

# REDUCE TCO AND IMPROVE BUSINESS AND OPERATIONAL EFFICIENCY

## Drive Up Operational Efficiency and Drive Down TCO

VMware HCI with Operations Management is the foundation for modern infrastructure, reducing TCO and improving business and operational efficiencies. HCI with Operations Management is built on the powerful combination of industry-leading virtual storage with VMware vSAN™ and Intelligent Operations Management with VMware vRealize® Operations™. It integrates compute, storage, and cloud management for continuous performance, proactive troubleshooting, and capacity and cost optimization.

## vRealize Operations with Native vSAN Integration

Proven VMware vSAN storage technology is delivering on the agility and cost-efficiency promises of Hyper-Converged Infrastructure (HCI), accelerating data center modernization initiatives and elevating IT as a strategic advantage. For organizations looking to optimize infrastructure performance and availability, VMware vRealize Operations speeds vSAN time to production with natively integrated vSAN monitoring and management capabilities.

vRealize Operations with native vSAN management is a powerful combination of technologies, popular with enterprises running large-scale data centers. The solution improves IT efficiency by ensuring optimized multi-cluster vSAN management, predictive analytics for performance and capacity management, complete visibility across workloads for rapid troubleshooting and central management at scale. IT teams can simply and proactively monitor infrastructure health and quickly resolve issues while increasing application uptime and reducing the risk of business disruption. Ultimately, vRealize Operations with native vSAN management helps lower costs and shift resources to more strategic initiatives.

vRealize Operations delivers Intelligent Operations across all Software-Defined Data Center (SDDC) components—virtual compute, storage, and networking—enabling organizations to plan, manage and scale SDDC and multi-cloud environments with confidence.

This document highlights key capabilities and the benefits of deploying vRealize Operations for vSAN.

[Video](#)  
[Product Overview](#)  
[Test Drive](#)  
[vRealize Operations](#)

## Solving IT Management and Storage Challenges

The decision to transition to storage is a big step toward reducing overall IT costs. vRealize Operations accelerates the vSAN adoption journey by providing IT teams with greater visibility and insight across all resources. vRealize Operations with integrated vSAN supports the following use cases:

### Understand Historical Trends and the Impact of Changes

- Build confidence by modeling and forecasting the impacts of policies and changes (e.g., storage policies per VM).

### KEY HIGHLIGHTS

- Lower TCO and Improve Operational Efficiency with Unified Management of Compute and Storage
- Accelerate Time to Value with Seamless Adoption, Optimization and Scaling of HCI Solution
- Increase Agility and Simplify Management of the Modern Infrastructure
- Improve Performance with Predictive Analytics and Proactive Alerting to Quickly Correlate Issues Across the SDDC
- Achieve Continuous Capacity Management
- Maximize Utilization and Proactively Reduce Capacity Risk
- Gain Workload to Dying Disk Root-cause Analysis
- Realize Cost Insights and Densification
- Simplify Management of Heterogeneous Storage with a Common Control Plane

- Quickly identify better configurations and reclamation opportunities.
- Higher visibility into efficiency of deduplication and compression simplifies future planning.

### Correlate and Consolidate Issues to Accelerate Troubleshooting

- Ensure operational readiness with unified, line-of-sight visibility across the entire application stack—from databases to VMs to storage resources.
- Speed troubleshooting and resolution with correlated alerts and vSAN specific dashboards and health checks all the way to the disk-level.
- Uncover storage and other infrastructure dependencies then take advantage of out-of-the-box corrective actions to alleviate storage and other infrastructure dependencies to accelerate the customer's time to value.

### Manage vSAN Capacity

- Efficiently monitor utilization and proactively identify capacity risk, including time remaining and capacity remaining.
- Gain visibility into aggregate and per-cluster capacity, used capacity, and free capacity with actionable insights into deduplication/compression ratios and reclaimable capacity.
- Use predictive analytics to proactively plan for upcoming capacity needs.

### Centrally Manage at Scale

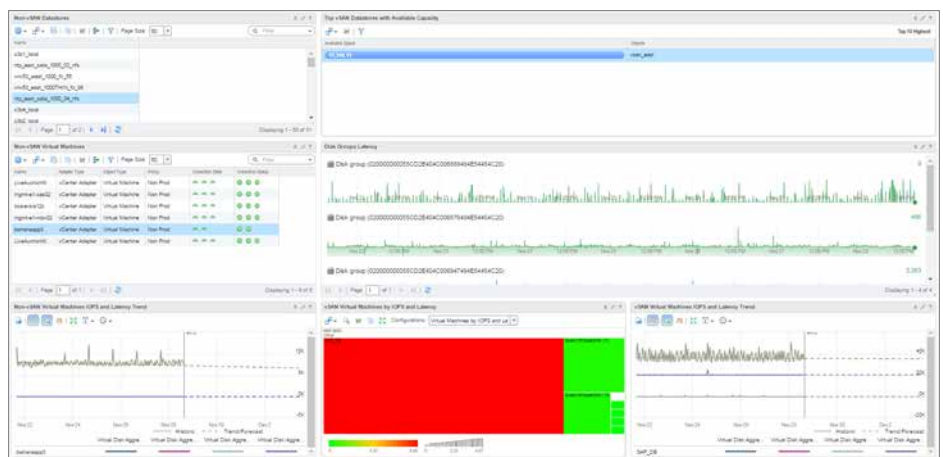
- Achieve enterprise-wide visibility across sites and stretched clusters.
- Reduce unplanned downtime with proactive alerting from VMs to all vSAN components, including physical disks.
- Reduce risk by ensuring hardening for vSAN and all VMware SDDC components.

