

HPE GreenLake for VDI

The VDI cloud service that's under your control



The workplace, as we know it, has been quickly and irrevocably changed

Organizations with a heavy reliance on physical interactions are being left behind by those who have the flexibility to interact digitally. They must reinvent the workplace and adapt their strategy around a persistent move to remote work and need a way to enable and secure a distributed workforce. To ensure high levels of productivity and business continuity, organizations must support remote workers with high availability, no downtime, and constant access to necessary applications and data.

Virtual Desktop Infrastructure (VDI) is the technical enabler to support such workplace transformation. Desktops and applications are hosted in a remote server instead of laptops and can be accessed by users at any time, from anywhere, and through any device, on demand. This ease of access must not introduce risk from untrusted devices and must maintain business continuity and compliance. IT must be able to prevent users from downloading sensitive data or uploading unauthorized software. Virtual desktops eliminate the risk of data loss if the endpoint is lost or stolen. Data is streamed over an encrypted connection and never cached on the device. With VDI, IT can control access to external storage devices to prevent users from downloading sensitive data or uploading unauthorized software.

VDI implementation models

A VDI solution can be built in-house and on-premises, thus ensuring security, compliance, and performance, but it requires huge investments, is challenging to manage and scale, and pulls IT resources out of the core business. Or a public cloud offer may be adopted, which avoids huge investments, provides access to a rich set of VDI options, and ensures burst and quick scaling. But this may not be a viable option for many organizations, due to egress cost, latency issues when the corporate data center is to be linked, security and compliance, and performance of graphics-intensive or heavy data query applications.

Hewlett Packard Enterprise has the right offer that combines the benefits and overcomes the issues of the two options described earlier: HPE GreenLake for VDI.

HPE GreenLake for VDI

HPE GreenLake for VDI is the answer to those who want to get the benefits of the cloud model but are reluctant to move data outside of the data center because of concerns about data sovereignty, privacy, security, performance, and egress costs. HPE GreenLake for VDI is an as-a-service solution that delivers the security, performance, and compliance benefits of an on-premises VDI solution with the simplicity and flexibility of the cloud. HPE supports, operates, and manages the platform to deliver strong performance and reliability while you retain full control of the crucial desktop and application environment unless you want to delegate it to HPE.

HPE GreenLake for VDI offers organizations with on-site, remote, or mobile workers a unique, secure, as-a-service option to keep their workloads on-premises, scale simply, and pay-per-use, per-month while helping ensure the organization stays compliant.



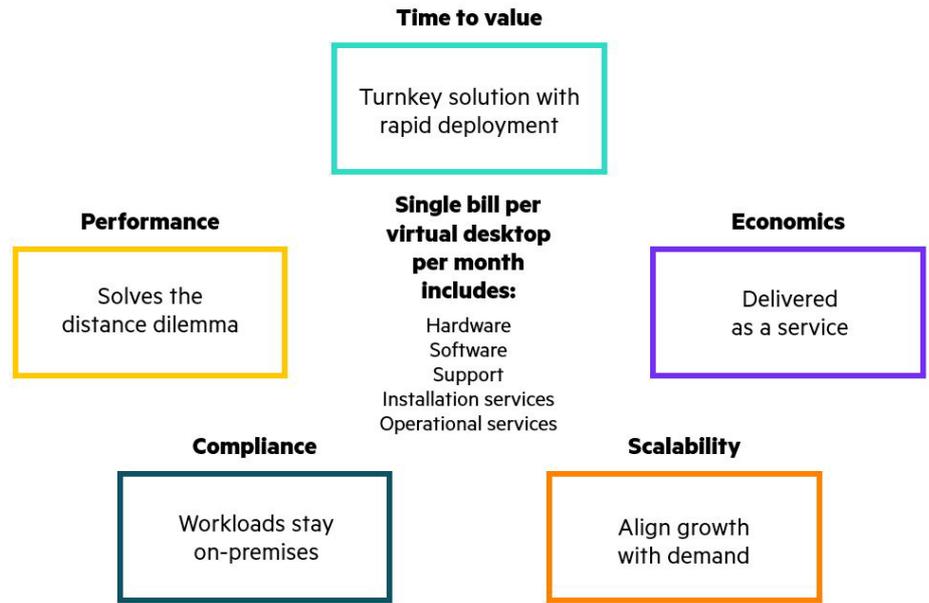


Figure 1. The six HPE GreenLake for VDI advantages

A closer look at HPE GreenLake for VDI

HPE GreenLake for VDI offers virtual desktop configurations tailored for different user workloads—from task workers using shared resources to power users needing dedicated nodes of CPU and GPU compute and memory.

