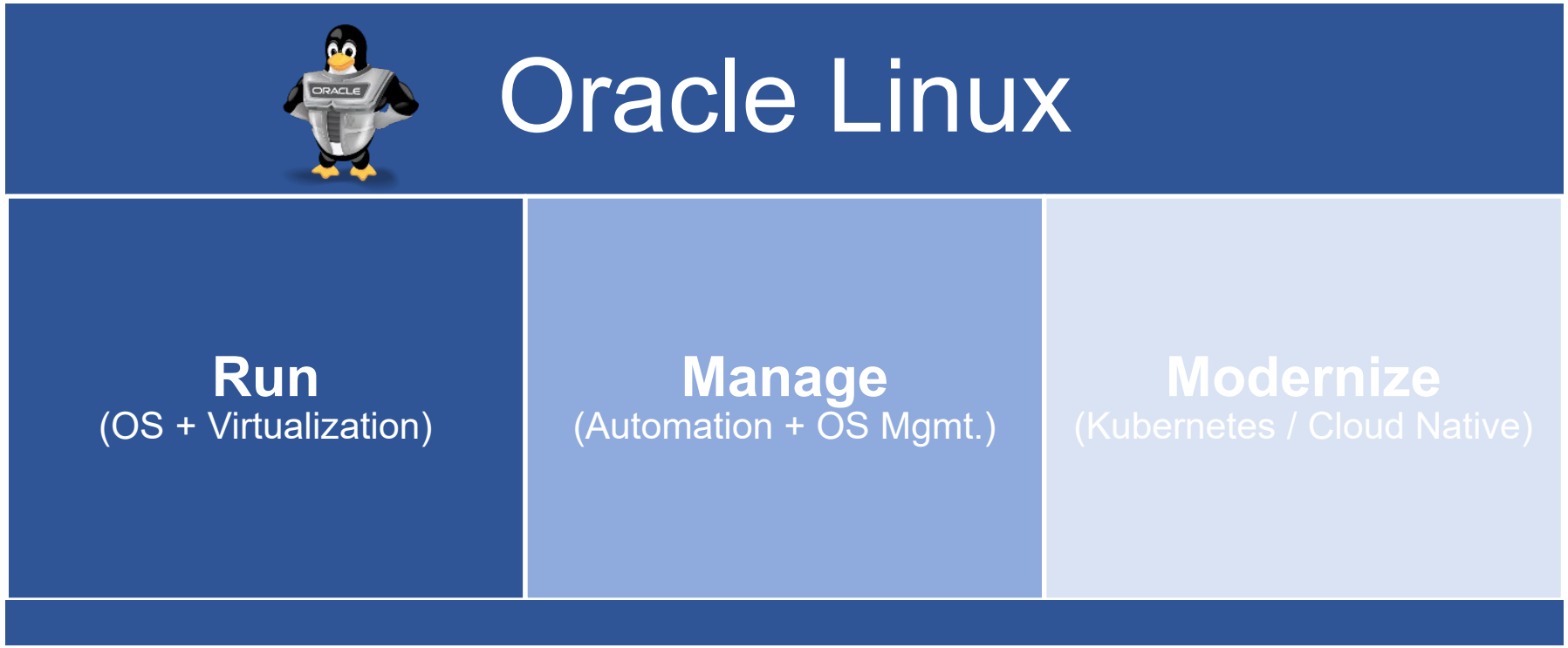
Oracle Linux is a core infrastructure

Customers see Linux as mission-critical

Trust + credibility are essential for customers

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What is Oracle Linux



- Enterprise-grade Linux operating system
- Free to download and use
- Optional paid support model
- Designed for modern + traditional workloads

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Built for Enterprise Workloads

Performance at Scale

- Unbreakable Enterprise Kernel (UEK) optimized for demanding workloads
- Co-engineered with Oracle Database and applications

Security & Zero-Downtime Operations

- Ksplice zero-downtime patching (no reboots required)
- Rapid access to security updates and fixes

Enterprise-Grade Support

- 24x7 global support from Oracle Linux experts
- Integrated support across OS, virtualization, and cloud-native stack

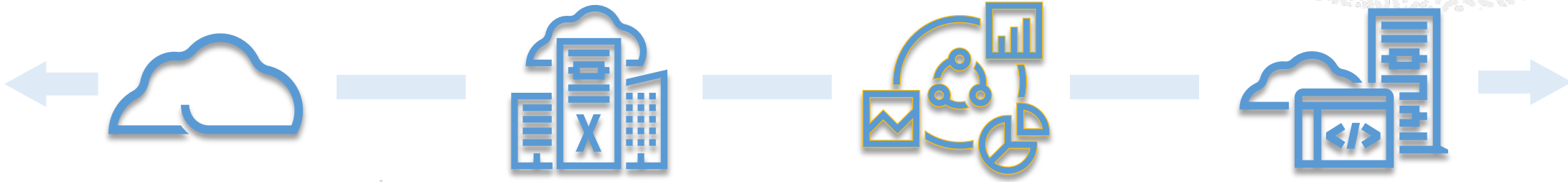
Proven at Massive Scale

- Powers Oracle Cloud Infrastructure (OCI)
- Runs Oracle Engineered systems

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Oracle Linux is strategic across all deployment models

Accelerating customers' digital transformation



Oracle Cloud Infrastructure runs on Oracle Linux

- SaaS applications
- Infrastructure
- 100,000s of servers
- Multicloud environments