## Accelerate the vSAN Journey with vRealize Operations

vRealize Operations with native integration of vRealize Operations with vSAN is the best platform to manage.

### Phase 1: Build Confidence with Simplify HCI Adoption

The integration of vSAN into vRealize Operations enables organizations to enhance IT efficiencies by providing out-of-the-box instructions for rapid evaluation, set up, and remediation of all-flash storage on VMs.



## Steps

1. Deploy vRealize Operations in an environment running vSAN.
2. Select the vSAN tab in vRealize Operations to begin set up.
3. Check the readiness of vSAN infrastructure (e.g., topology health) using the vSAN Overview Dashboard & review vSAN Alerts.
4. Confirm configuration.
5. Measure the before and after performance of VMs and apps moved to vSAN.
6. Track performance and record performance history as workloads move to vSAN.

## Answer Key Questions

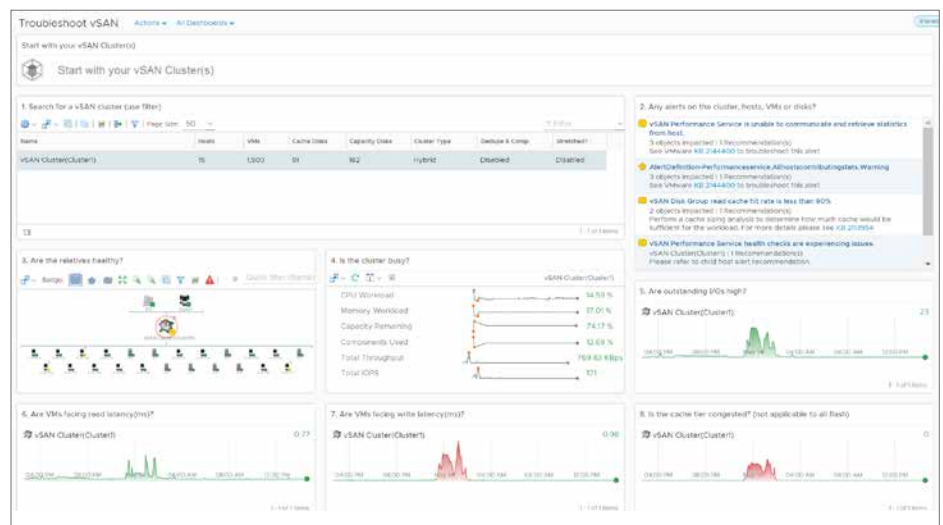
- How do we know vSAN is set up correctly?
- What issues should we look for first?
- What types of issues are important?

## Benefits

- Faster evaluation and deployment
- Complete visibility—from VM to disk
- Leverage the same skills and tools across all SDDC components (e.g., virtual compute, storage, networking)

## Phase 2: Operationalize in Production

Native vSAN integration in vRealize Operations builds IT team confidence in moving production workloads on to vSAN clusters. Teams can validate scenarios and forecast impacts, as well as quickly troubleshoot storage and other SDDC components in production because they are proactively notified of infrastructure issues and can quickly filter and identify root causes. Health and performance monitoring is simplified with vRealize Operations integrated persona-based dashboards providing visibility into performance, capacity, configuration, and compliance.



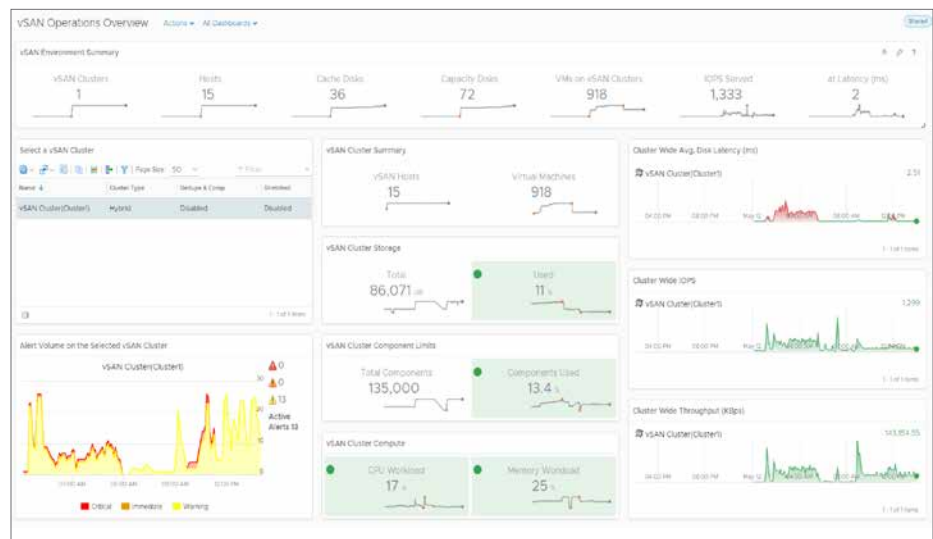


## Benefits

- Proactively manage capacity.
- Lower risks and unplanned downtime.

## Phase 4: Centrally Manage at Scale

vRealize Operations with native vSAN management extends advanced troubleshooting, proactive alerting, and end-to-end visibility across all vSAN environments—multi-site and stretched clusters.



## Steps

1. Further simplify large vSAN deployment operations using vRealize Operations for centralized management of both multi-site and stretched clusters.
2. Use the Central Overview Dashboard to see total inventory including disks, capacity, and critical issues at aggregate and per vSAN cluster levels.

## Answer Key Questions

- How do we get visibility across sites and stretched clusters?
- How do we reduce unplanned downtime?
- How can we ensure hardening across all SDDC components?

## Benefits

- Complete visibility
- Reduced downtime

Learn more about [vRealize Operations with native vSAN integration](#).

