

How to Maximize Efficiencies with VMware vSphere Foundation

Discover five ways to get the
most out of your infrastructure

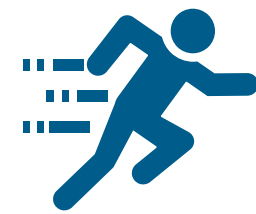
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Introduction

With the volume of workloads skyrocketing across both public and private clouds, IT environments are becoming increasingly siloed. The complexity of managing today’s fractured and heterogeneous environments can drive up costs, reduce productivity, increase security risks, and stifle innovation.

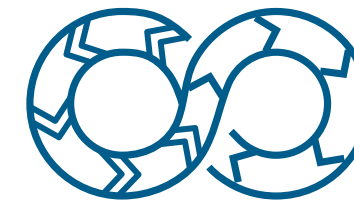
Thankfully, VMware vSphere® Foundation (VVF), the enterprise workload engine for traditional and next-gen apps, can help you overcome modern IT complexity and realize these powerful benefits:



Boost operational efficiency
with intelligent operations management
and analytics.



Supercharge workload performance
via hardware accelerators and
performance continuous optimization.



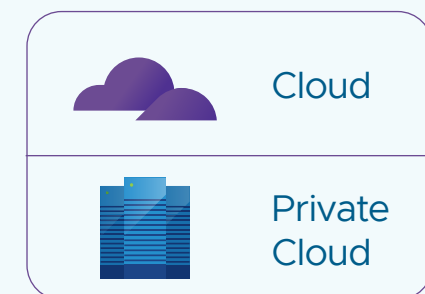
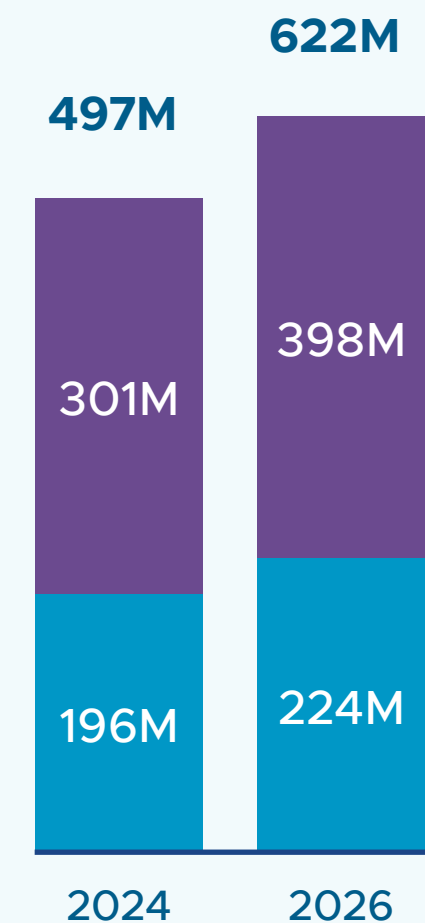
Accelerate innovation
with integrated Kubernetes
and self-service capabilities.



Elevate security for workloads
through built-in security features.

This ebook will focus on the operational efficiency benefits of VVF. In the following pages, we’ll take a look at five ways VVF helps you get the absolute most out of your IT infrastructure.