Oracle's engineered systems run on Oracle Linux

- Oracle Exadata
- Oracle Database Appliance
- Oracle Compute Cloud@Customer
- Oracle Private Cloud Appliance

Oracle's internal systems run on Oracle Linux

- ERP
- CX
- HCM

We develop our products on Oracle Linux

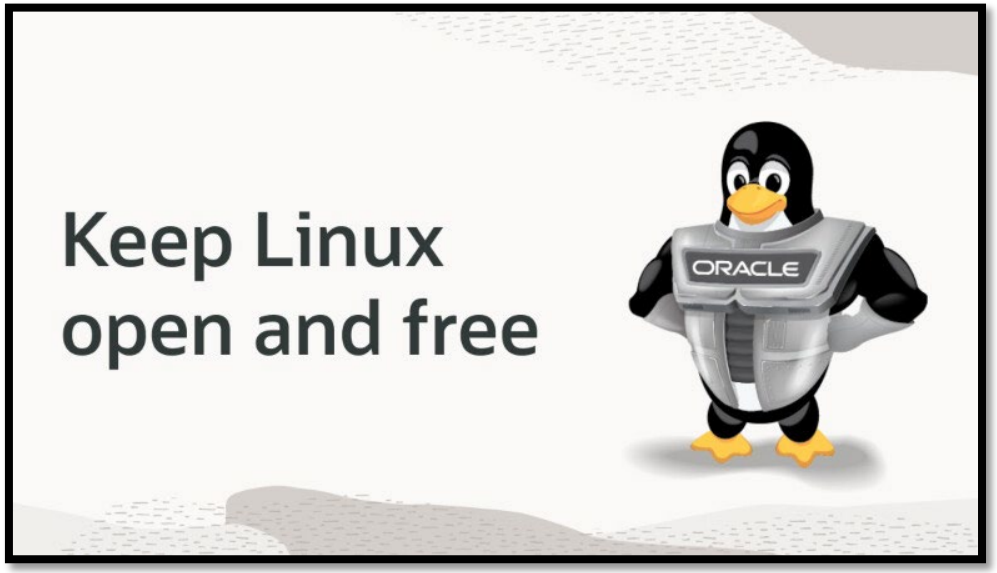
- Database
- Middleware
- Applications
- Leveraged by 10,000s of developers

Oracle Linux is the runtime standard at Oracle
We run the same Linux as our customers on-premises and in the cloud

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What is Open-Source

- **No Vendor Lock-in -** Code is publicly available, so customers aren't at the mercy of one company's choices
- **Community-Driven Development** - Programmers worldwide work together to improve the software, not just one company
- **No Core Licensing Fees** - Customers pay for support and services, not expensive software licenses
- **Enterprise-Proven Open Source** - Oracle trusts this technology to run our own multi-billion-dollar cloud business



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Oracle is committed to Linux and open source

Platinum member of Linux Foundation



Platinum member of Cloud Native Computing Foundation



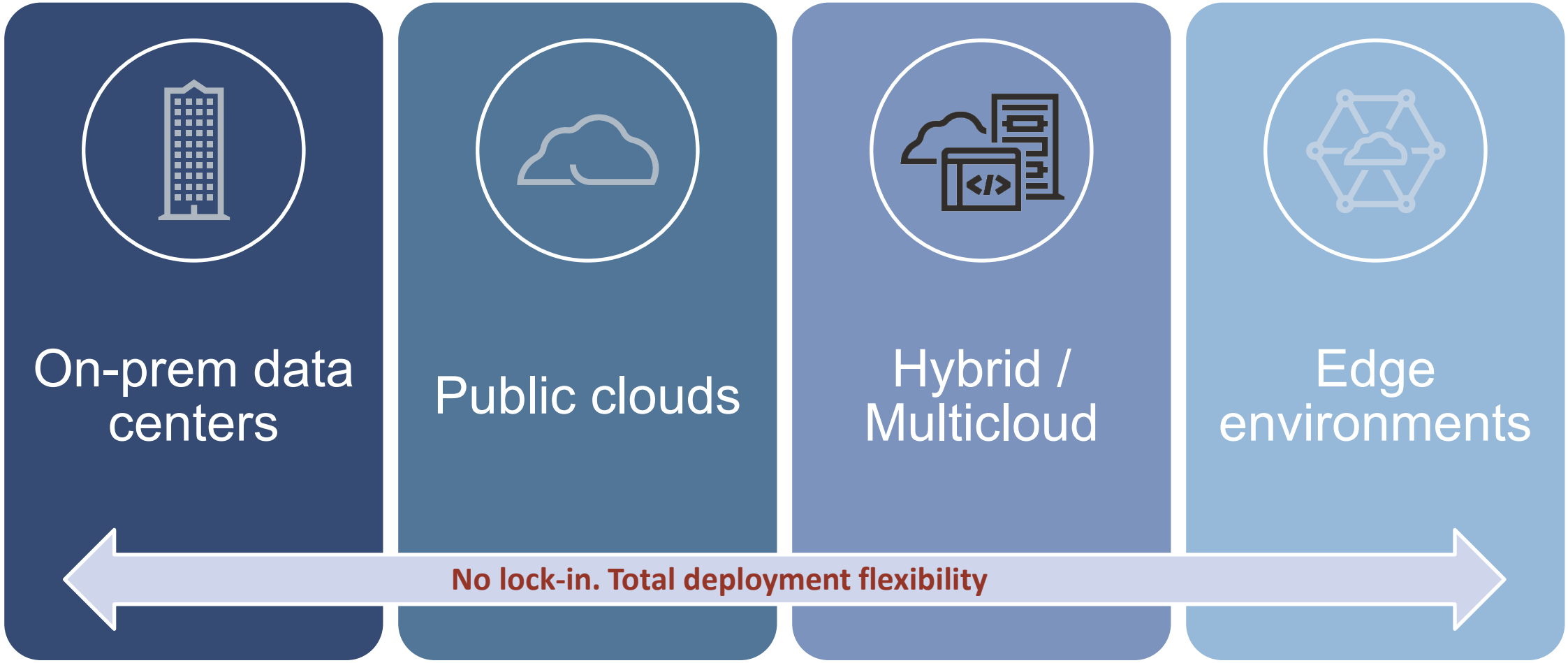
Founding member of Open Enterprise Linux Association (OpenELA)



