DELL VXRAIL HCI SYSTEM SOFTWARE

Powering seamless IT modernization

Optimize your operations,
empower your IT team,
drive business growth.

DELLTechnologies

intel.

DELL Technologies

The VxRail Advantage

Modern IT demands streamlined operations, performance, and innovation—without unnecessary complexity. Leading organizations are upgrading to our latest VxRail offerings, the straightforward path to modernization. VxRail delivers industry-leading innovation tailored for core, edge, and cloud environments.

Built for VMware environments, VxRail forms the foundation for IT modernization.

Powered by Dell PowerEdge servers with the latest Intel® processors, VxRail future-proofs your infrastructure and seamlessly integrates with the VMware® ecosystem. VxRail simplifies operations and accelerates innovation across your entire IT landscape, delivering efficiency, scalability, and cost savings synonymous with a true hyperconverged infrastructure (HCI) solution.

VxRail HCI System Software

Further empower your team and optimize your infrastructure by providing HCI users with:

Consistent operations using native integration

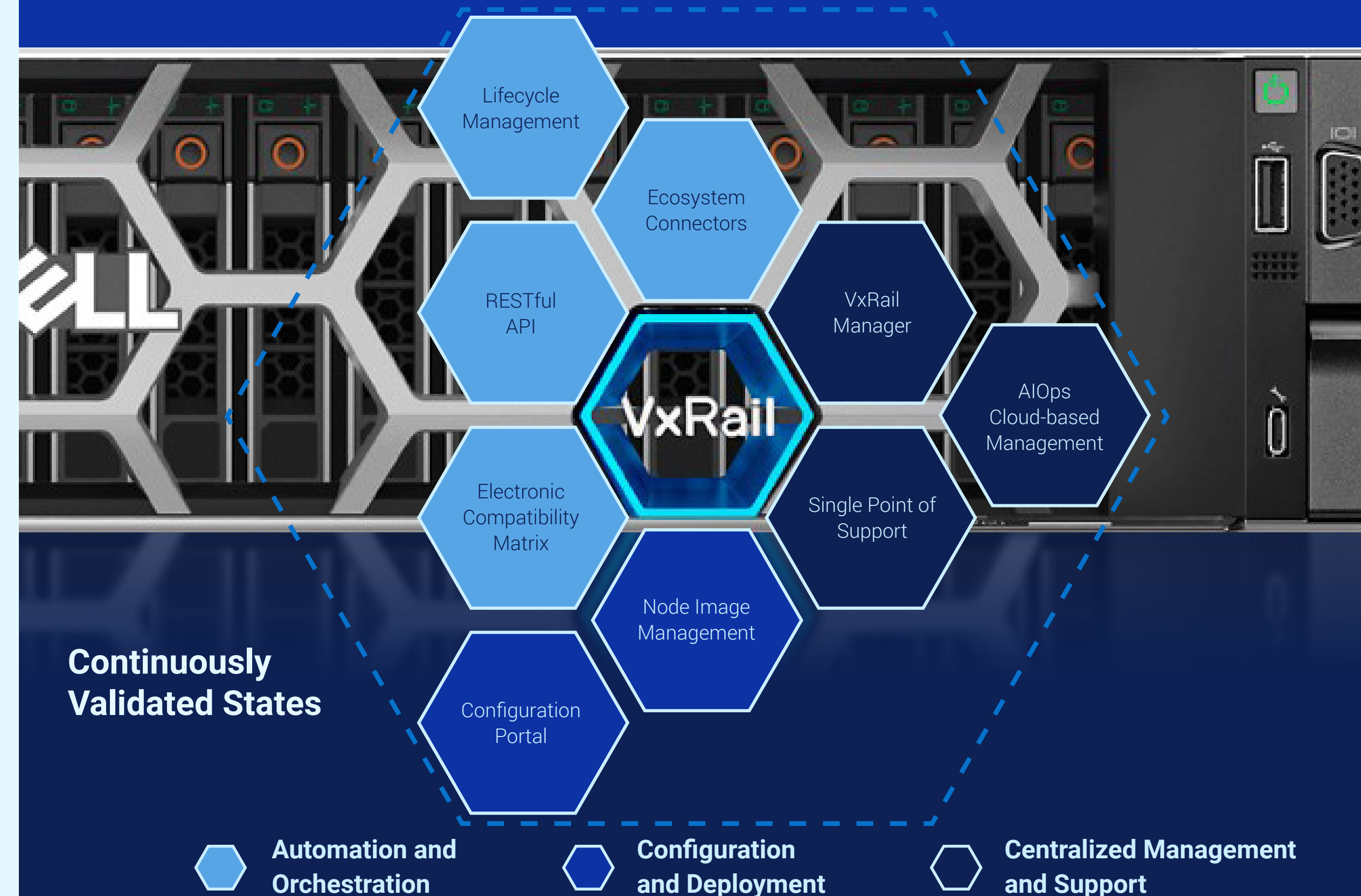Familiar management tools

Integrated Lifecycle Management (LCM)
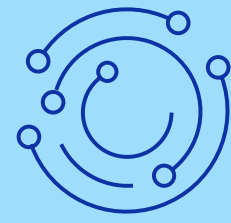
APIs for extensibility

Lifecycle Management

Ecosystem Connectors

RESTful API

VxRail Manager

VxRail

AIOps Cloud-based Management

Electronic Compatibility Matrix

Single Point of Support

Node Image Management

Continuously Validated States

Configuration Portal

Automation and Orchestration

Configuration and Deployment

Centralized Management and Support
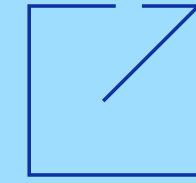
VxRail HCI System Software

DELLTechnologies

The VxRail turnkey experience starts with full software and hardware alignment, ensuring comprehensive control and visibility across your VMware environment. But it doesn't stop there. VxRail offers a suite of highly distinctive features and advantages, powered by its proprietary VxRail HCI System Software. This unique combination automates deployment, provides full stack lifecycle management, and facilitates critical upstream and downstream integration points – all with VxRail as your foundation.

