



Webinar

"Oracle Linux and Oracle Virtualization Infrastructure Management with orcharhino"



ORACLE
Virtualization

+

orcharhino
Automate your infrastructure • Free your business

Housekeeping



This session will be recorded. You'll receive the recording after the webinar.



All participants are muted.



If you have questions, please use the Q&A or chat — we'll answer them during the Q&A part at the end.



Feel free to submit questions at any time throughout the presentation.



Slides will be shared after the webinar.

ATIX – The Linux & Open Source Company

Leading Linux systems integrator in the German-speaking region — with over 30 years of experience.

Experts in Open Source and IT infrastructure automation, delivering tailor made solutions

Individually, we offer the following core areas:

- orcharhino
- HANGAR
- IT-Consulting
- Training





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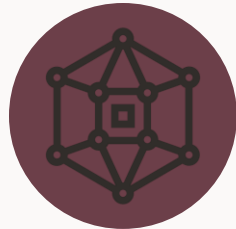
john.priest@oracle.com

Oracle Linux



Free download

Including updates. No license or subscription fees



RHEL compatible and enhanced

Zero compatibility bugs logged since 2006



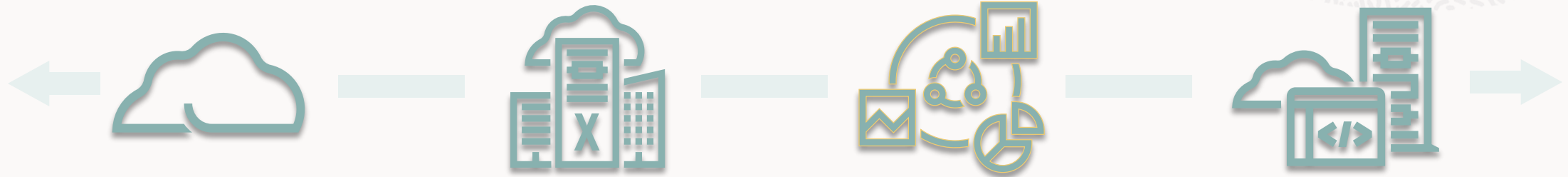
Designed for all workloads

Oracle and third-party apps, DBs, Clouds, x86 & Arm



Oracle Linux is strategic across all deployment models

Accelerating customers' digital transformation



Oracle Cloud Infrastructure runs **on Oracle Linux**

- Applications
- Infrastructure
- 100,000s of servers

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
- Leveraged by 10,000s of developers

Oracle Linux is the runtime standard at Oracle

We run the same Linux and the same KVM hypervisor as our customers on-premises and in the cloud

An open source alternative hypervisor

Ubiquitous on-premises and in the cloud

- Kernel-based Virtual Machine (KVM)
- Virtualization module in the Linux kernel
- Performance advantages
 - Helps lower overhead
 - Can run applications faster than other hypervisors
 - Takes less time to start a virtual server
- Significant scalability advantages
- Hypervisor of choice for public clouds



***KVM is a viable and reliable
general purpose virtualization
solution***

Open source alternative to VMware Cloud Foundation

Designed for multicloud deployments

ORACLE
Virtualization

Core components:

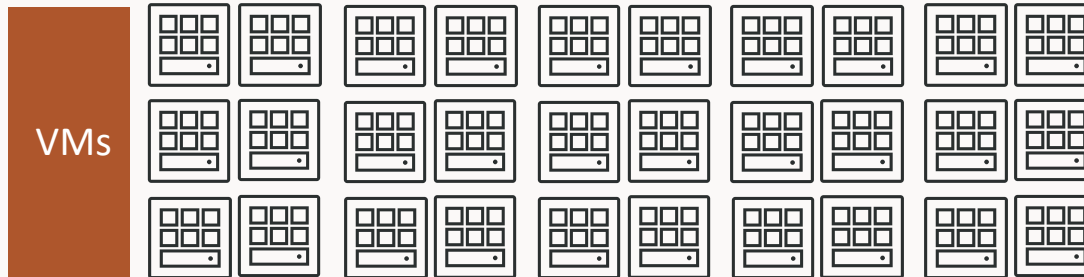
- Oracle Linux Virtualization Manager (Management)
 - Built on oVirt community 4.5 release
 - Oracle Linux 8 base – Premier Support through July 2029
 - New features offer additional operational efficiency and usability
- Oracle Linux KVM (Compute)
 - Oracle Linux 8 KVM host management (UEK or RHCK)
- Oracle VirtIO 2.3 drivers for Microsoft Windows

ORACLE
Linux
Virtualization Manager

ORACLE
Linux
KVM

What does Oracle Virtualization look like?