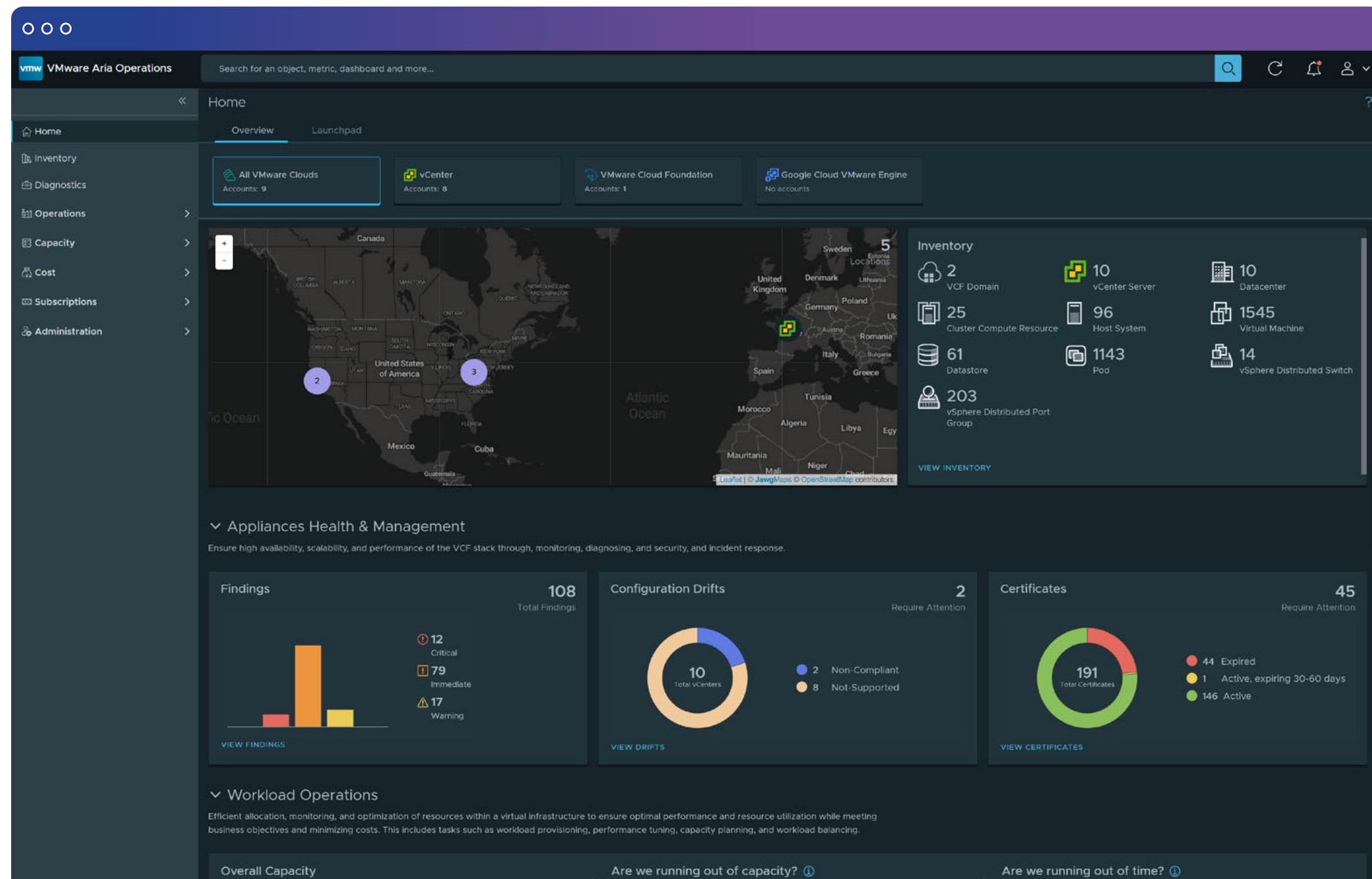
More workloads, more complexity.



Morgan Stanley Research.
2023.

1. A unified console experience

Using different consoles to manage different aspects of your app and infrastructure operations adds layers of complexity, hindering productivity for your IT teams. Enter VVF. With a single control plane for global inventory, configuration management, lifecycle management, and certificate management across all VVF components, the enterprise workload engine dramatically simplifies management of your operations, increasing efficiencies and slashing costs.



Benefits

- ✓ Seamless lifecycle management
- ✓ Holistic view of global inventory
- ✓ Unified licensing
- ✓ Centralized certificate management

Figure 1: VVF provides a simple, unified view of your operations, reducing complexity and enhancing efficiency.

2. Enhanced lifecycle management

VVF provides a variety of features to help drastically reduce IT maintenance windows, enabling you to further improve IT efficiencies and keep your organization humming along.

- ✔ **Achieve faster updates** without rebooting and VM evacuation via VMware ESX Live Patching. This feature enables you to perform non-disruptive patches, deliver critical fixes within required SLAs, and enhance system reliability with seamless lifecycle integration.
- ✔ **Upgrade VMware vCenter® instances with minimal disruption** and easily roll back updates if necessary. Using a migration-based approach enables you to get the latest vCenter features and security patches fast, and the only downtime you'll experience is during switchover.
- ✔ **Efficiently reduce maintenance windows** using vSphere lifecycle management enhancements. With the ability to remediate multiple ESX hosts in parallel and achieve seamless DPU lifecycle integration, you can get back to normal operations in no time.