- Providing Linux support since 2006
- Tens of thousands of large enterprises depend on Oracle Linux
- One of the top contributors to Linux kernel community

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One OS, that can run anywhere



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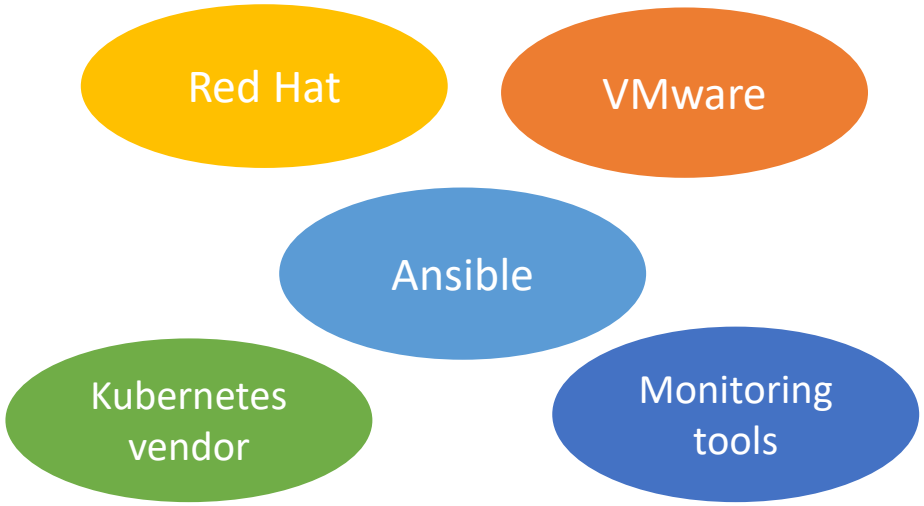
Key Capabilities

- Operating System
  - Virtualization
  - Automation
  - Management
- Cloud Native Tools

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Customers Don't Want More Tools

Multiple vendors & tools

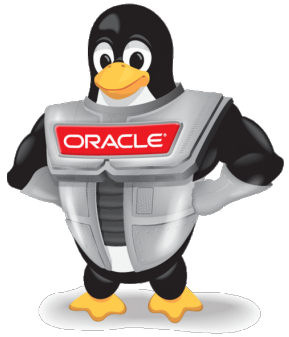


Challenges:

- Tool sprawl
- Rising licensing costs
- Operational complexity

Simplify Infrastructure

Simplified Oracle Linux platform



ORACLE Linux

Oracle's Approach:

- Integrated platform
- One support model
- Lower operational overhead

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One Platform. Multiple Capabilities.

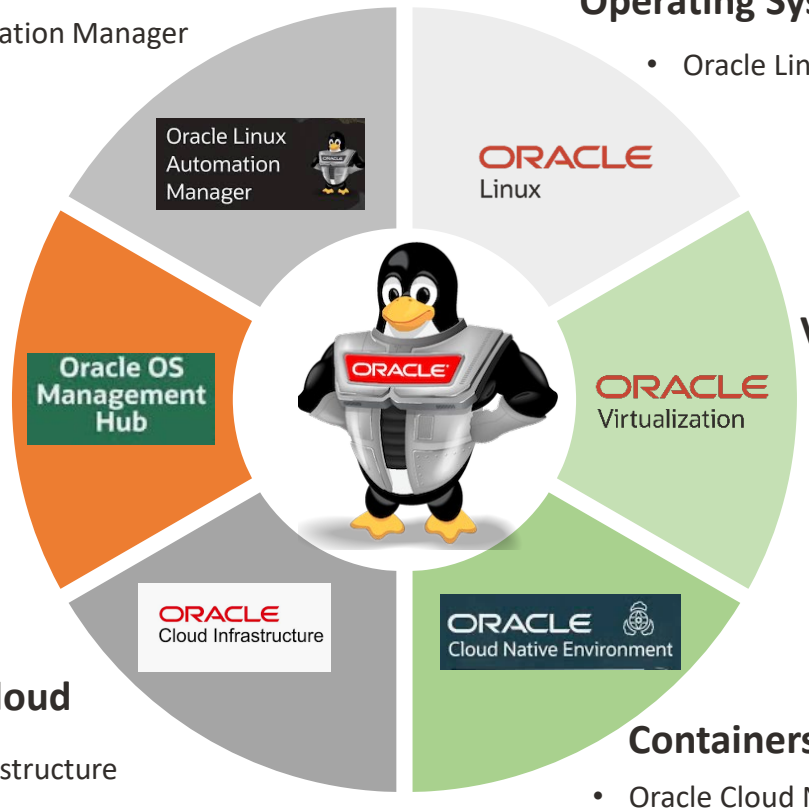
Customers can standardize on one platform instead of stitching together multiple vendors