Solution overview

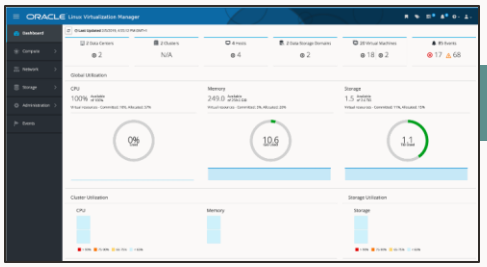


VMs



Control Plane

Oracle Linux KVM Hosts
Shared Network
Shared Storage



Guest OS Support

- Windows Desktop 8, 10, 11
- Windows Server 2016, 2019, 2022, 2025
- Oracle Linux 7/8/9/10
- RHEL 7/8/9/10
- CentOS 7/8
- Rocky Linux 8/9/10
- AlmaLinux OS 8/9/10
- SLES 12/15
- Ubuntu 18.04/20.04/22.04/24.04
- Solaris x86 11.4



Oracle Linux Virtualization Manager

Single pane of glass to manage your entire virtualization environment

The screenshot displays the Oracle Linux Virtualization Manager interface. The top navigation bar includes the Oracle Linux logo and the title 'Virtualization Manager'. A left sidebar contains menu items: Dashboard, Compute, Network, Storage, Administration, and Events. The main content area features a dashboard with several summary cards: '9 Data Centers' (1 warning, 1 info, 7 success), '9 Clusters', '752 Hosts' (752 success), '8 Data Storage Domains', '13247 Virtual Machines' (14 warnings, 3502 info, 9731 success), and '238 Events' (32 warnings, 58 info, 148 success). Below these is a 'Global Utilization' section with three cards: CPU (100% available of 100%), Memory (1.9 available of 1.9 TiB), and Storage (0.0 available of 0 TiB). A large green arrow points from the 'Virtual Machines' card to a table below. The table, titled 'Compute > Virtual Machines', lists 7 VMs with columns for Name, Host, Cluster, Data Center, Memory, CPU, Network, Graphics, Status, Uptime, and Description.

Name	Host	Cluster	Data Center	Memory	CPU	Network	Graphics	Status	Uptime	Description
vm-01-0001	vdsm-01-021	Cluster01	DC01	75%	0%	0%	VNC	Up	3 days	
vm-01-0002	vdsm-01-021	Cluster01	DC01	75%	0%	0%	VNC	Up	3 days	
vm-01-0003	vdsm-01-021	Cluster01	DC01	75%	0%	0%	VNC	Up	3 days	
vm-01-0004	vdsm-01-100	Cluster01	DC01	74%	0%	0%	VNC	Up	2 days	
vm-01-0005	vdsm-01-078	Cluster01	DC01	74%	0%	0%	VNC	Up	2 days	
vm-01-0006	vdsm-01-101	Cluster01	DC01	74%	0%	0%	VNC	Up	2 days	
vm-01-0007	vdsm-01-085	Cluster01	DC01	74%	0%	0%	VNC	Up	2 days	



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



Why Oracle Virtualization is an alternative

Equivalent capability

Oracle Linux Virtualization offers core server virtualization features including:

- Live Migration and Storage Live Migration
- VM High Availability
- VM scheduling policies

Lower cost

No licensing costs because it's all open source

Annual Oracle Linux Premier Plus Support contract

Easy migration

We have an open source tool to convert individual virtual machines

This tool is built into Oracle Linux Virtualization Manager for an easier user experience



Oracle Virtualization

Integrated solutions

- Oracle Virtualization integrations
 - Deliver an open API and maintain compatibility with oVirt community
 - Oracle Cloud Native Environment
 - Leverage best in class partners for advanced features
- Backup/Restore
- Virtual SAN
- Configuration Management
- IT lifecycle management
- Micro segmentation and identity-based protection
- Migrations