Automation & orchestration

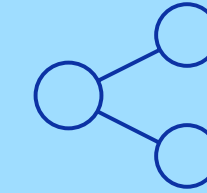### Lifecycle Management
Optimizes clusters with validated updates, automating health checks, patching, and ensuring compliance for seamless operations.
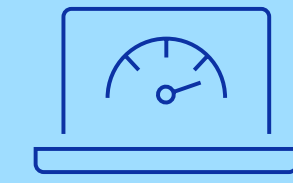
RESTful APIs
Empowers cloud-like scalability and agility, simplifying automation across the data center for streamlined IT operations, supporting various interfaces.

Ecosystem Connectors
Integrates software and hardware for automated lifecycle management, diagnostics, and orchestration, tightly binding infrastructure components for seamless operations.

Electronic Compatibility Matrix
Validates configuration and upgrade paths, enabling optimized cluster states and seamless bypassing of releases and patches for uninterrupted operations.

Centralized management & support

VxRail Manager
Centralizes cluster operations, integrating seamlessly with VMware vCenter for deployment, diagnostics, and support, simplifying management tasks.

AIOps Cloud-based Management
Leverages AI/ML to optimize performance, predict issues, and streamline upgrades – resulting in higher system availability and easier multi-cluster operations.

Configuration & deployment

Configuration Portal
Streamlines self-deployment, offering control, flexibility, and maximum availability.

Node Image Management
Efficiently manages node images, facilitating redeployment and version control for scalability and flexibility in cluster expansions.

Single Point of Support
Ensure maximum availability for both hardware and software.

DELLTechnologies

VxRail Manager

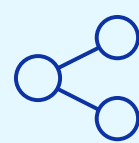## Global management with a fully integrated vCenter experience

Deploy | Manage | Upgrade | Patch | Add/retire nodes | Find support

VxRail Manager integrates seamlessly with VMware vCenter to provide a suite of features that streamline and automate VxRail cluster management:

Simplicity
- Consolidate management systems.
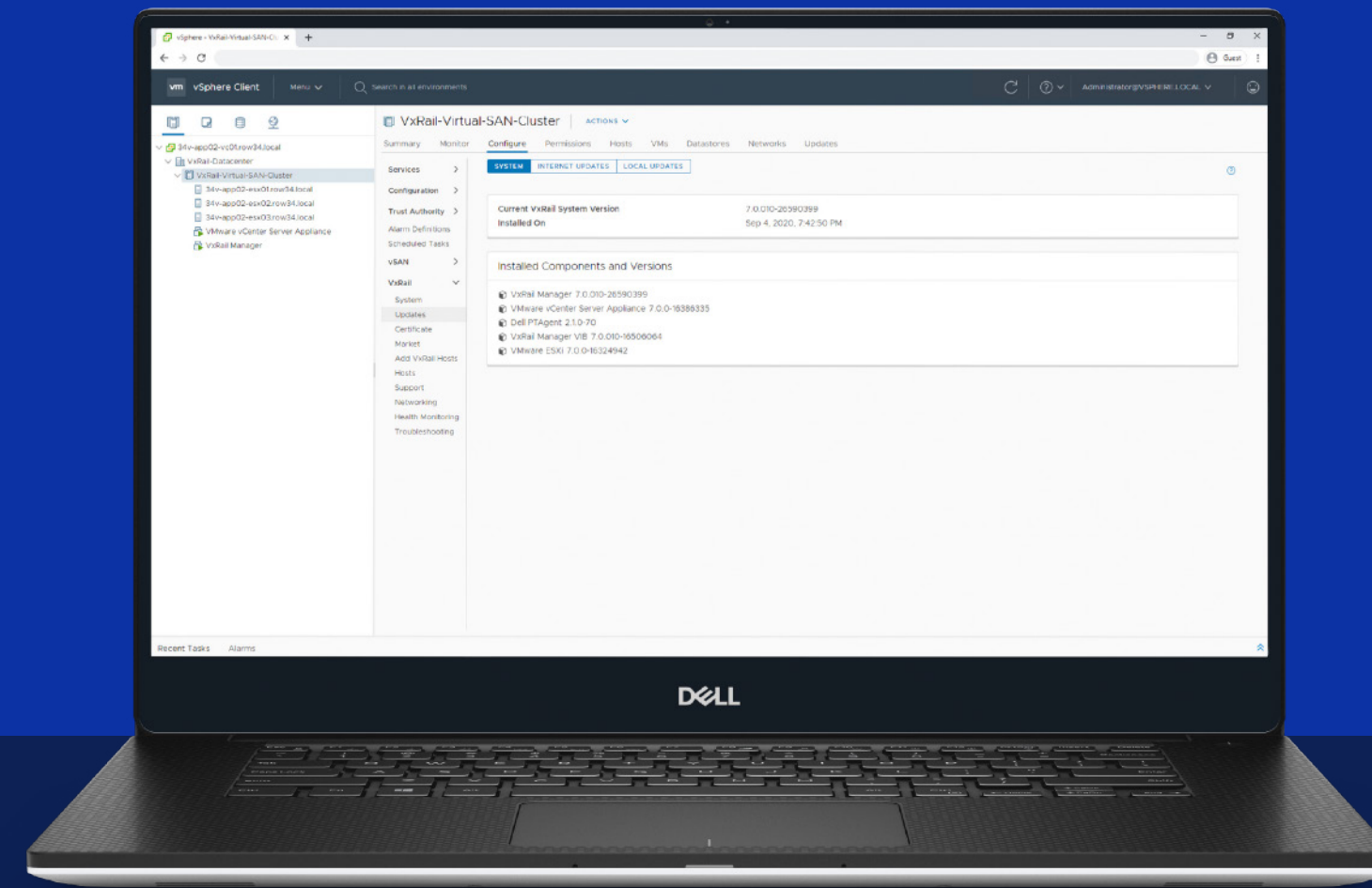- Perform diagnostics with detailed node views.

Automation
- Detect and add new nodes automatically.
- Automate Day 0, Day 1, and Day 2 operations.