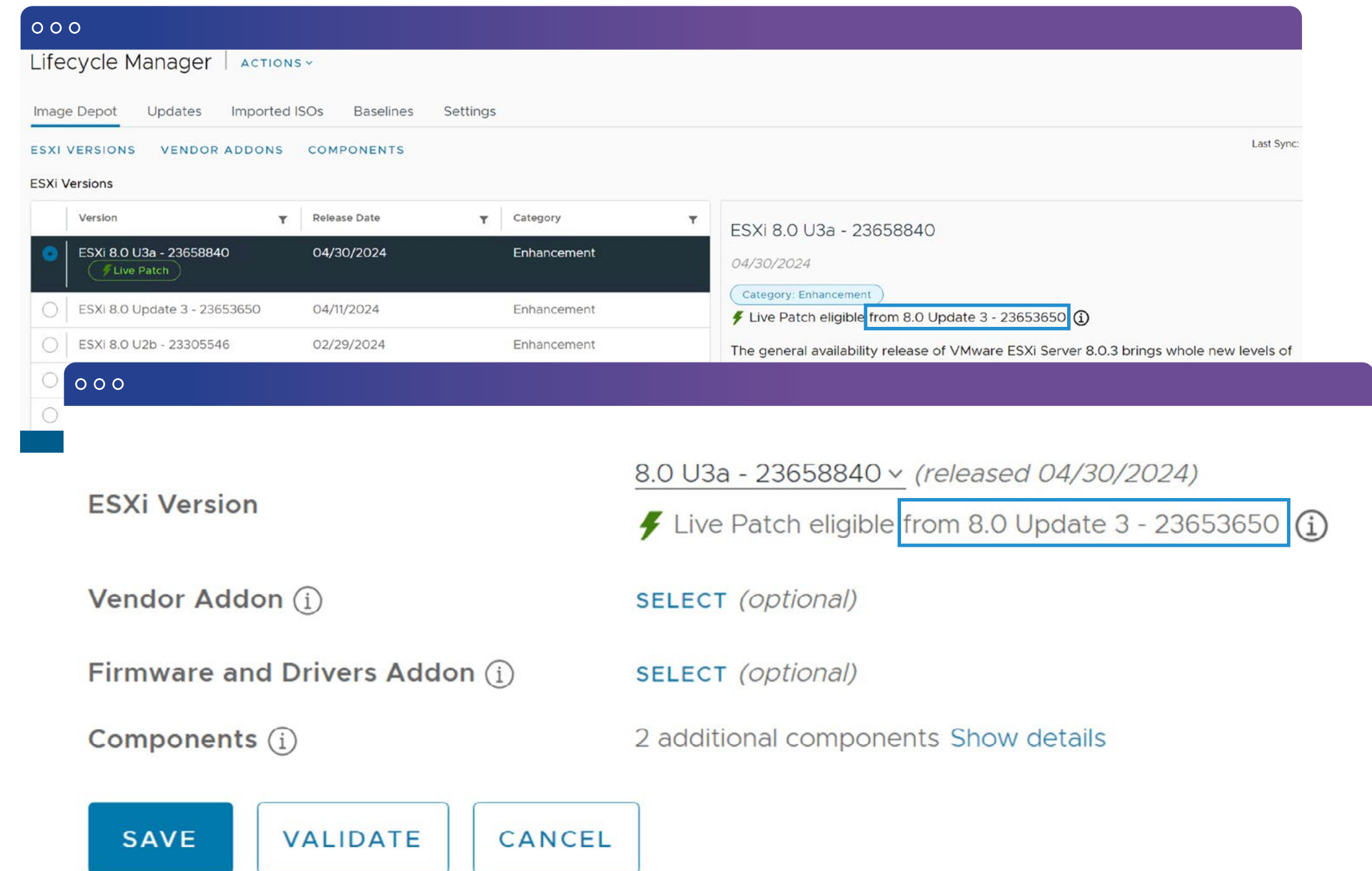


Figure 2: VMware ESX Live Patching enables you to perform updates with zero disruption.