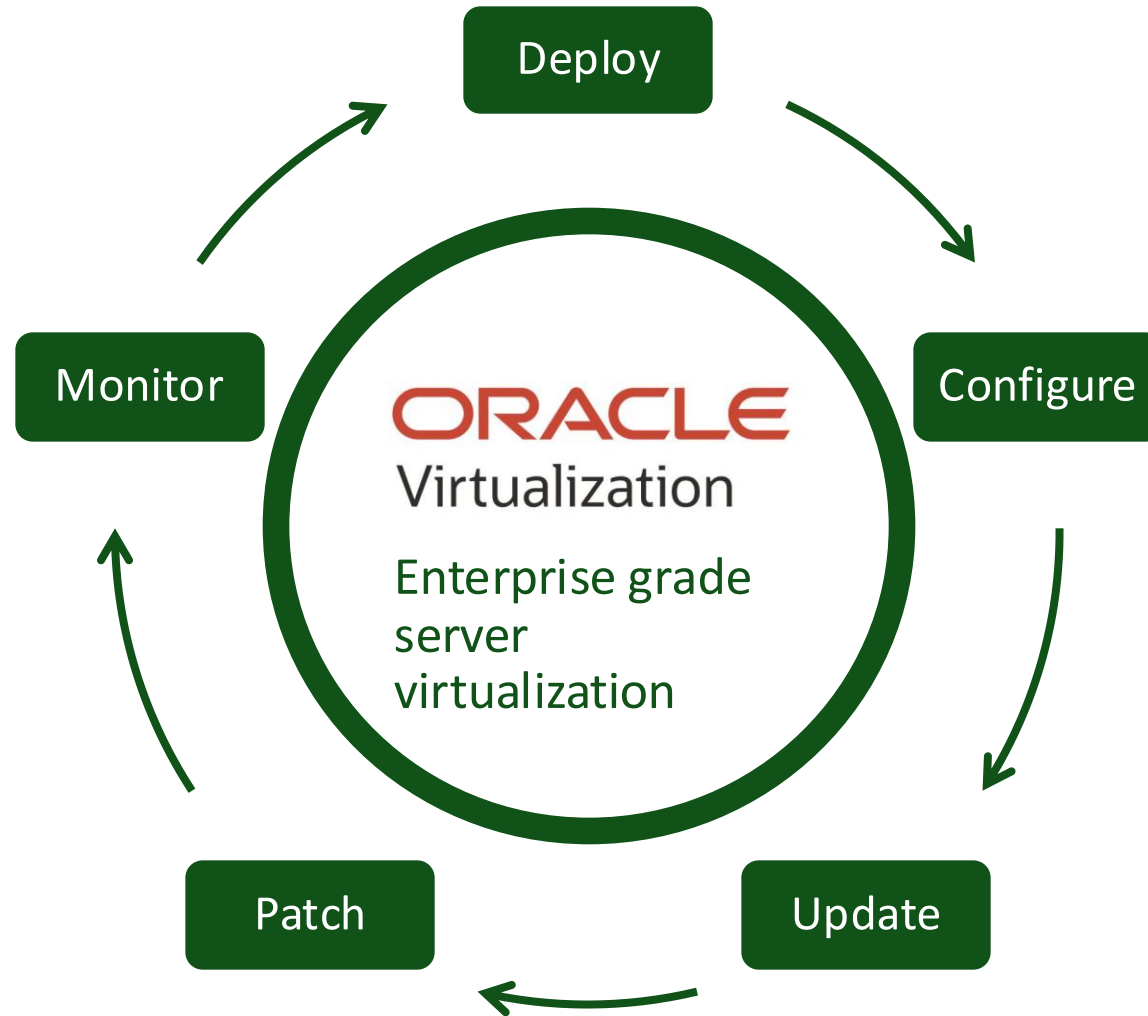


Oracle and kvm – Enterprise grade server virtualization



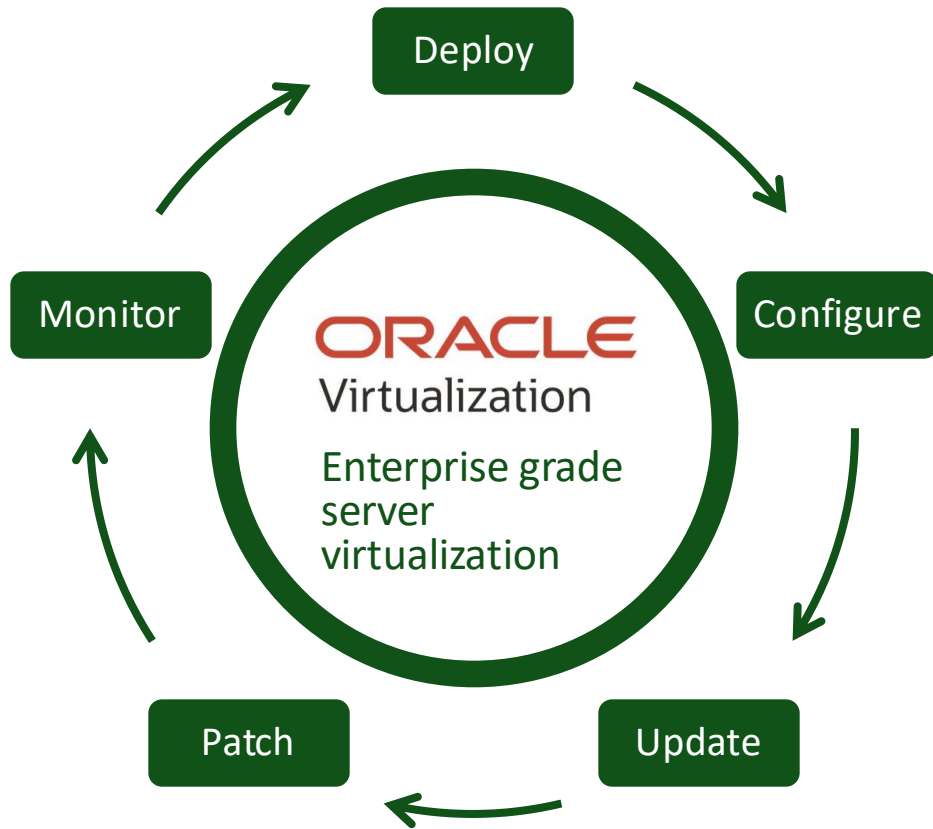
How
Do
You
Manage
Your
Virtualized
Server
Infrastructure?

Oracle and kvm – even better with automation



How
Do
You
Manage
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Virtualized
Server
Infrastructure?

Automate your infrastructure. Free your business.



Automate your infrastructure. Free your business.



The pillars of a perfectly orchestrated IT infrastructure

Automate your infrastructure. Free your business.



