

SOLUTION BRIEF

Optimizing Virtualized Infrastructure with Pure1

Cut costs and enhance performance with the Pure1® Virtualization Assessment.

Navigating disruptions in the server virtualization market has intensified pressure on IT departments. The challenge of meeting modern workload demands amid increasing expenses strains budgets already stretched thin. By streamlining and right-sizing current virtualization resources, businesses can build a flexible foundation that opens up future possibilities without unnecessary costs. So, how can your organization optimize your current VMware environment to reduce costs, enhance performance, and strategically prepare for the future?

Introducing the Pure1 Virtualization Assessment

The Pure Storage® Pure1 Virtualization Assessment is a powerful tool designed to provide deep, actionable insights into your VMware environment. Leveraging advanced telemetry data and analytics, this assessment delivers a comprehensive view across vCenters and clusters down to individual VMs. By equipping you with this critical information, Pure1 helps you optimize licensing costs, streamline operations, and modernize your VMware strategy in alignment with your business priorities.

Right-size Your Licensing Costs

With licensing expenses consuming a significant portion of your budget, maximizing utilization becomes mission critical for IT. The Virtualization Assessment helps you right-size licensing costs by providing comprehensive insights into your VMware environment. By analyzing compute utilization across clusters, hosts, and VMs, the assessment identifies underused resources—such as hosts or VMs that consistently run at low utilization levels. For example, if a cluster has several hosts running below 15% utilization, Pure1 may recommend consolidating workloads onto fewer hosts. This reduction directly translates to lower costs, as VMware licenses are based on the number of cores.

The Virtualization Assessment also includes a cost calculator that models potential savings. By inputting your specific license parameters—like bundle type, commitment period, and cost per core—you can see estimated annual licensing costs and the potential savings after recommended actions are taken. By right-sizing your environment, you not only reduce expenses but also free up budget for other critical initiatives. This improves your total cost of ownership and saves on your bottom line.



Cost Optimization

Identify underutilized resources to reduce licensing costs and free up budget.



Capacity Planning

Monitor utilization trends to proactively manage resources and plan for future growth.



Performance Tuning

Detect and resolve performance bottlenecks to enhance system efficiency and reliability.

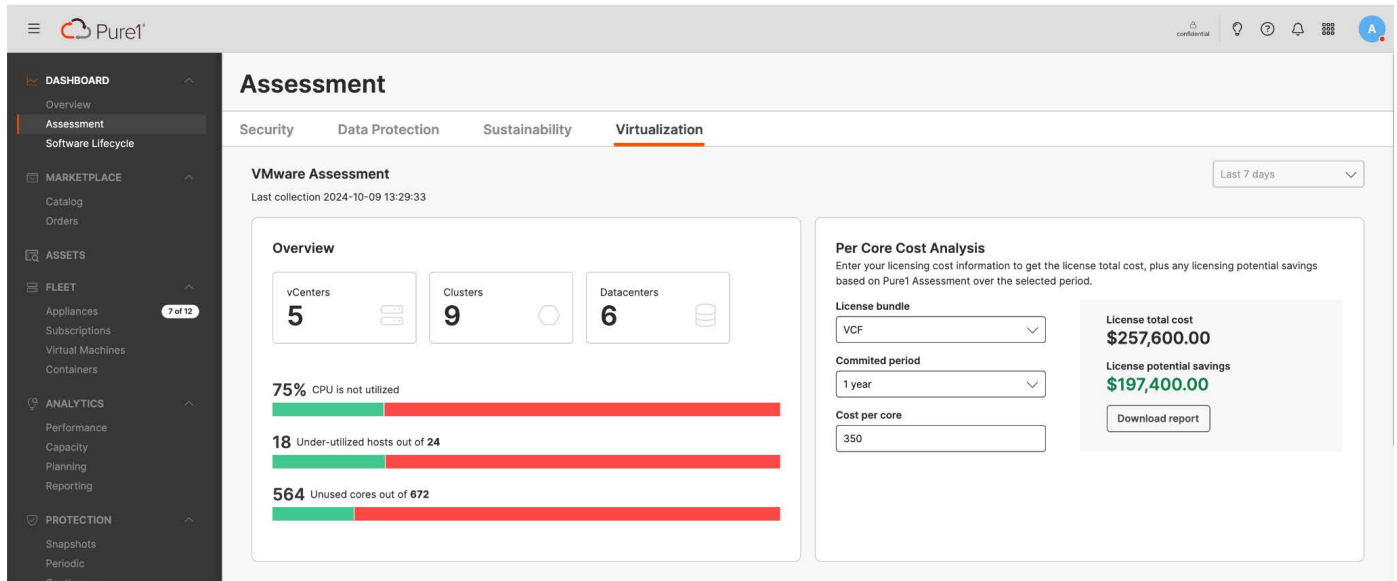


FIGURE 1 Pure1 Virtualization Assessment overview and cost savings

Capacity Planning for Future Growth

Effective capacity planning is crucial for meeting current demands and anticipating future needs. The virtualization assessment offers detailed data on resource utilization, including CPU, memory, and storage and monitors those trends over time to help identify historical patterns. For example, the assessment can highlight a VMFS datastore nearing 90% utilization or identify week-over-week growth trends. Armed with this information, you can take proactive measures before capacity becomes a critical issue.