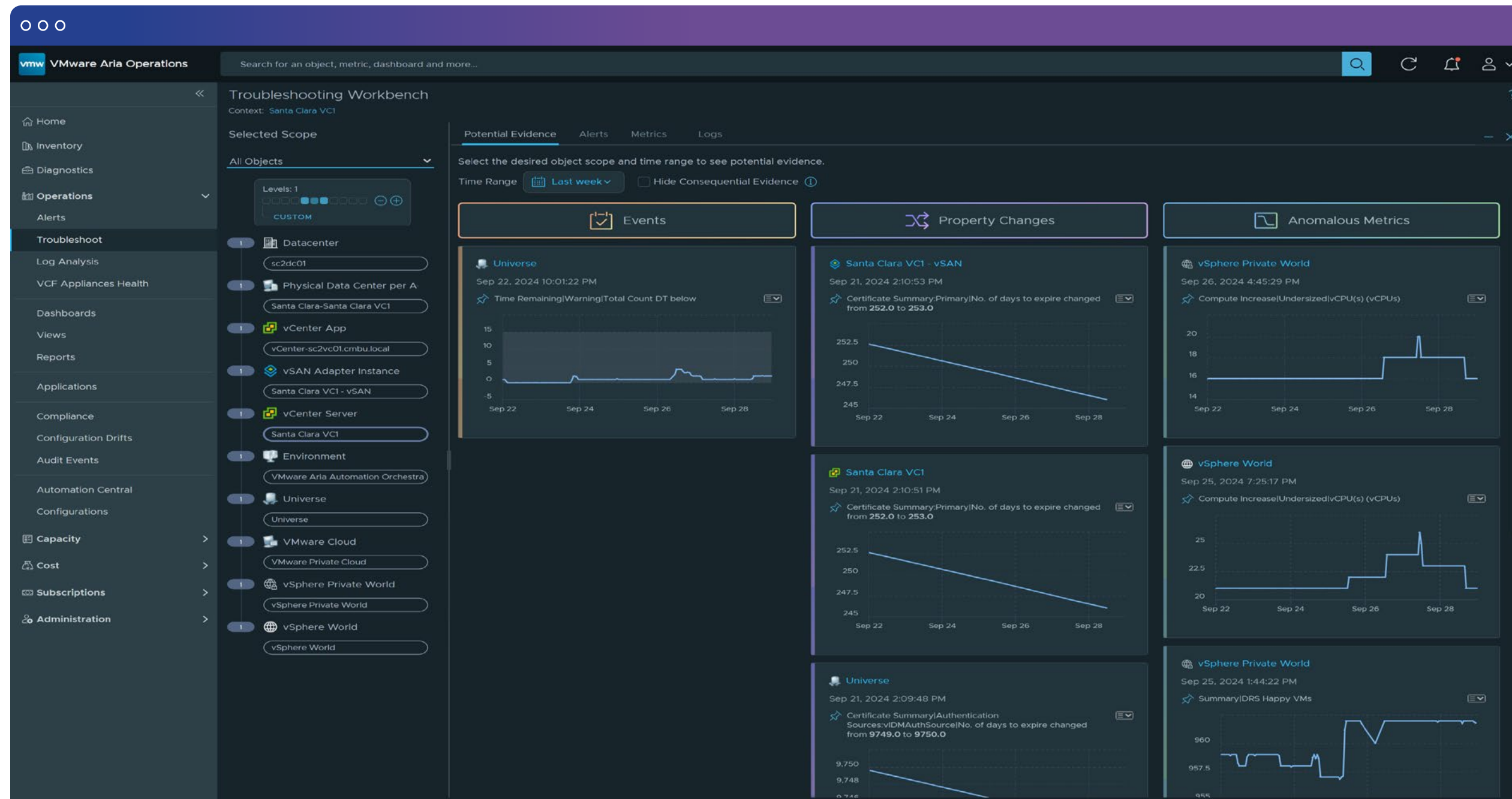
VVF can help deliver a **5X reduction** in relative downtime¹.

¹ Forrester Research, Inc. "The Total Economic Impact™ Of VMware Cloud Foundation Operations." April 2024.

3. Advanced troubleshooting

Issues happen. Resolving them as quickly as possible is critical to keeping your organization moving forward at full speed.