Provisioning
Management

Provisioning Management

Automatically deploy new hosts

Use network based, cloud based and container-based mechanisms

Supports Linux and Windows systems

Install on hypervisors, cloud providers and bare metal



Configuration Management

Integration of Ansible, Puppet and Salt Stack

Reduction of manual configuration efforts through automation

Minimization of configuration errors through automated, standardized processes

Centralized control and uniform management across thousands of systems

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Content Management

Content Management

Synchronize software repositories (rpm, deb, Containers, Flatpack, Ansible, files and python)

Consistent versions for development, testing and production

Use filters to control available packages

Automatically update thousands of systems



Patch Management

Early detection and remediation of security vulnerabilities reduces the potential for attack

CVE and errata-based patching to mitigate vulnerabilities

Updates are centrally managed and efficiently rolled out

Test and staging environments ensure that updates work smoothly

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Security
Management

Security and Compliance Management

Centralized security monitoring for all systems in one platform

Early detection and automated remediation of vulnerabilities

Regular scan and create reports of all systems for compliance

Reporting of software usage for subscription tracking



Compliance
Management

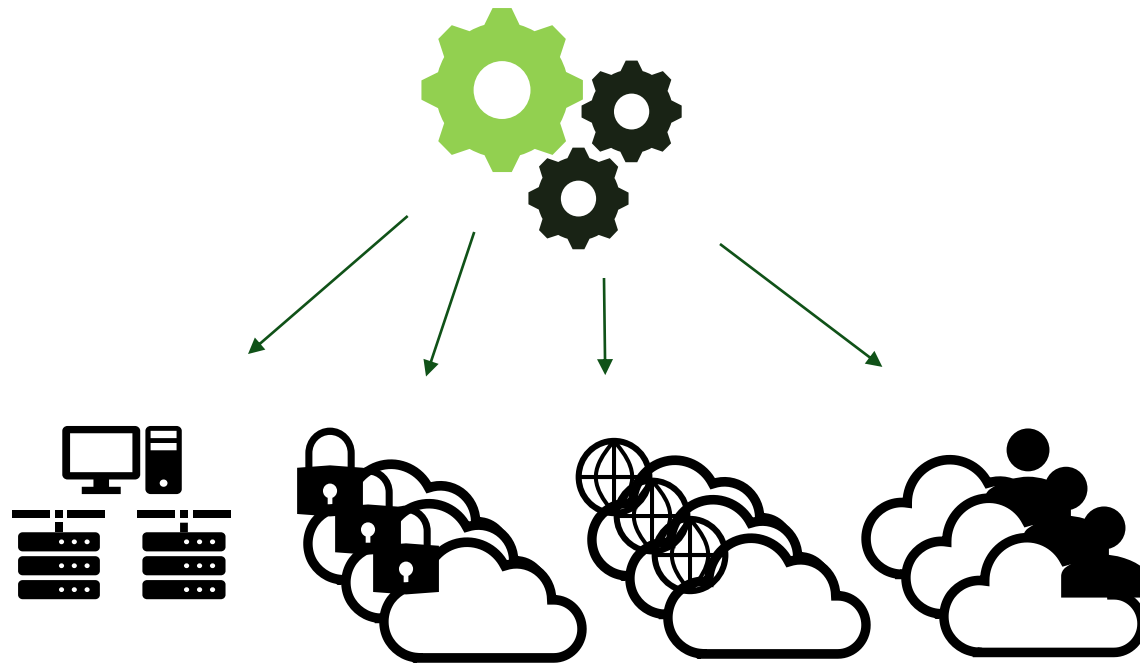
Infrastructure Management

Orchestration of

- Linux and Windows
- Servers, Workstations and Edge Devices
- Physical, virtual and cloud based
- On-premises, cloud and hybrid systems
- X86, PPC, ARM



VENDOR INDEPENDENCE



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puppet **ANSIBLE** **SALTSTACK.**

vmware vSphere **KVM** **ORACLE** Virtualization **PROXMOX**

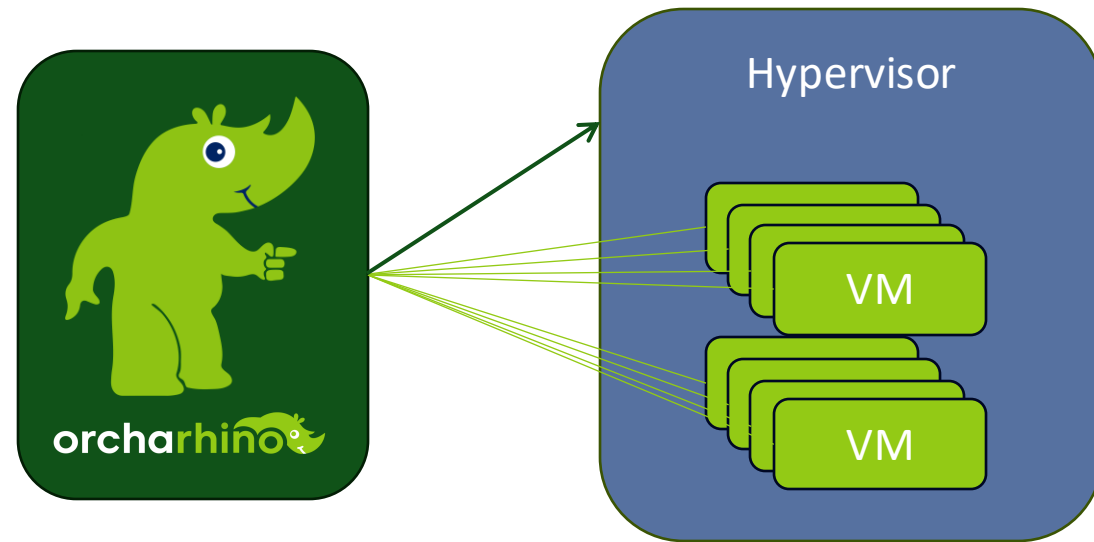
amazon web services™ **EC2** **Microsoft** Azure **Google Cloud Platform**

debian **CentOS** **Red Hat** **ORACLE** LINUX **SUSE** **ubuntu** **Rocky Linux** **AlmaLinux** **Windows**