The HPE GreenLake for VDI solution consists of the following elements, under a single contract, single invoice, and with HPE as the single point of contact, paid monthly on a pay-per-use basis:

- The hardware platform optimized for your specific blend of user profiles and configured and installed by HPE at your premises or in colocation for your full control and reduced latency and remotely managed by HPE
- The desktop virtualization software of your choice, among the market leaders: Citrix Virtual Apps and Desktops/Citrix DaaS and VMware Horizon®
- Graphic acceleration, powered by NVIDIA®, if needed
- The blend of VDI-tailored advisory, operational support, and management services of your choice

HPE has defined a set of services specifically tailored to the VDI use case. Some of them are required to help ensure solution consistency; others are optional to give you the freedom to decide which services can be delegated to HPE vs. the ones you want to implement directly or through your third-party providers.





Figure 2. HPE GreenLake for VDI services

Assess and plan

HPE offers a VDI immersive workshop to help you in the setup of their VDI strategy. It is an assessment of your existing physical and virtual environment in the context of identifying the best possible recommendations for a VDI solution. Key deliverables are an assessment of:

- Current operating model and use case
- Current app and image lifecycle management
- Current architecture and performance
- Recommendations

Design, install, and configure

This service includes design, installation, and configuration at your premise (or at a colocation) of the HPE GreenLake for VDI solution. As part of the service, the Citrix or VMware Horizon VDI control plane will be set up and HPE will support you in the build of the first golden images (one per user profile) so that your new VDI environment will be quickly productive.

A key task is to identify your specific mix of user profiles, around which the whole architecture will be built. Each user profile requires different service levels and performance. By building the architecture based on the assessment of the different user profiles, HPE helps ensure that the HPE GreenLake for VDI solution engineered for your specific user profile mix delivers the performance needed at the right cost. User profiles analyzed include the following:

- Task users, who typically use a small number of low compute-intensity applications
- Knowledge workers, who predominantly use office productivity applications and browsing
- Power users, who need more intensive use of office applications, have mid-level graphics requirements or development platforms. These users get VDI with higher processing power that can be NVIDIA GPU assisted and delivered in a persistent or non-persistent model
- Engineering professionals, who need intensive graphic requirements for CAD-type applications or financial multiscreen. They benefit from NVIDIA GPU-assisted compute

See the [HPE VDI Startup service data sheet](#) for further details.

Manage

The HPE GreenLake for VDI solution lets you decide the level of engagement of your IT in the support, operational, and administrative tasks of the VDI solution. The HPE engagement can span from a basic service up to a fully managed solution, which allows you to free up resources from managing the VDI infrastructure and have them work on more strategic projects.

Support, operational, and administrative activities are designed to be delivered remotely. However, to meet certain operational requirements, some activities may be provided by HPE resources located on-site within your premises.

See the [HPE Pointnext Complete Care brochure](#) for further details.





HPE GreenLake for VDI customer experience

HPE GreenLake for VDI customers get access to the outstanding service support provided by HPE, delivered through an effective support organization and a well-structured governance process, continually improved in several years of experience with customers.

Effective support organization

An account team is assigned to every HPE GreenLake for VDI customer, to support the overall services being provided. This team acts as your advocate and single point of contact for both operational and technical needs, coordinating the delivery of all features of HPE Pointnext Complete Care; includes Account Support Manager (ASM), Technical Account Manager (TAM), and Assigned Customer Engineer (ACE).