This is where VVF can make all the difference. With AI-driven proactive troubleshooting and streamlined remediation, the enterprise workload engine can help you resolve issues faster to improve performance while lowering costs. In fact, VVF can provide a **20 percent reduction in issue resolution time**².



Benefits

- ✓ Resolve issues faster
- ✓ Meet your SLAs
- ✓ Reduce costly downtime

Figure 3: The VVF Troubleshooting Workbench helps dramatically streamline issue remediation.

² Forrester Research, Inc. "The Total Economic Impact™ Of VMware Cloud Foundation Operations." April 2024.

4. Capacity optimization and planning

With advanced features to optimize consolidation, planning, and procurement, VVF helps you to maximize resource utilization while minimizing cost.

- ✓ **Assess capacity and address shortfalls** with real-time, AI-driven predictive capacity projections.
- ✓ **Reclaim capacity and automate cost savings** by identifying unused resources such as powered-off and idle VMs.
- ✓ **Improve infrastructure and workload planning** by defining scenarios with custom metrics to determine if resources can support current and future workloads.

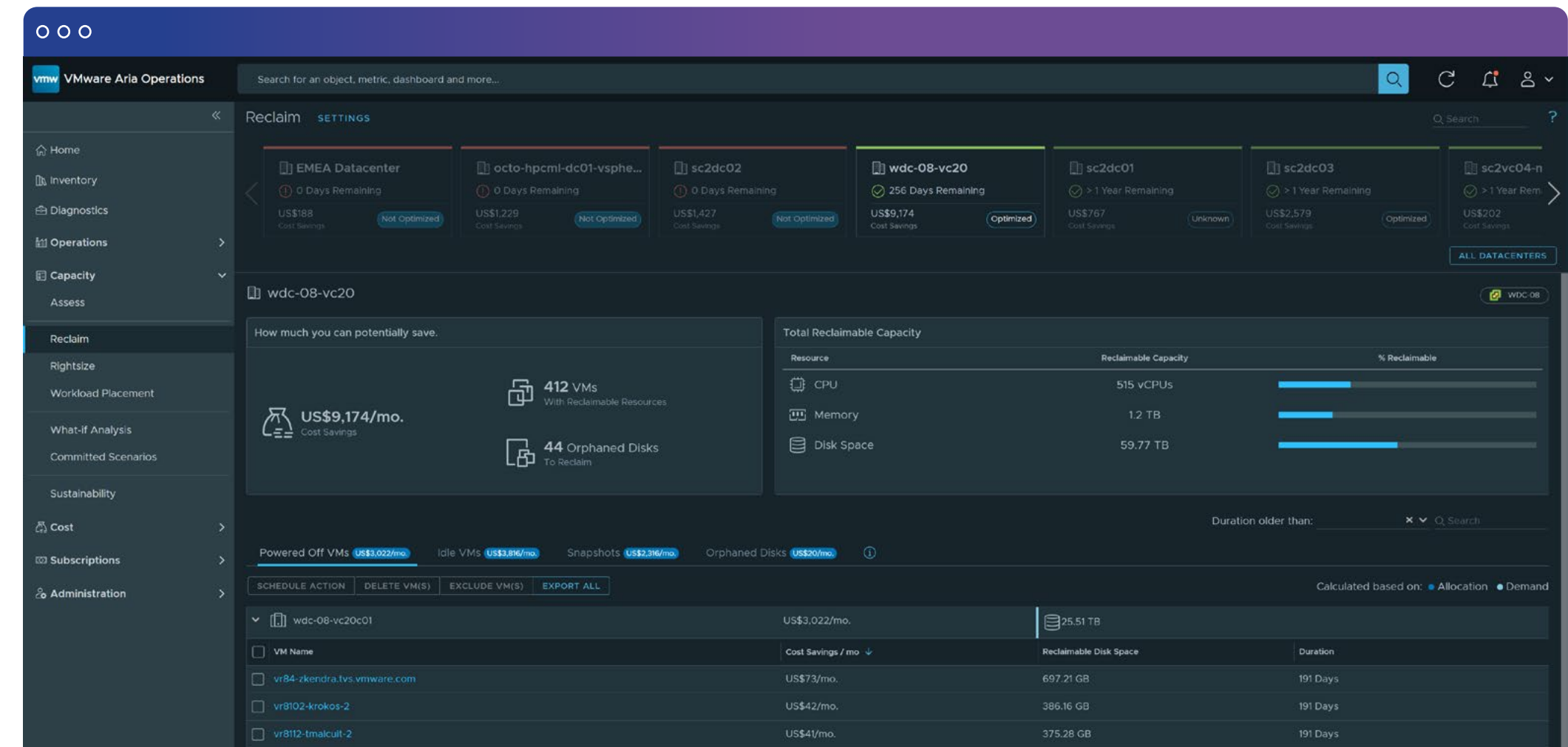


Figure 4: VVF makes it simple to reclaim capacity and achieve cost savings.