Automation

- Oracle Linux Automation Manager

Operating System

- Oracle Linux



Management

- Oracle OS Management Hub

Virtualization

- Oracle Linux Virtualization Manager
- KVM

Cloud

- Oracle Cloud Infrastructure

Containers

- Oracle Cloud Native Environment

- **Enterprise-grade Linux platform**
- **Free to download and use**
- **Optional paid support model**
- **Designed for modern + traditional workloads**

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Two Kernels. One Platform. Zero Compromise.

Oracle Linux supports both optimized performance and full RHEL compatibility on a single platform

Optimized for Performance
Unbreakable Enterprise Kernel (UEK)

Best performance for Oracle workloads
Powers Oracle Cloud (OCI) & Oracle Engineered Systems
Latest innovation, no legacy constraints

OR

100% RHEL Compatibility
RHEL-Compatible Kernel (RHCK)

Runs existing RHEL applications unchanged
No migration risk
Familiar environment

Same OS. Same support. Same platform.

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Enterprise Security & Compliance Built In

Enterprise Security
- Built-in security capabilities for mission-critical workloads

Compliance Ready
- Supports government and regulated industry requirements

Continuous Certification
- Ongoing validation for new Oracle Linux releases

Trusted at Scale
- Runs Oracle Cloud Infrastructure and enterprise workloads

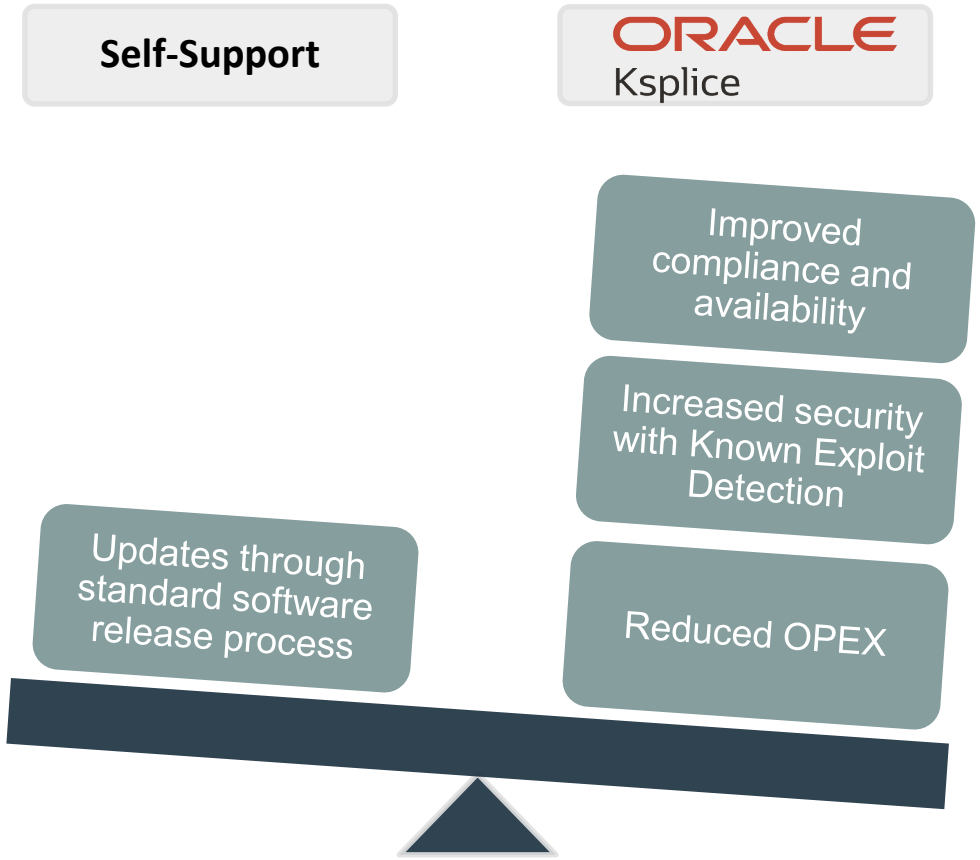
Oracle Linux helps customers meet security and compliance requirements with confidence

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Risk mitigation with zero-downtime patching

Eliminate tradeoffs between security and availability

- Zero-downtime patching
  - Linux kernels
  - KVM hypervisor
- High availability because of no downtime
  - Systems are updated without reboot
  - Applications continue running
  - VMs or container workloads are not disrupted
- Enhanced security with Known Exploit Detection
  - Improves security visibility
  - Supports compliance and audit requirements



Apply critical security updates without taking systems offline, reducing operational disruption

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Oracle Virtualization:
The same core server virtualization features you expect and need

	Oracle Virtualization	VMware vSphere
Live virtual machine snapshots	Yes Yes	Yes Yes
Live virtual machine migration	Yes Secure live migration Yes	Yes vMotion Yes
Live storage migration	Yes Yes	Yes Storage vMotion Yes
Virtual machine high availability VM automatically moved and restarted if host becomes inoperable	Yes Yes	Yes Yes
Active/Active disaster recovery	Yes Yes	Yes Yes
Active/Passive disaster recovery	Yes Yes	Yes Yes
Scheduling policies	Yes Yes	Yes Distributed resource scheduler Yes
Role-based access For granular, user-level controls	Yes Yes	Yes Yes

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Capabilities included with Oracle Virtualization

Oracle virtualization value not available with VMware

Application licensing savings with hard partitioning

CPU Pinning: binding vCPUs to physical CPU threads or cores

Hard partitioning: Oracle database and other products may be able to take advantage of per core licensing for the application

No downtime for security updates with Ksplice

Oracle Ksplice

Updates select, critical components of your Linux installation with all important security patches without needing to reboot.

