



Solution Brief

NetApp HCI for VDI with Citrix Virtual Apps and Desktops and NVIDIA GPUs

NetApp HCI: Scalable, VDI-Ready, and Simple



Unmatched Scalability

Independent scaling and QoS that maximize resource and capacity utilization, significantly lowering TCO



VDI-Ready

Certified for 3,200 VDI users, IOMark-VDI standard storage workloads (Evaluator Group 2019)



Radical Simplicity

92% less administrative time with non-disruptive scaling and no downtime

Figure 1) NetApp HCI

Organizations like yours have seen firsthand the benefits of virtual desktop infrastructure (VDI). These benefits include rapid deployment to meet more demanding SLAs and to improve data protection. With the centralized computing of VDI, your users have global access from anywhere, at any time, on any device.

When the first wave of VDI was implemented, the frequently deployed applications were light and made minimal demands on CPU. These demands from the first wave of VDI deployment centered on maintaining the client environment and applications individually, protecting data on the device and enabling access from other locations. The virtualization of applications and the smaller compute footprint of VDI delivered the added benefits of security, accessibility, flexibility, and manageability for your data center.

The first generation of VDI did an excellent job of granting task users access from multiple locations while simultaneously protecting sensitive data. Now we are fully in the next generation of VDI, and the demands on VDI functionality are different because of the larger application demands from power users. The demand for higher visual quality of graphics and for higher performance and the expansion to virtual workstations mean that the days of light VDI applications are gone.

3D graphics and resource-intensive applications are becoming more relevant for verticals such as healthcare, oil and gas exploration, film and media, and automotive, which is driving the rapid adoption of VDI technology. Data protection and storage management requirements remain paramount, but it's clear that the next generation of VDI also needs to include the element of graphics in addition to compute, network, and storage. Beyond simply adding a graphics component, the next generation of VDI requires graphics capabilities that are dynamic. Some organizations have high graphics usage, and others don't. Therefore, the demand is great for a flexible storage solution that can meet the needs of various enterprise users and various VDI applications.

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Figure 2) Provide the VDI experience your users expect with NetApp HCI, Citrix, and NVIDIA

NetApp HCI is a hybrid cloud infrastructure that has a scalable architecture to meet the growing VDI demands in three ways. First is the use of NVIDIA GPUs to meet the demands of your high-performance applications and the growing need for graphics-intensive workloads. Second, NetApp Element® software gives you the quality of service (QoS) that you need to tailor resources to your applications so that you can deliver the expected user experience. Element software QoS can bring all your VDI workloads under an elastic architecture so that boot storms don't affect other applications or your users' experience. Third, with NetApp HCI, you can start with what you need today to help you manage costs and your data center footprint. NetApp HCI has disaggregated CPU from storage, so your enterprise can grow in whichever way you want.

VDI Solutions on NetApp HCI

To meet the demands of your varying users, NetApp HCI integrates with NVIDIA GPUs and Citrix Virtual Apps and Desktops to create VDI solutions for task workers, knowledge workers, and 3D graphics power users. End users can fall anywhere on the spectrum between task user and power user. These validated solutions give you confidence that no matter what type of user, no one will notice a dip in the performance of their desktops.

NetApp supported technical reports and verified architectures explain in detail how to orchestrate workloads that improve end-user satisfaction.

To get started, download the deployment guide: [NetApp HCI for Virtual Desktop Infrastructure with Citrix Virtual Apps and Desktops](#).

Learn more about [NetApp HCI](#) or get more information about other [NetApp VDI solutions](#).

About NetApp

NetApp is the data authority for hybrid cloud. We provide a full range of hybrid cloud data services that simplify management of applications and data across cloud and on-premises environments to accelerate digital transformation. Together with our partners, we empower global organizations to unleash the full potential of their data to expand customer touchpoints, foster greater innovation and optimize their operations. For more information, visit www.netapp.com.