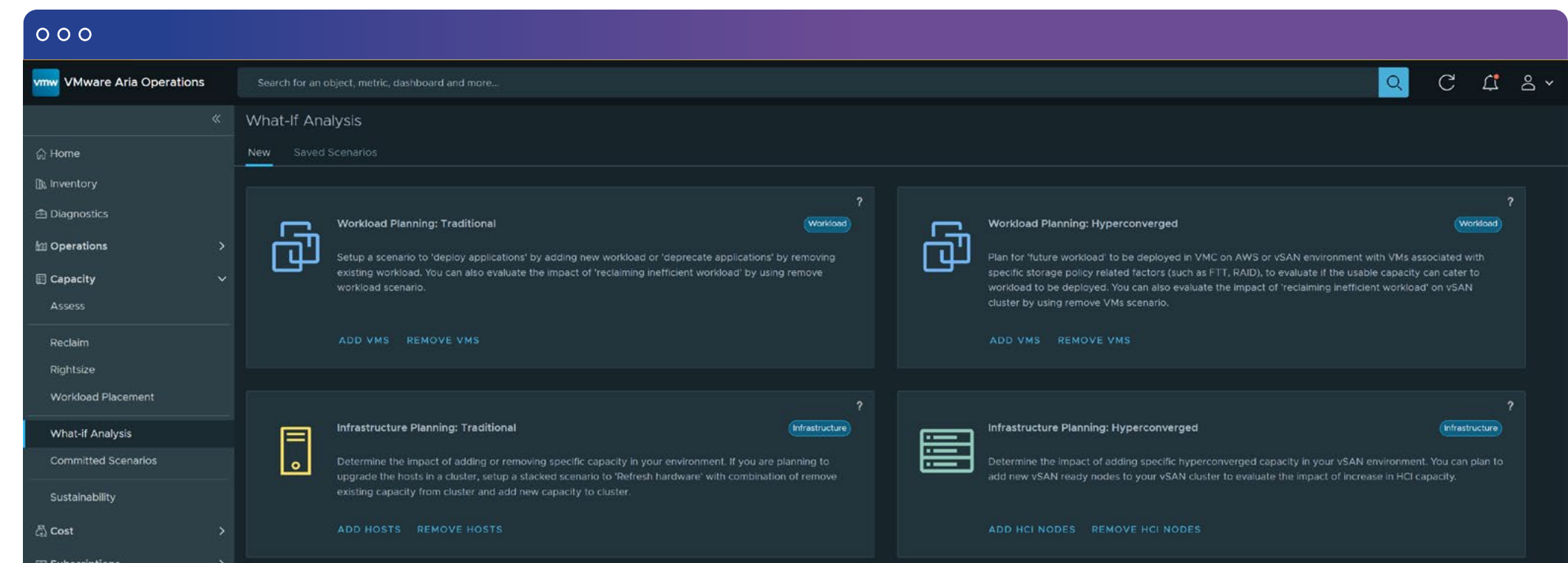


Figure 5: The What-If Analysis feature of VVF can help determine if your current resources can support future workloads.

Forrester Research, Inc. "The Total Economic Impact™ Of VMware Cloud Foundation Operations." April 2024.

5. Cost management

It's always been easier to spend money than to track it—until now. VVF provides a holistic view of TCO by mapping individual LOBs to resources and costs, enabling you to make more informed business decisions and optimize spending. Here are some features included with VVF.