A Ksplice update occurs in memory and takes effect immediately upon application, which is different than an on-disk change that requires a reboot



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Oracle Virtualization

A strategic alternative to expensive virtualization platforms

VMware Pain Points:

- Rising costs
- Licensing complexity
- Vendor lock-in



Oracle Virtualization:

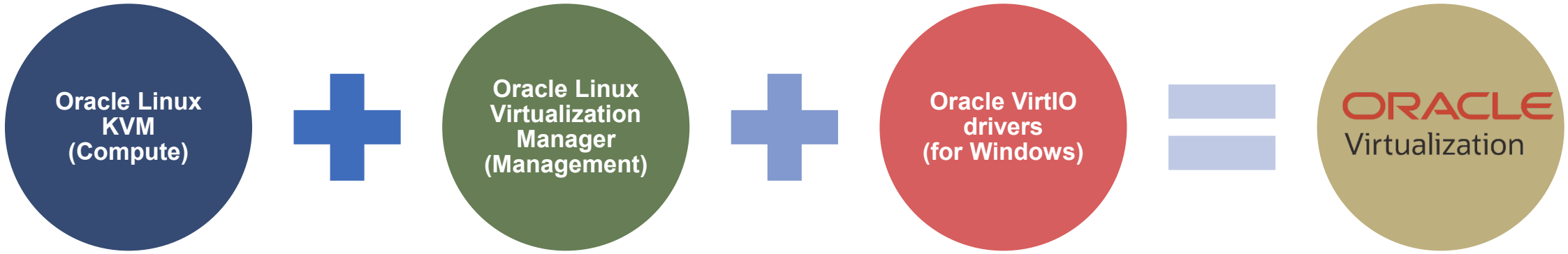
- Lower TCO
- Single sku w/integrated support
- Open technology platform



Customers can significantly reduce virtualization licensing costs while maintaining enterprise-grade capabilities.

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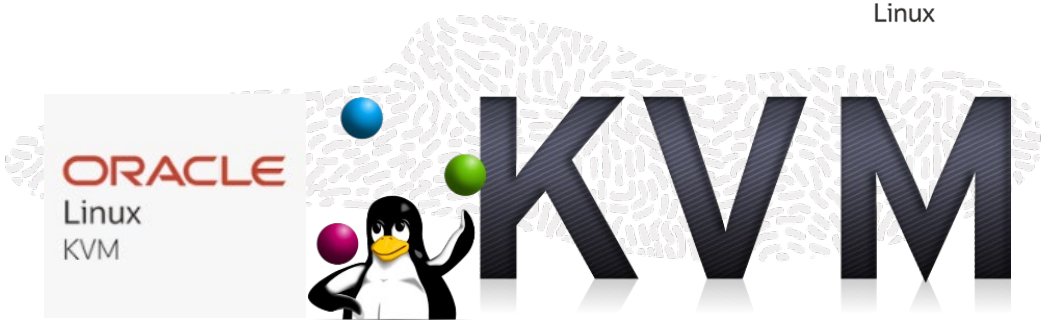
Oracle Virtualization: Overview



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Oracle Linux KVM

The Virtualization Engine



What is KVM?

- Kernel-based Virtual Machine built into Linux
- Integrated at the OS level (not layered on top)
- Hypervisor - Runs multiple VMs on one physical machine

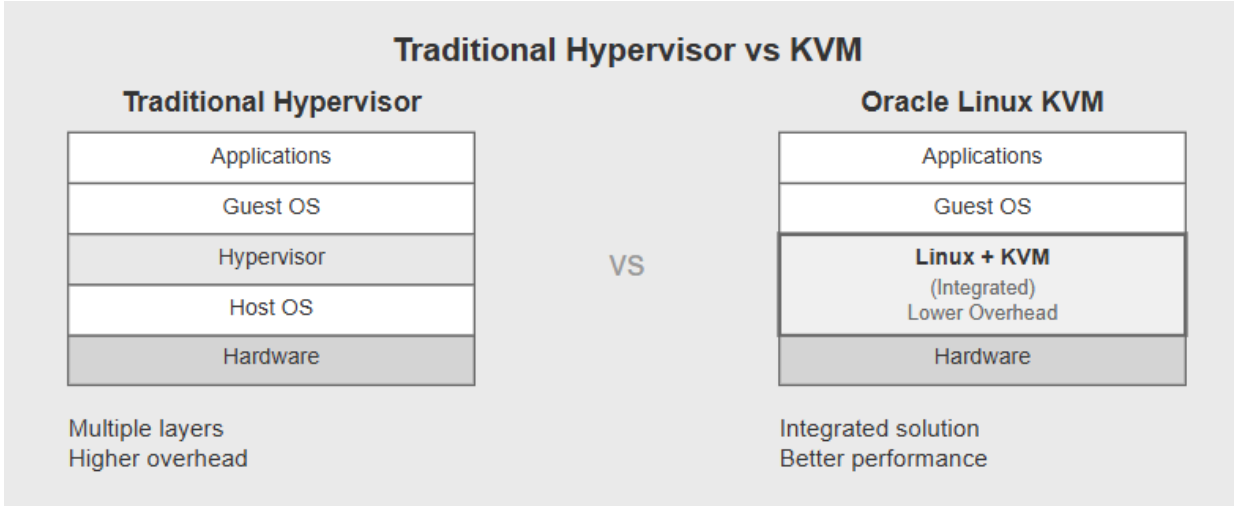
KVM is today a viable and reliable general purpose virtualization solution