Use Case: Change of hypervisors

Supported hypervisors

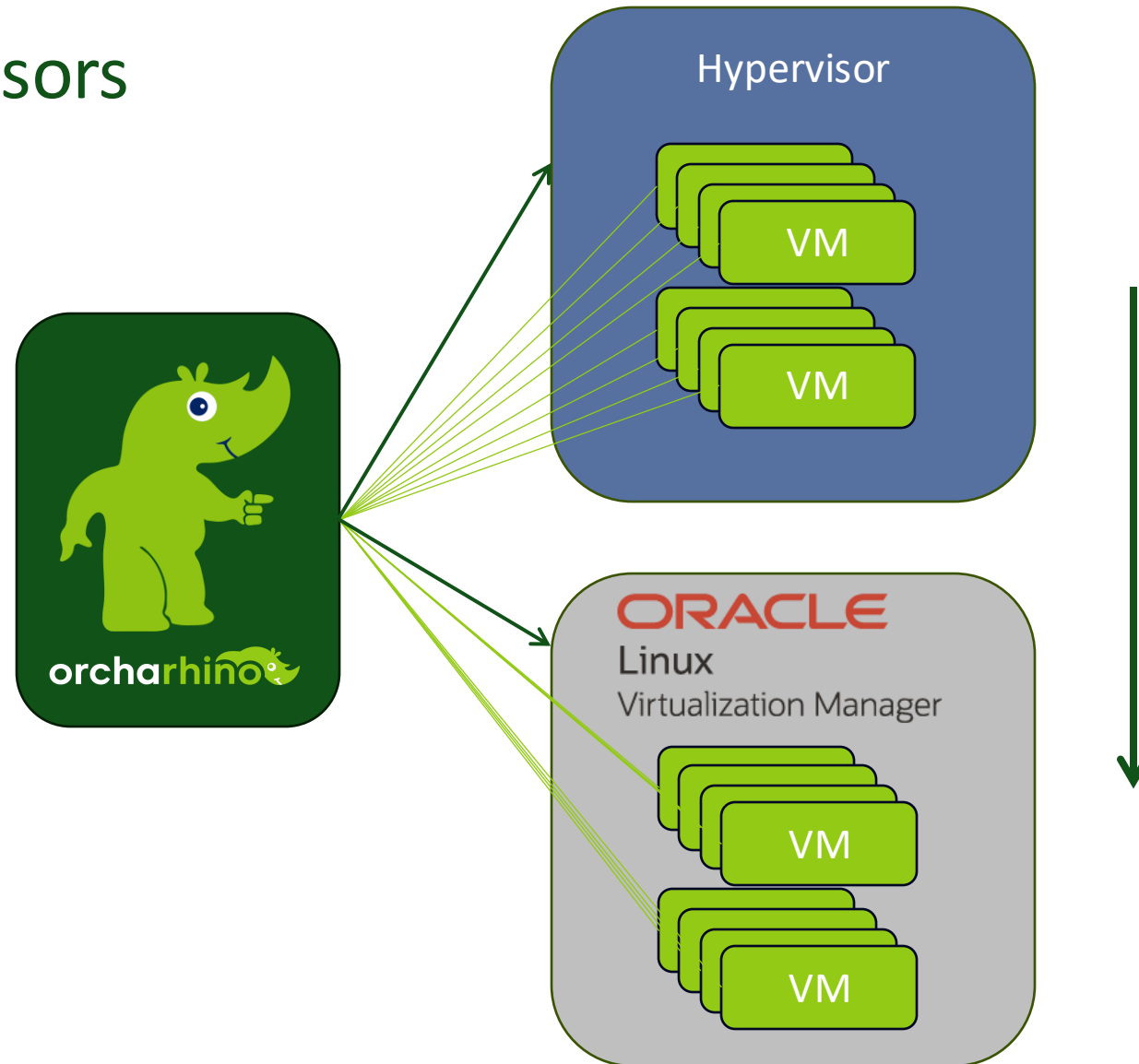
- Same provisioning workflows
- Maintain workflows when changing hypervisors



