

# SELF-DRIVING OPERATIONS BY VMWARE vREALIZE OPERATIONS

## AT A GLANCE

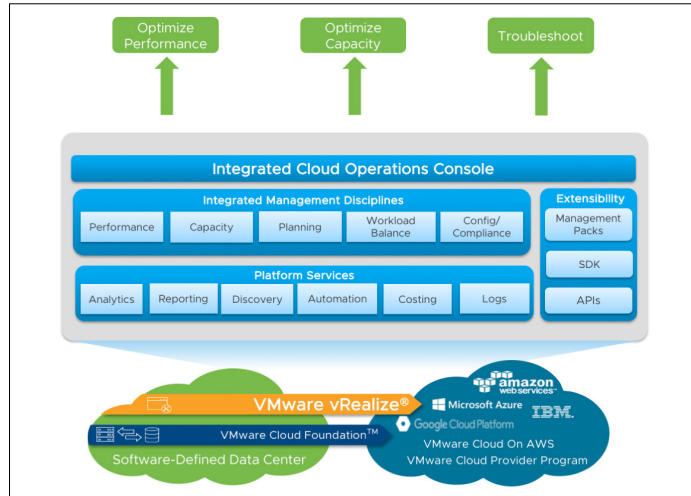
Self-driving operations by VMware vRealize® Operations™ delivers continuous performance optimization at minimal cost driven by business and operational intent, efficient capacity management and planning and intelligent remediation. It automates and simplifies IT operations management and provides unified visibility from applications to infrastructure across physical, virtual and cloud environments.

## KEY BENEFITS

- Centralized management for software-defined data center (SDDC) and multi-cloud environments
- Intent-driven automated workload balancing and predictive DRS to resolve resource contention and enable continuous performance optimization
- Real-time, predictive capacity analytics to proactively alert on capacity risk, forecast future demand and deliver actionable recommendations
- Integration of costs with capacity analytics to optimize utilization and reduce costs
- Cost transparency across private and public clouds to optimize planning
- Integration with vRealize Log Insight for 360 degree troubleshooting with metrics and logs in-context
- Complete vSAN operations management that starts in VMware vCenter® and delivers full stack troubleshooting and capacity management
- Fully open and extensible platform

## LEARN MORE

For more information or to purchase VMware products call 1-877-VMWARE (outside North America, +1-650-427-5000), visit <http://www.vmware.com/products>, or search online for an authorized reseller. For detailed product specifications and system requirements, refer to the VMware vRealize Operations documentation at [www.vmware.com/products/vrealize-operations](http://www.vmware.com/products/vrealize-operations).



Self-Driving Operations for physical, virtual and cloud infrastructures

## Self-Driving Operations Overview

VMware delivers self-driving operations from applications to infrastructure to optimize, plan and scale SDDC and multi-cloud deployments. This highly scalable, extensible and intuitive operations platform automates and centralizes management for SDDC and cloud, delivering continuous performance optimization based on intent, efficient capacity management, proactive planning and intelligent remediation.

## Use Cases:

**Continuous performance optimization** - Assure performance at minimal cost, driven by operational and business intent with predictive analytics driving actions to automatically balance workloads and proactively avoid contention. Automate workload balancing to reduce software license costs, optimize based on performance tiers, densify clusters or enforce compliance.

**Efficient capacity management and planning** - Reduce cost and capacity risk with real-time, predictive capacity analytics delivering optimal densification and proactive planning. Predict future demand, get actionable recommendations and automate reclamation and right-sizing. Integrate costs and capacity analytics to optimize utilization and reduce costs. Advanced what-if scenarios help plan capacity and model best-fit for new workloads across private cloud and multiple public clouds.

**Intelligent Remediation** - Predict, prevent and troubleshoot faster with actionable insights correlating metrics and logs and unified visibility from applications to infrastructure. Centralize IT operations management with native SDDC integrations, federated views and a highly scalable and extensible platform. Manage SDDC technologies, like VMware vSAN™, at scale with operational visibility that starts in vCenter and delivers full environment overview, troubleshooting and capacity management.