Well-structured governance process

Integral to making the service experience successful is a well-structured governance process, bringing together planned and unplanned activities and making sure the service is performing as planned. The governance structure that HPE builds for every HPE GreenLake for VDI customer includes the following elements (may change on a deal-by-deal basis):

- Operational service plan
- Account support plan
- Operational service meeting
- Service planning and review
- ITSM reporting
- System operations and administration reporting

Get full control over your HPE GreenLake for VDI service through the HPE GreenLake platform

The HPE GreenLake platform is the one place where your HPE GreenLake experience comes together. Included as part of your HPE GreenLake services, the platform delivers the right insights and capabilities for CIOs/CFOs, IT professionals, Line of Business owners, DevOps, and HPE partners. The platform is where you will:

- Manage compute, storage, and networking devices, saving time with intent-based provisioning and automated onboarding
- Manage workloads, with self-service access for end users to provision virtual, containerized, and bare metal resources
- Automate routine tasks using a consistent set of APIs and CLIs, freeing your staff for more valuable work
- Make business decisions, with powerful analytics on your usage, capacity, and cost including showback





Why HPE GreenLake for VDI?

- **HPE leadership on VDI**—HPE has deep experience in VDI with the widest range of architectural options to meet complex VDI needs. HPE offers a best-of-breed ecosystem with options to meet your requirements for Citrix, VMware®, and NVIDIA. According to the [IDC MarketScape Worldwide Digital Workspace Services 2020](#), HPE is a leader in digital workspace services.
- **Comprehensive support from a support services leader¹**—HPE helps you comprehensively run your environment, add workloads, and simplify operations with skilled resources with the ability to choose as rich a support experience as desired.
- **Cloud model with the benefits of on-premises**—HPE GreenLake for VDI is the answer to your need for a cloud financial model with the benefits of the on-premises. You get the necessary VDI software, hardware, and operational and support services deployed in your data center or colocation and receive a monthly bill based on usage.
- **Single vendor for the entire solution**—One contract, one invoice, single point of contact for the entire solution.
- **Cloud-like flexibility**—HPE GreenLake for VDI has cloud-like flexibility to scale, aligning growth with demand through a pay-per-use consumption model while meeting on-premises security and performance and compliance regulations.
- **Higher levels of customization**—Our fully managed and supported VDI environment enables organizations to customize scaling and spinning up desktops, persistent desktop options, capacity planning and utilization for cost control, and solutions to help ensure mobile worker productivity.
- **Modular solution, based on standard building blocks**—Modular building blocks include hardware, software, licensing, and managed services.
- **Simplified IT managed for you**—Get a fully managed solution that includes monitoring, management, and operating your VDI infrastructure, with HPE GreenLake experts to migrate, integrate, secure, optimize, and resolve problems.
- **Secure by design**—HPE GreenLake for VDI is more secure than VPN because a laptop at home means anything can happen, and data copied from the enterprise can go anywhere. Our solution is immediately secure, so your data is protected. Also, in case a user's device is stolen or broken, you can seamlessly keep working from another device, without losing any data or putting it at risk to be shared. Moreover, the HPE design leverages your existing Demilitarized Zone (DMZ), helping ensure that your security policies are maintained.
- **Complexity of the VDI transformation taken by HPE**—Several organizations may be struggling with aging VDI infrastructure and a lack of VDI infrastructure expertise to effectively manage the complexity of an upgrade. HPE GreenLake for VDI helps you by making those changes cost-effectively while taking on that complexity for you and managing the solution up to the level you desire, freeing up IT resources for other critical activities.

¹ IDC MarketScape: Worldwide Support Services 2022 Vendor Assessment, IDC, 2022



Solution overview

- **VDI solution tailored to your needs**—With HPE as a partner, organizations have access to the largest architectural options with fully comprehensive support and management, all from the industry leader in VDI. HPE GreenLake for VDI is engineered on a customer-by-customer basis around the specific mix of user profiles. This makes the whole platform right to the needed performance at the right cost.
- **Elasticity**—The HPE GreenLake for VDI model empowers you to add/change/delete profiles as needed. The collaborative capacity planning process that is part of the model helps ensure that the appropriate resources are always available to sustain variability.
- **On-premises accelerated GPU**—HPE GreenLake for VDI is uniquely positioned to meet your requirements for demanding power and engineering user profiles who need an on-premises solution with accelerated graphic capabilities.
- **Single pane of glass**—Gain control over costs and governance across on-premises and public clouds with the HPE GreenLake platform.

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