Be more efficient

Familiar tools for managing your entire VMware environment

VxRail Manager provides a common user experience for servicing hardware and managing your entire VxRail system lifecycle – from running prechecks, scheduling and executing updates, getting update status, and running compliance reports.
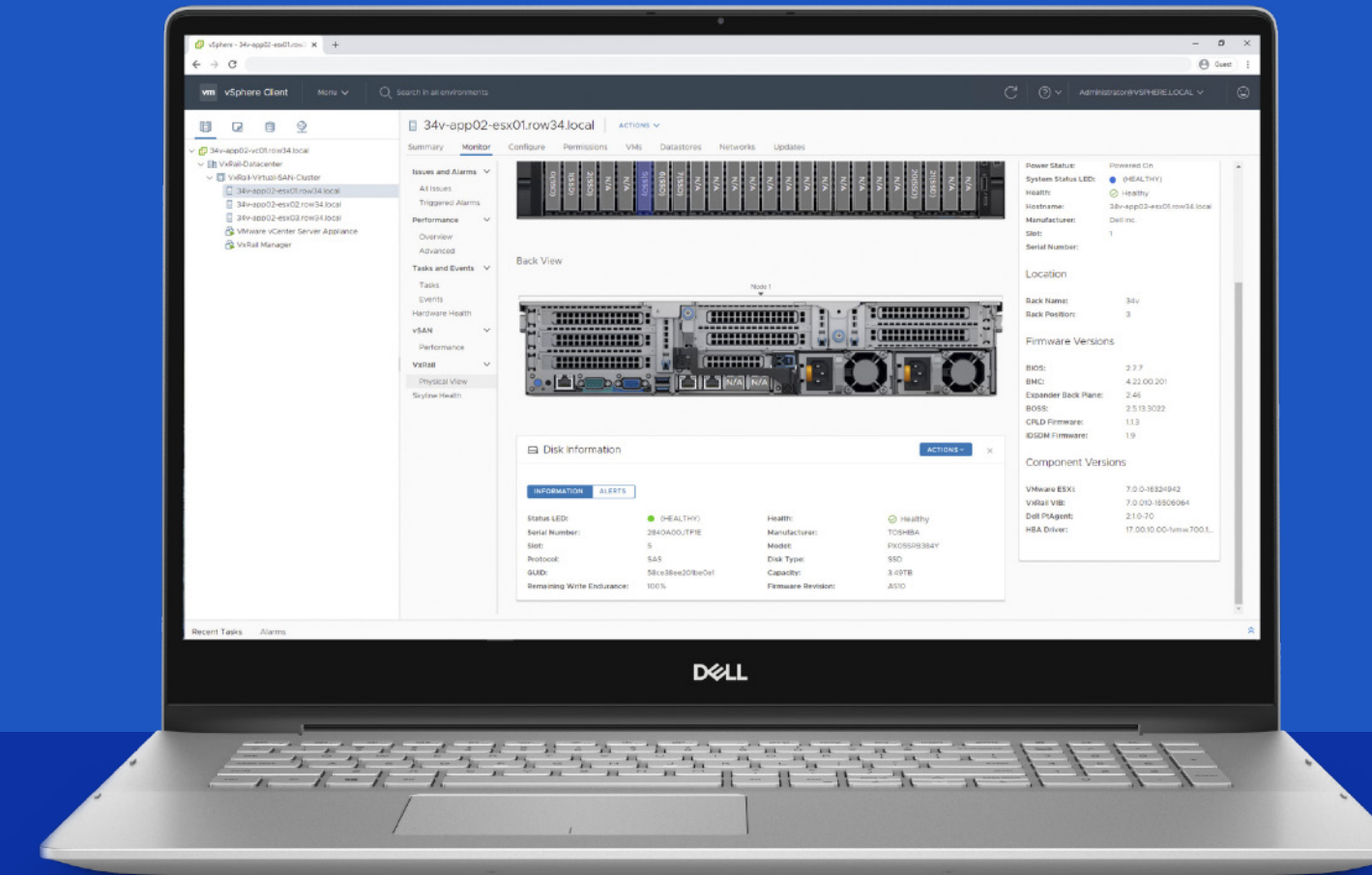
Adding nodes is simple

VxRail Manager features user-friendly workflows for automating VxRail deployment, configuration, and monitoring the health of individual systems in an entire cluster.

Add
new nodes to an existing cluster

Apply
VMware updates or software patches non-disruptively

Replace
failed disk drives without disrupting availability

VxRail Lifecycle Management

Fast, reliable, efficient way to upgrade, update, and patch your VMware HCI infrastructure.