SELF-DRIVING OPERATIONS				
vRealize Operations		Standard	Advanced <sup>1</sup>	Enterprise <sup>1</sup>
		vROPS STD	vROPS ADV <sup>1</sup>	vROPS ENT <sup>1</sup>
<b>Standalone</b>		Per Operating System Instance (OSI)	Per Operating Systems Instance (OSI)/Per Processor (CPU)	Per Operating Systems Instance (OSI)
<b>Available in Suite</b>		VMware vSphere with Operations Management (CPU)	VMware vRealize Suite/vCloud Suite Standard, Advanced (PLU)	VMware vRealize Suite/vCloud Suite Advanced, Enterprise (PLU)
vRealize Operations	Scale Out Operations Platform	•	•	•
	Single Sign-on	•	•	•
	Remote Collectors	•	•	•
	Visualization: Out Of the Box Dashboards, Views, Reports, Heat map, Performance Charts	•	•	•
	Policy Management	•	•	•
	Performance Monitoring and Analytics	•	•	•
	vSphere Security and Compliance	•	•	•
	Real-time Predictive Capacity Management including trending, metering, right-sizing, optimization	•	•	•
	Overall Data Center Cost Views	•	•	•
	What-if Scenarios for Adding VMs to Private Cloud and VMware Cloud on AWS (no Costing in STD)	•	•	•
	Business-Intent Based Manual Workload Optimization	•	•	•
	Predictive DRS and DRS Management	•	•	•
	Guided Remediation	•	•	•
	vRealize Log Insight Integration	•	•	•
	vSAN Overview & Migration Dashboards (EULA)	•	•	•
	Wavefront Integration	•	•	•
	Built-in High Availability (Automated Failover of Platform Nodes)		•	•
	Customizable Dashboards, Reports and Views		•	•
	Super Metrics		•	•
	Advanced APIs: Resource/Data Addition, Report Generation, etc.		•	•
Fine-grained Cost Analytics for Reclamation, Planning and Public Cloud Cost Comparison		•	•	
What-if Scenarios for Adding VMs to Private and Public Clouds (AWS and VMware Cloud on AWS)		•	•	
Business-Intent Based Automated and Schedulable Workload Balancing		•	•	

<sup>1</sup> VMware Configurations Manager is included vRealize Operations Standalone ADV and ENT editions. Actual capabilities vary by edition. Not included in vRealize or vCloud Suites.

VMware Configurations Manager	
vSphere change, configuration, and regulatory compliance	vRealize Operations Advanced
OS-level change, configuration, regulatory compliance (PCI, HIPAA, SOX, etc.)	vRealize Operations Enterprise
Patch Management	vRealize Operations Enterprise

SELF-DRIVING OPERATIONS				
vRealize Operations		Standard	Advanced <sup>1</sup>	Enterprise <sup>1</sup>
vRealize Operations	Automated Actions (EULA restricted)		•	•
	vSAN Troubleshooting and Capacity Management		•	•
	SDDC Health Management Pack		•	•
	vRealize Orchestrator Management Pack		•	•
	Monitoring of OS Resources (CPU, disk, memory, network)		•	•
	Service Discovery & Application Dependency Mapping <sup>2</sup>		•	•
	3rd-Party Management Packs: Storage, Networking, Converged/Hyper Converged as well as non-vSphere hypervisors <sup>3</sup>		•	•
	Multi-cloud Monitoring Management Packs: AWS, vCloud Air, OpenStack		•	•
	Care System Analytics Management Pack			•
	3rd party Database, Middelware, Application Management Packs			•
	Application, Middleware and Database Monitoring			•
vRealize Log Insight		Limited	Full	Full
<b>Standalone</b>		NA	Per Operating Systems Instance (OSI)/Per Processor (CPU)	Per Operating Systems Instance (OSI)/Per Processor (CPU)
<b>Available in Suite</b>		vCenter Server Standard	VMware vRealize Suite/vCloud Suite Standard, Advanced (PLU)	VMware vRealize Suite/ vCloud Suite Enterprise (PLU)
vRealize Log Insight	Unstructured Data Analytics	•	•	•
	Log Management	•	•	•
	Machine Learning / Predictive Analytics	•	•	•
	Clustering		•	•
	High Availability		•	•
	Log forwarding		•	•
	Archiving		•	•
	Access to Content Packs		•	•
Limitation	25 Log Streams/ OSI		NA	NA

2 Application dependency mapping is available via VMware Infrastructure Navigator or with Service Discovery management pack. VMware Infrastructure Navigator is not compatible with vSphere 6.5

3 Limited set of compute and essential storage management packs are available with vRealize Operations STD. Check <https://marketplace.vmware.com/vsx/>