Use Case: Change of hypervisors

Supported hypervisors

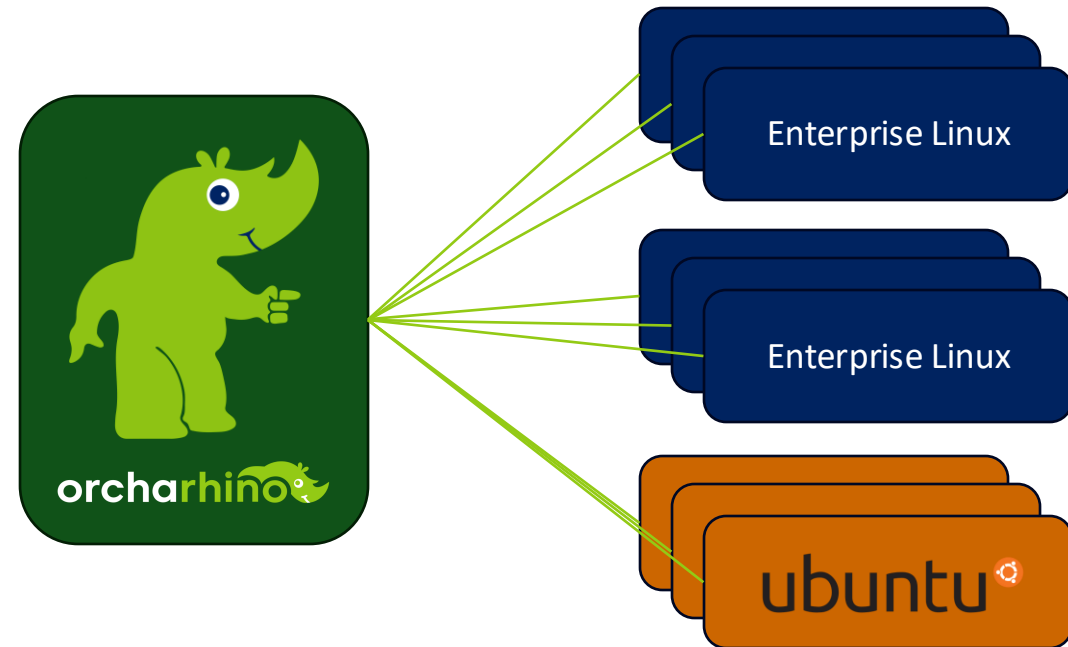
- Same provisioning workflows
- Maintain workflows when changing hypervisors
- Provide new VMs for migration
- Central management of multiple (different) hypervisors



Use Case: Migration of operating systems

Support for multiple OS:

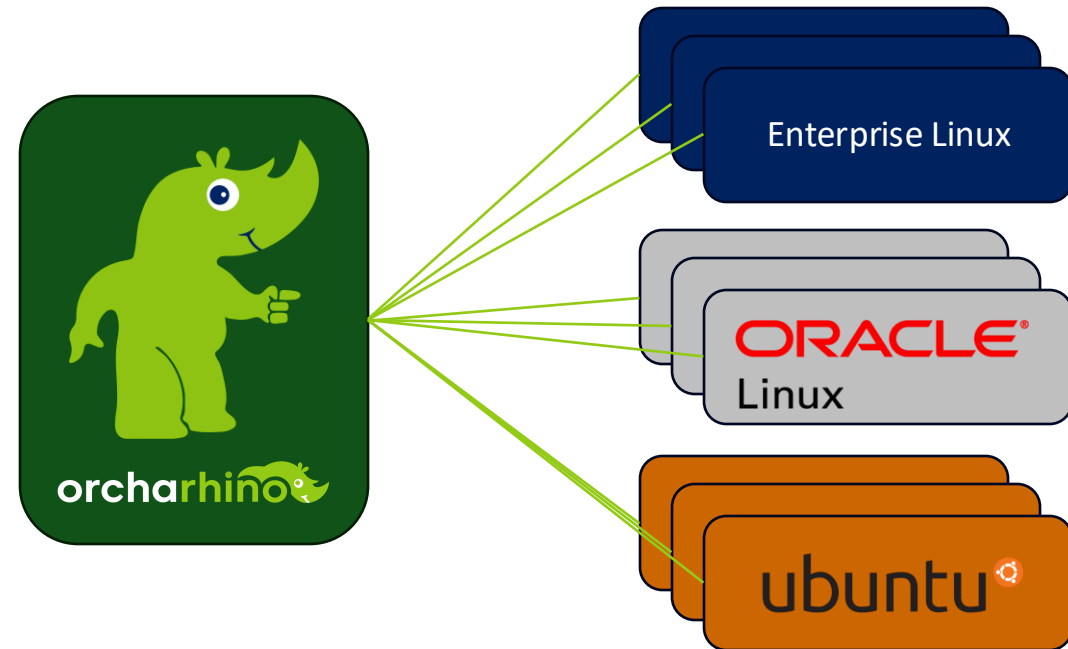
- Manage mixed environments



Use Case: Migration of operating systems

Support for multiple OS:

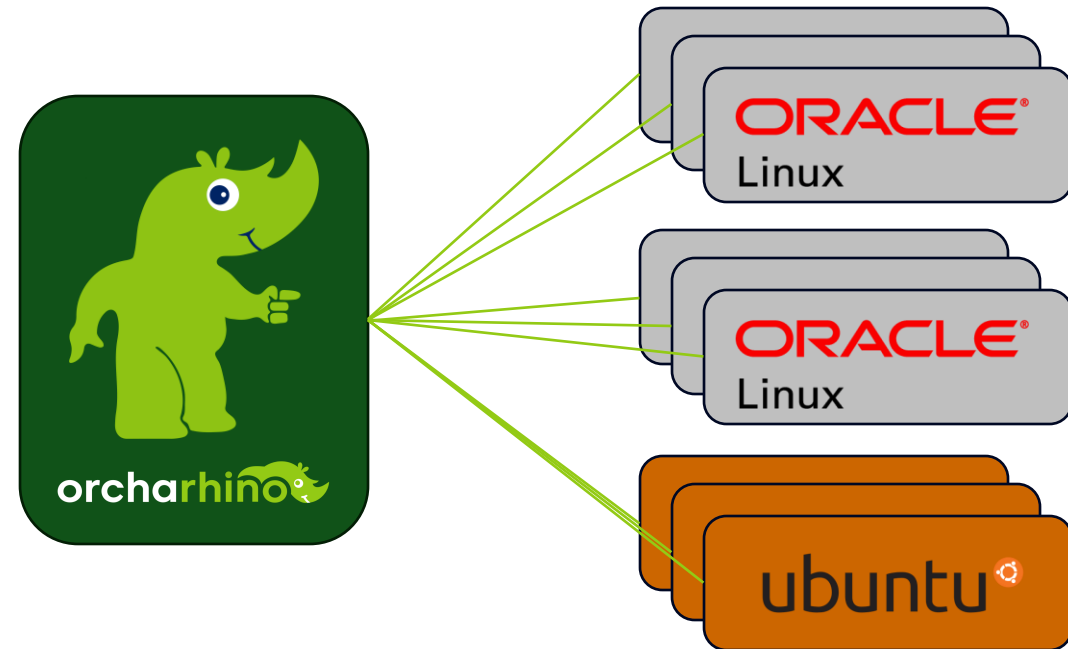
- Manage mixed environments
- Convert Enterprise Linux (e.g. to Oracle Linux)



Use Case: Migration of operating systems

Support for multiple OS:

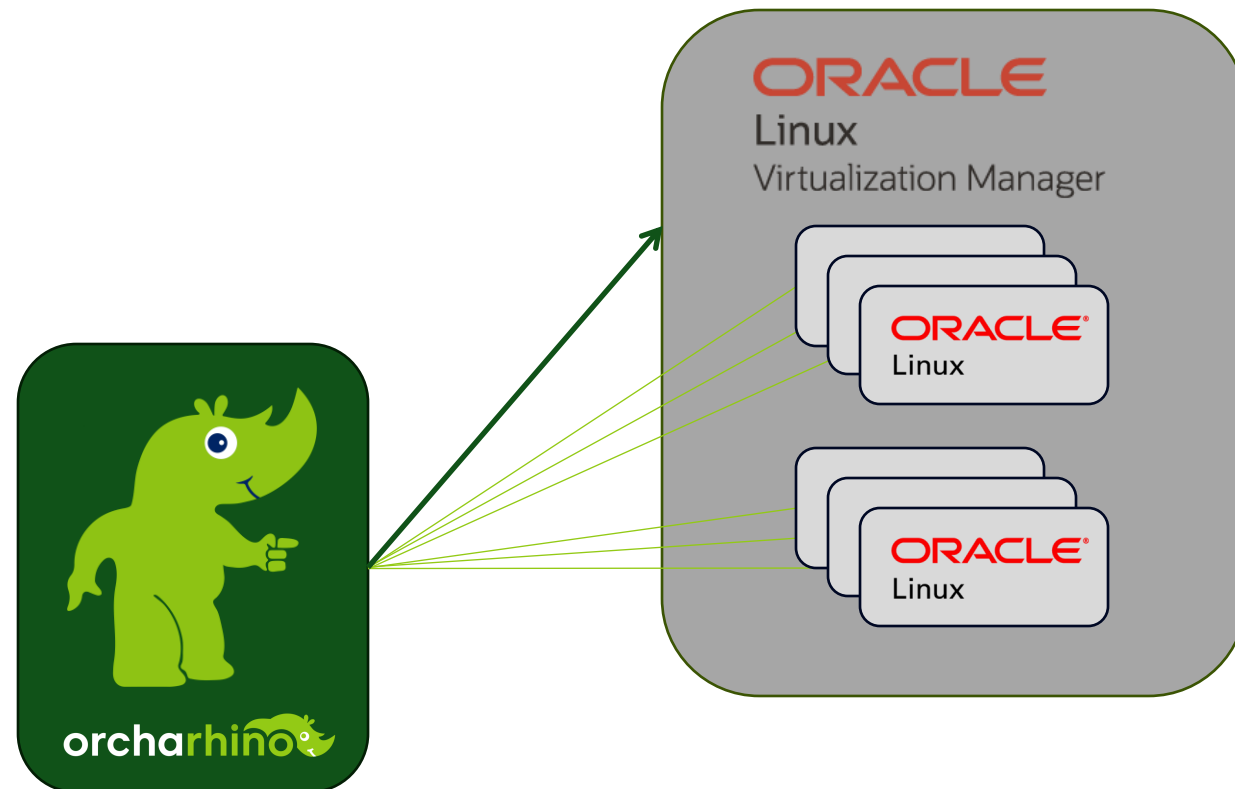
- Manage mixed environments
- Convert Enterprise Linux (e.g. to Oracle Linux)
- Automate conversion to scale with your infrastructure