Take a break from the never-ending manual upgrade process. Whether you need to run a significant upgrade or a quick security patch, simply choose the Continuously Validated State for each cluster, and VxRail automatically takes you there.

Empower IT staff
Up to 61% improved efficiency of IT infrastructure team[1]

Decrease downtime
Reduce downtime with up to 68% fewer unplanned outages[2]

Enhance budget efficiency
61% lower total 5-year cost of operations[3]

Bring IT productivity to new heights

VxRail LCM gives you the ability to choose pretested, validated release packages for each cluster. This makes it easy to run non-disruptive upgrades for the entire hardware and software stack, ensuring clusters are in Continuously Validated States.

Regular health checks help you quickly upgrade clusters by making sure they are always ready for unscheduled patches and security updates. You can also seamlessly bypass releases and patches, regardless of the hardware generation or types of nodes in the cluster.

Continuously
Effortlessly streamline firmware and software upgrades with continuous updates and rapid patching.

Validated
Guarantee compatible upgrades through comprehensive lab testing of all hardware and software components.

States
Effortlessly stay compliant with automated monitoring of your cluster configuration.

Take advantage of our labs

VxRail Labs continuously tests, optimizes, analyzes, and sequences all hardware and software components within a single upgrade — for the full stack — reducing risk and minimizing upgrade times.

Single click upgrades deliver a level of simplicity to your experience, providing operational freedom from maintaining your infrastructure.

100+
staff dedicated to testing

$125M+
VxRail lab investments

800k
test hours per release

RESTful API

Greater extensibility for cloud and IT automation

HCI System Software includes APIs that help you to leverage the full power of automation and orchestration services across your data center. This extensibility lets you build, operate, and automate your infrastructure with cloud-like scale and agility.

Streamline integration into your IT environment and processes.

Simple

Thanks to embedded, interactive web-based documentation, PowerShell and Ansible modules, you can consume the API very easily from a familiar command line interface for Windows and VMware vSphere admins or Ansible playbooks.

Extensible

The VxRail API is designed to complement REST APIs from VMware (vSphere Automation API, VMware PowerCLI, VMware Cloud Foundation on Dell VxRail API), offering a familiar look and feel with vast capabilities.

Powerful

Dozens of VxRail API functions give you the power to support essential operations such as automated lifecycle management (LCM).

Bring robust automation to lifecycle management, evolving with a growing suite of API functions.

VxRail LCM upgrades

Day 1 cluster deployment

Day 2 cluster operations, including cluster expansion and health monitoring.