Performance Advantages

- Lower overhead than traditional hypervisors
- Faster application performance
- Rapid VM startup times

Proven at Scale

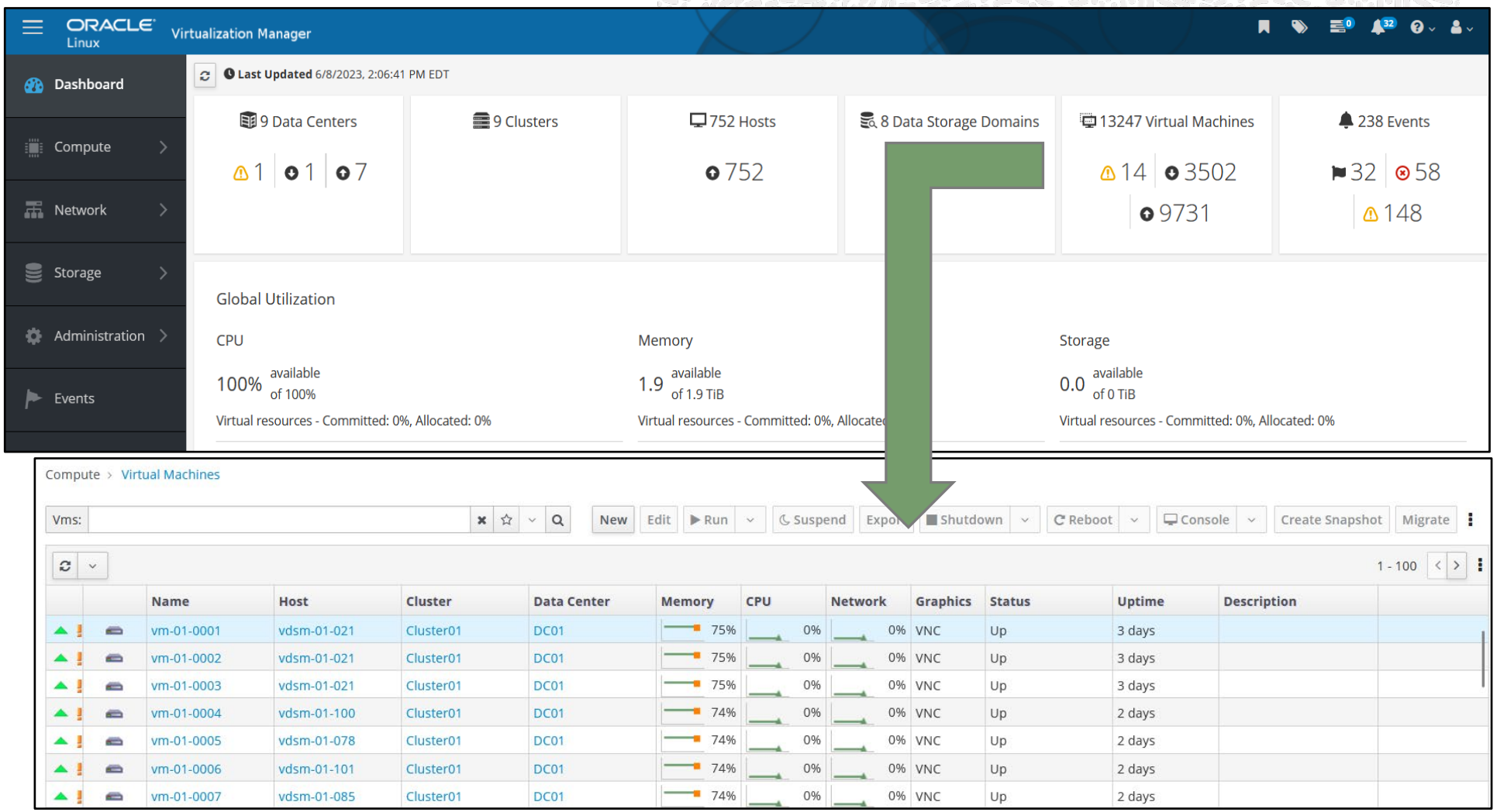
- Powers major public clouds (OCI, AWS, Google)
- Significant scalability advantages



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Oracle Linux Virtualization Manager (OLVM)

Single pane of glass
to manage your entire virtualization environment



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Oracle Linux Automation Manager (OLAM)