- ✔ **Out-of-the-box show-back and charge-back dashboards**
- ✔ **Monthly cost analyses**
- ✔ **Cost metrics for all available business applications**

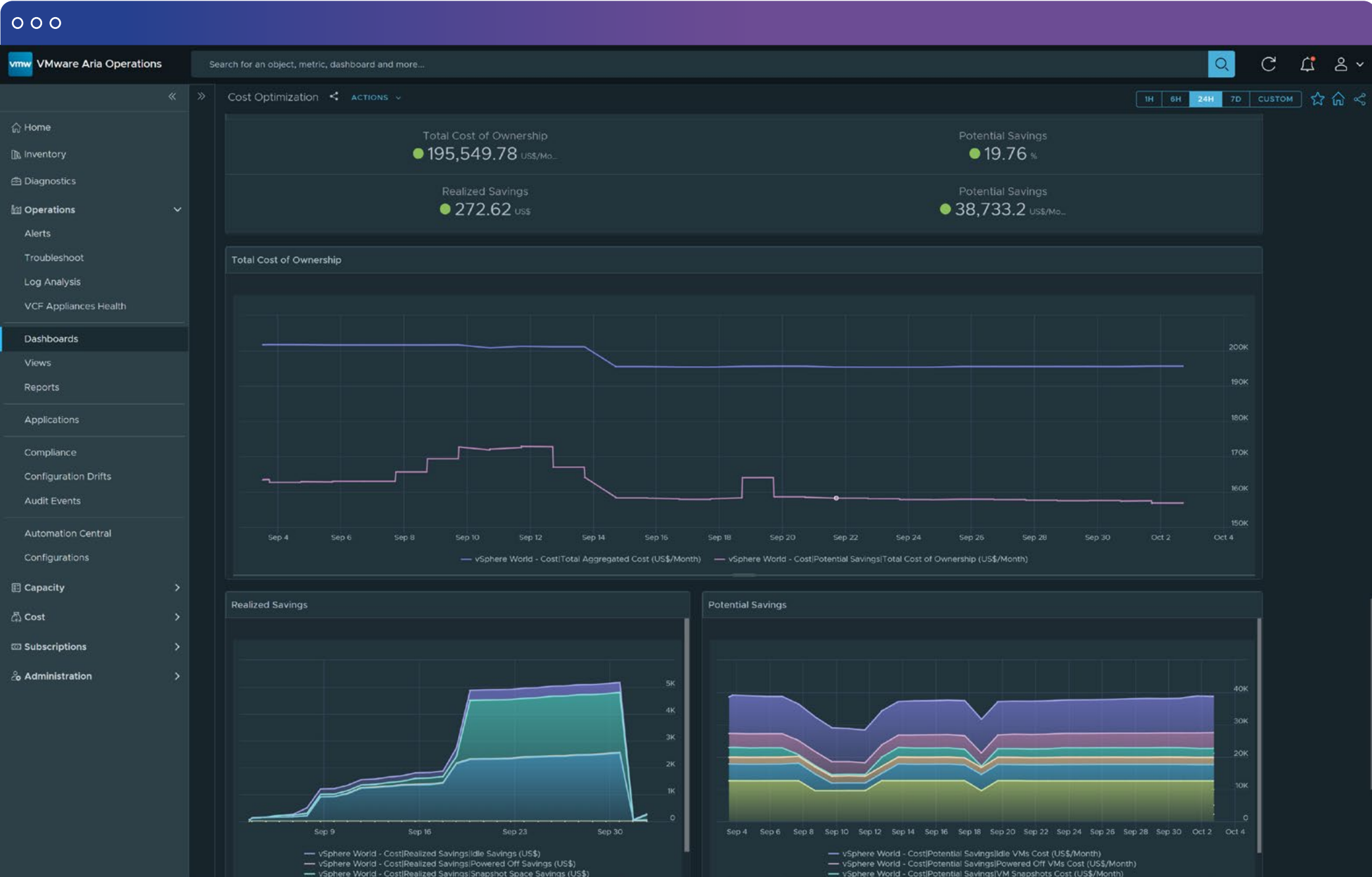


Figure 6: The Cost Optimization dashboard makes it easy to identify and realize potential savings.

Efficiency is just the beginning

VVF doesn't just help you boost operational efficiency, enhance productivity, cut costs, and get the most out of your resources. It also helps you accelerate innovation for Platform Engineering teams, supercharge workload performance, and elevate security. Power your organization forward with the enterprise workload engine and stay ahead of the competition. To learn more please visit vsphere-foundation.com

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