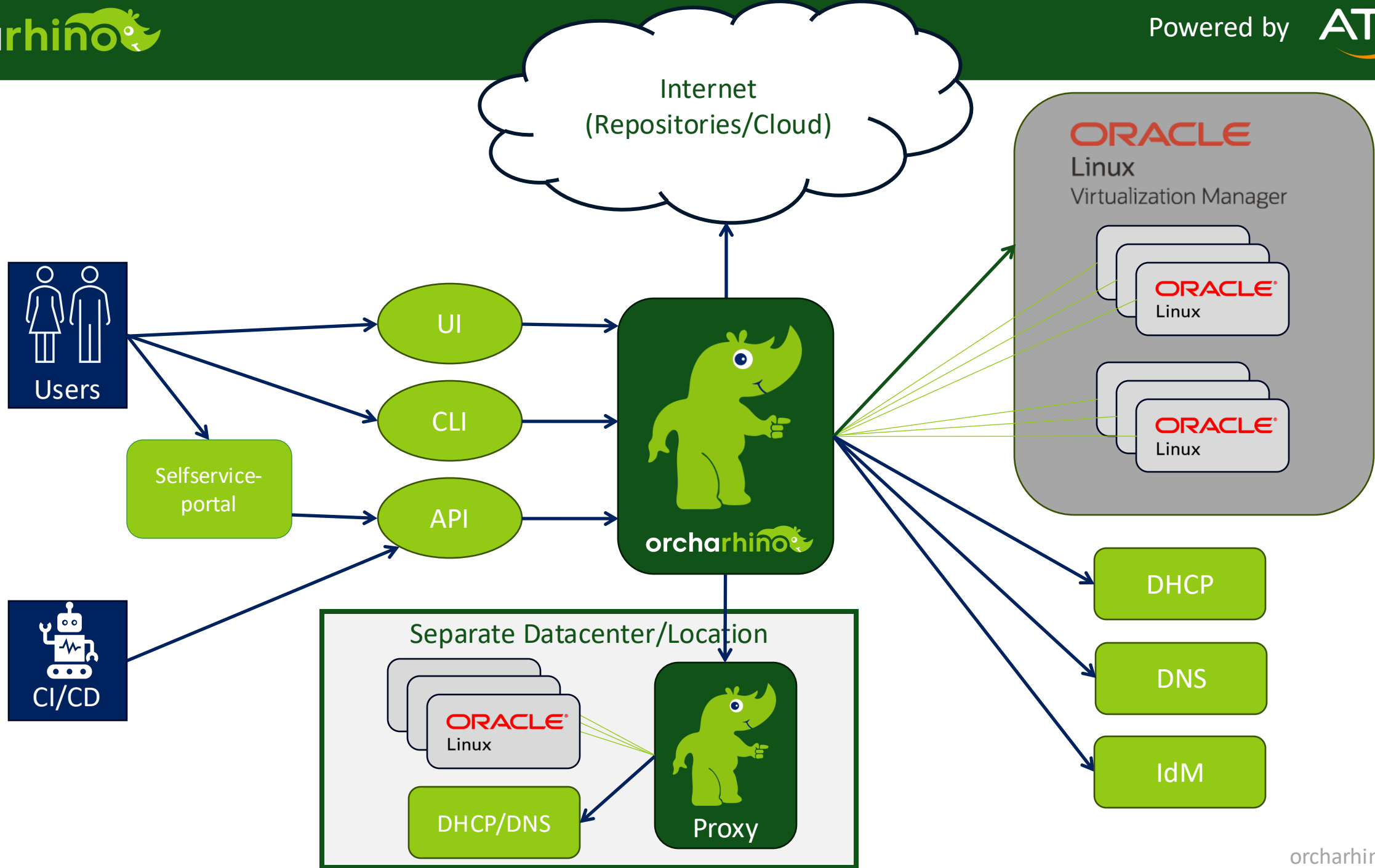


Central orchestration

orcharhino and OLVM
as core of the infrastructure

Connect it with existing services







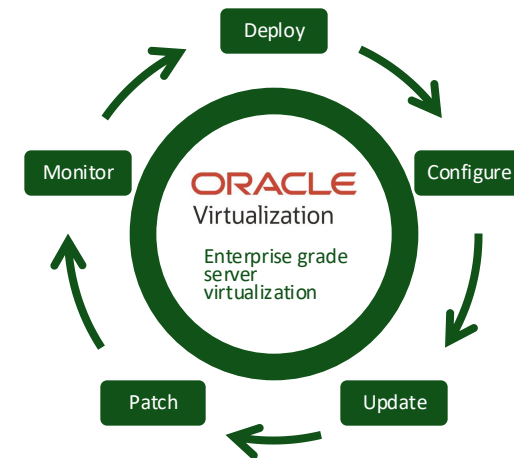
Automate your infrastructure

Combination of OLVM and



- Deploy
- Configure
- Patch
- Migrate

your systems with a central orchestration!



Choose your free start option



orcharhino Web demo

Live demo with our team

Experience orcharhino in action – without any installation. In a personal appointment, our team will guide you live through orcharhino and answer your questions individually.

Select this option



orcharhino In A Box

Your personal test environment

We provide you with an individual orcharhino installation. You will receive exclusive access and can test orcharhino independently for 30 days free of charge and without obligation – without any effort on your part.

Select this option



orcharhino download

Install and test yourself

Download orcharhino and test the software for 30 days free of charge and without obligation in your own environment. Ideal if you want to try it out yourself.

Select this option

Automate your infrastructure. Free your business.

Thank You! We're happy to answer your questions

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Virtualization



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