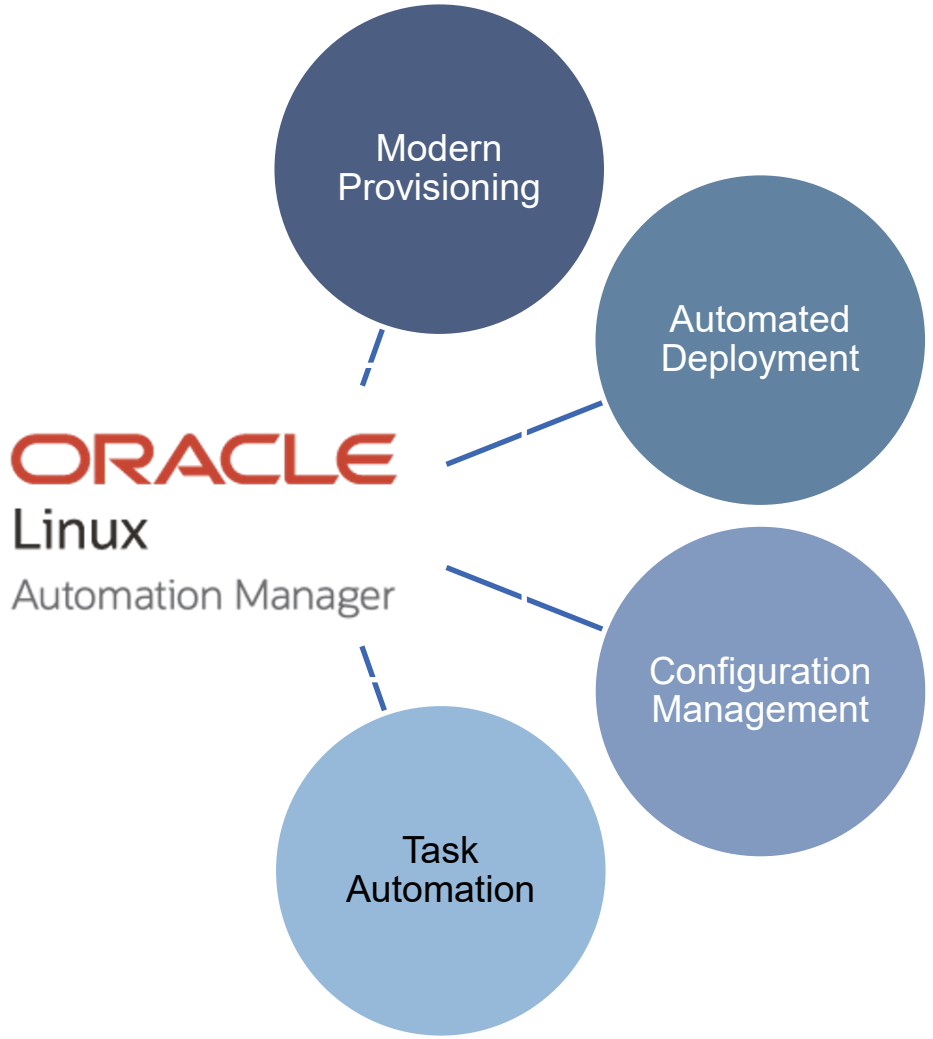
Automate Operations at Scale

Manual IT Operations

- Slow provisioning
- Repetitive tasks
- Configuration inconsistencies
- Operational overhead

With Oracle Linux Automation Manager

- Faster deployment
- Consistent configurations
- Reduced manual effort
- Improved operational efficiency



Reduce manual work. Increase speed and consistency.

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A managed service backed by Oracle expertise

Oracle OS Management Hub

Improve security and reliability

- Stay up to date with security and bug fixes
- Helps ensure security compliance

Save time, increase efficiency

- Automated manual processes; flexible job scheduling
- Automated operations reduce human errors

Reduce management complexity

- Centralized, simplified, integrated OS management
- Consistency of patch lifecycle environments