By understanding these patterns, you can make more informed decisions about scaling, consolidating, or reallocating resources, ensuring infrastructure remains efficient and adaptive to evolving business needs without unnecessary expenditure. Anticipating and planning for future capacity requirements reduces the risk of performance issues and supports a seamless operational experience.

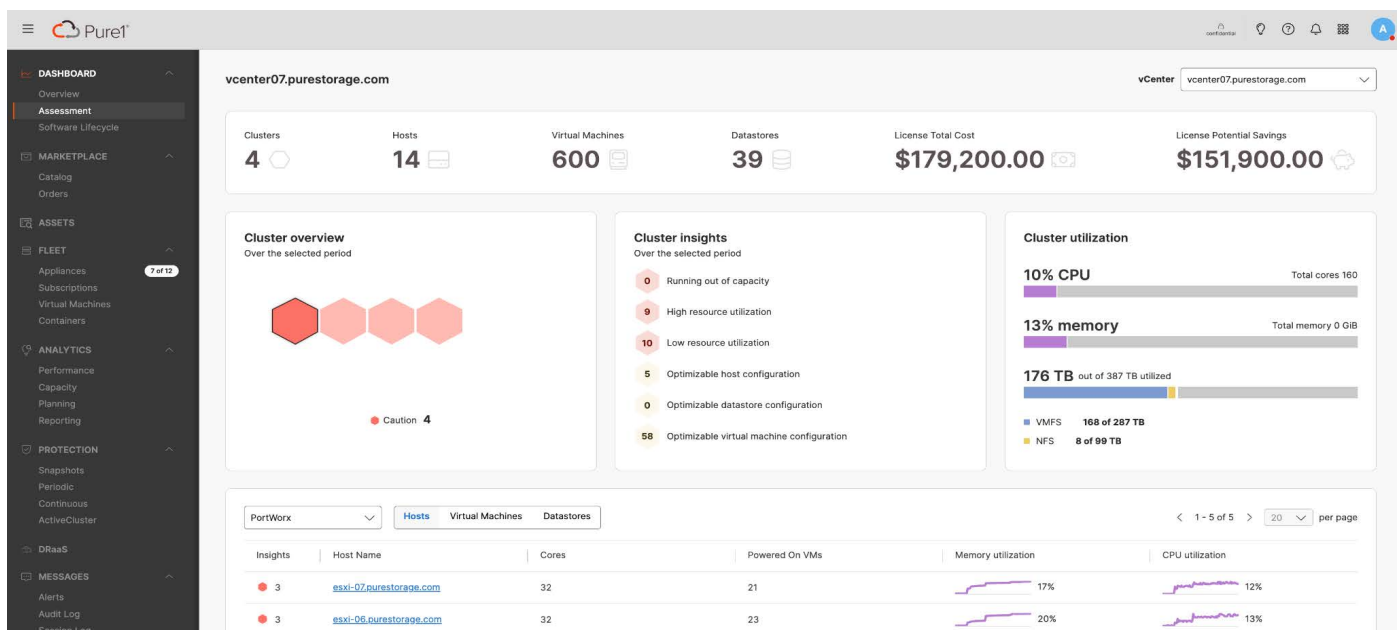


FIGURE 2 Cluster utilization in the virtualization assessment.



Enhancing System Performance and Reliability

Maintaining optimal performance in your VMware environment is essential for supporting business-critical applications and workloads. The Pure1 Virtualization Assessment enables you to fine-tune systems using detailed insights and recommendations. By analyzing compute and storage metrics, it identifies performance bottlenecks like CPU contention or storage congestion. For example, if a VM consistently experiences high CPU utilization or latency issues, the assessment highlights these areas for attention. By proactively detecting performance issues and offering actionable insights, you can mitigate potential problems before they impact operations, ensuring reliability and efficiency.

Taking the Next Step

The Pure1 Virtualization Assessment is more than just a tool: it's your strategic ally in navigating the complexities of modern virtualization. Using the assessment, you can reduce costs, streamline operations, enhance performance, and refine your virtualization strategy for the future. Generate custom reports directly from the assessment to engage stakeholders and build consensus around key modernization efforts.

To start optimizing your VMware environment, ensure your organization has the [VM Analytics](#) Collector [deployed](#) and [configured](#). If you need assistance, please contact your Pure Storage representative. Log in to [Pure1](#) today to take the first step toward transforming your virtual infrastructure.

Additional Resources

- Not sure what to do about VMware? Read [A Buyer's Guide to Modern Virtualization](#).
- Ready to take the assessment? [Log in to Pure1](#)