AIOps Cloud-based Management

VxRail uses artificial intelligence (AI) and machine learning (ML) analytics to:
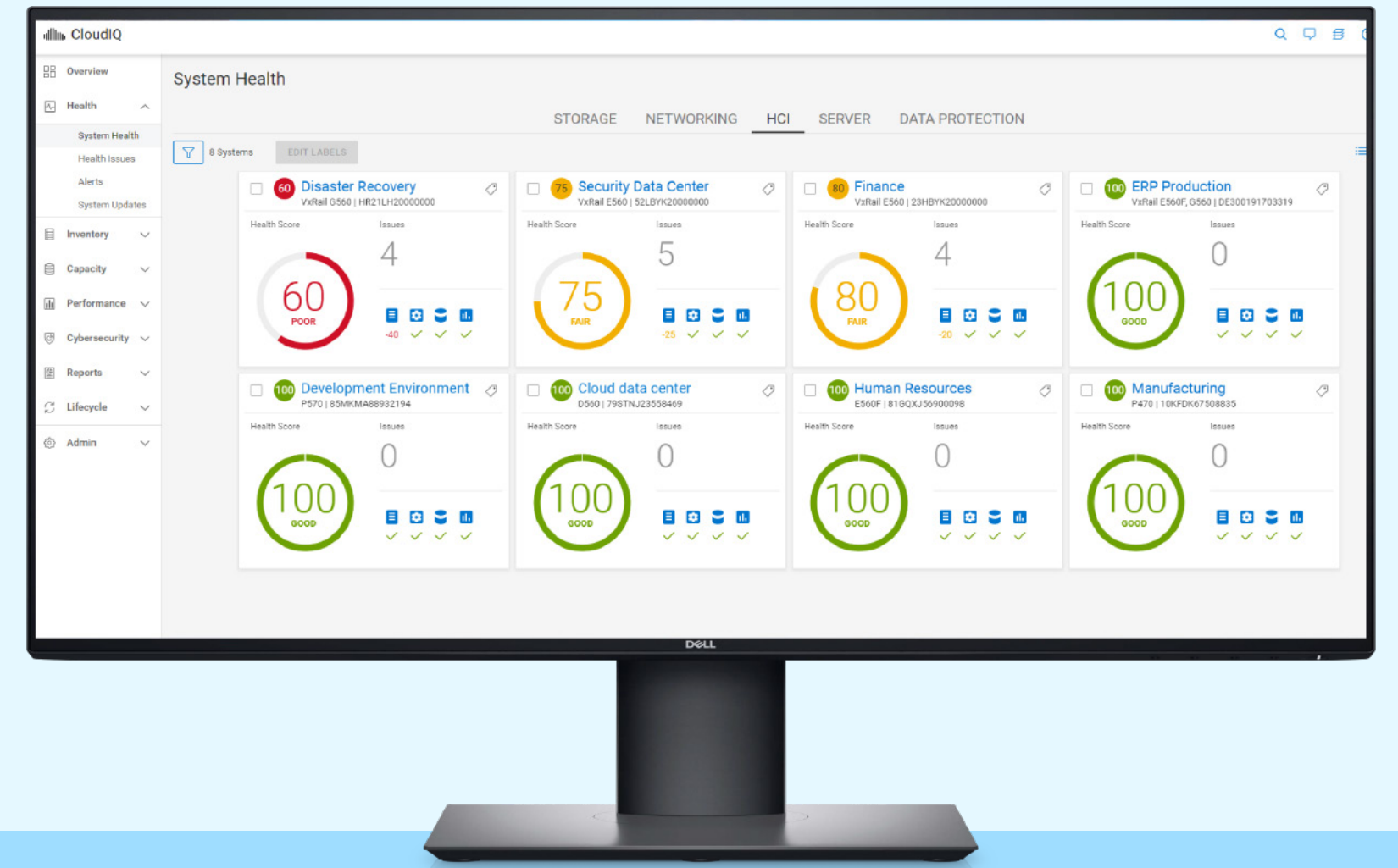
Optimize performance

Automate updates

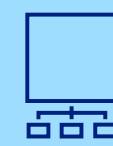**Improve** system availability

Intelligent health checks

Global visualization and simplified health scores provide a convenient way to assess the health of your entire VxRail system.

Pinpoint where you can improve performance, availability, and IT resource planning by identifying and assessing the impact of health issues at the cluster and node levels.

Insightful management

Predictive analytics provides actionable insights making it easy to forecast consumption.

Forecast capacity and streamline management across data centers and edge locations.

Rapidly scale up or out — Provides predictive analytics of resource consumption.

Simplified upgrades with multi-cluster management

Intelligent multi-system updates

Manage and execute updates for multiple VxRail clusters from a central location.

On-demand cluster pre-checks

Determine upgrade readiness by identifying potential issues during the planning phase.

Smart LCM bundles

Reduce long download times for large LCM bundles at remote sites by transferring just the changes in an update, significantly reducing download times.

One Phone Call for Support

Accelerate deployment, increase productivity, reduce downtime and simplify operations with a single point of global support for both hardware and software throughout the entire lifecycle.

Save time, money and headaches with one phone call to address your support needs. In fact, Dell Technologies is able to resolve nearly 98% of your hardware and software issues in-house.[4]

Many of our support technicians are VMware certified; and for issues that can't be resolved in-house, we have a direct line into VMware support teams to escalate your issue.

Learn more about Dell Technologies Services for VxRail ›

3,670+
VMware-certified Dell support professionals

>96%
customer satisfaction rating[6]

>96%
VMware cases resolved in-house[5]

6,620+
combined VMware certifications

Discover what's possible

Learn more about the advantages of VxRail by contacting your sales representative or visiting us at Dell.com/VxRail and Dell.com/VCF-on-VxRail.

VxRail HCI System Software