Lower costs

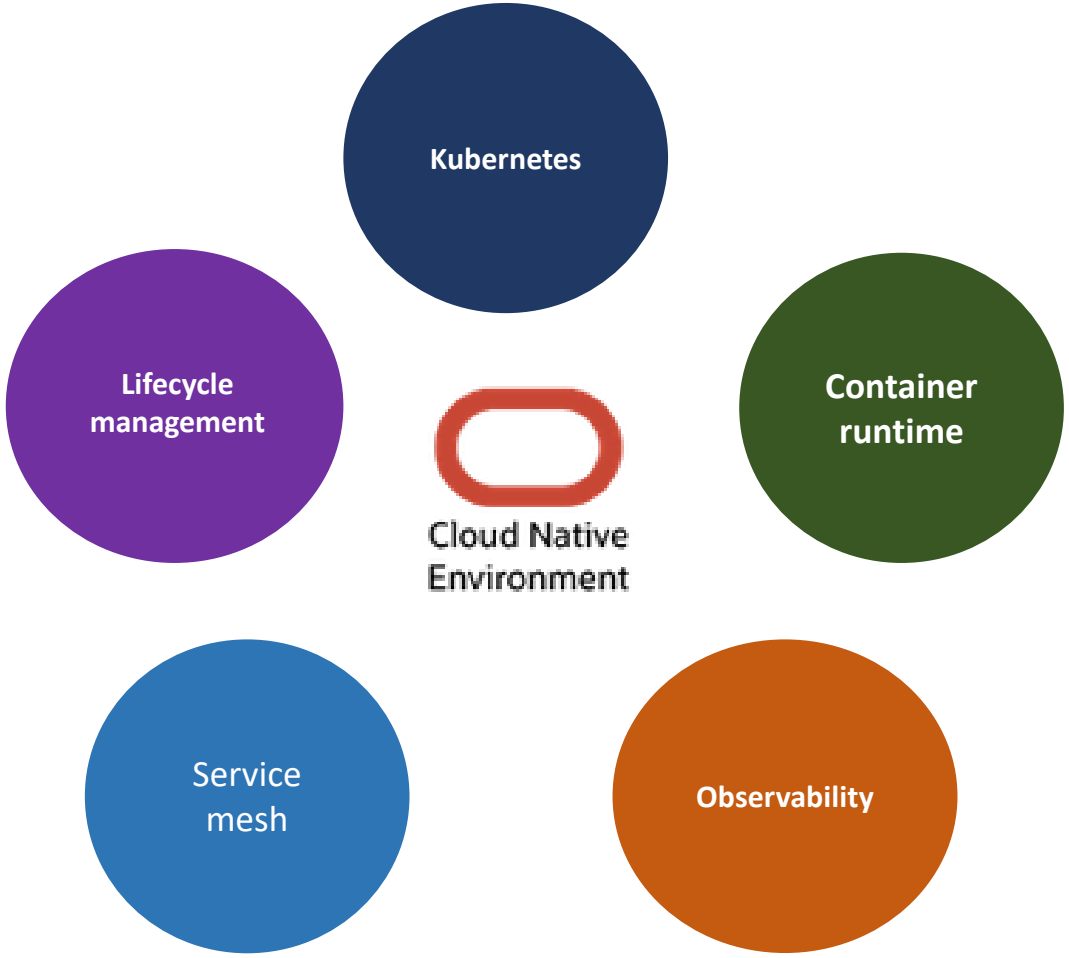
- Management as a service reduces administrative overhead, operational, and capital expenditures



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Simplify Kubernetes with Oracle Cloud Native Environment

Modernize applications without increasing operational complexity



Why Customers Care

- Faster application modernization
- Simplified deployment and operations
- Integrated platform approach
- Enterprise-grade support

OCNE Replaces:

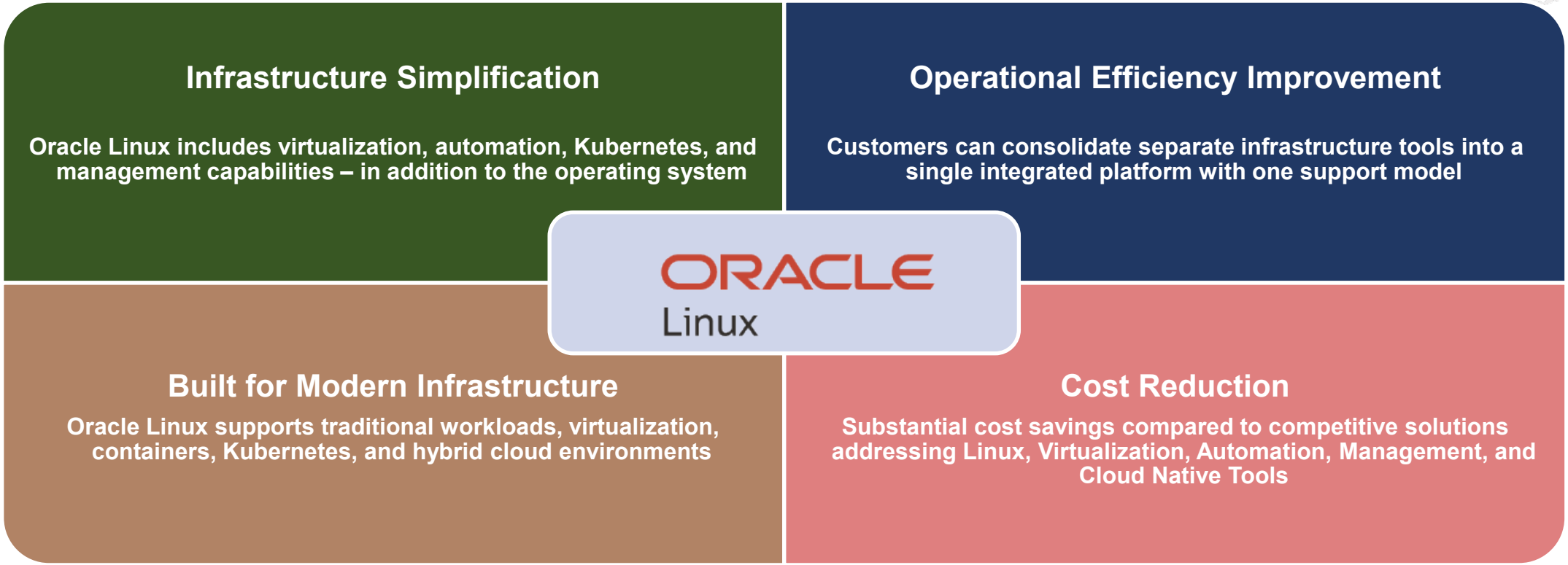
- Fragmented Kubernetes tooling
- Multiple third-party integrations
- Standalone container platforms

With OCNE customers can accelerate Kubernetes adoption without managing a fragmented ecosystem of tools and vendors.

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Key Takeaways

Oracle Linux delivers more than an operating system



Oracle Linux simplifies infrastructure while enabling modernization, cost reduction, and operational efficiency

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Q&A

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