

SIMPLIFY your client infrastructure.

HP Client Virtualization solutions

Virtualization brings data center-level control and security to a client near you.

Service brief

What's good for servers and storage is good for clients too

Like so many companies today, you've virtualized your server environment. Your server and storage resources are now shared across the organization—and you're reaping the resulting cost, security and manageability benefits all across the data center.

Now it's time to bring the same benefits to a simplified client infrastructure. Are you ready?

Tackle your biggest client challenges

It's no secret. The clients proliferating across today's large enterprise can be insecure, inflexible and not always well managed.

Managing information security and compliance can definitely be tough to handle. The data distributed across various client devices is always susceptible to virus attacks, hacking and theft. Research indicates that most organizations still do not encrypt laptops and mobile devices. This leaves you wondering: how do you secure data distributed across a myriad of client devices?

The current tough economic climate makes it more important to deal with rising IT costs associated with managing an increasingly complex client environment. Client virtualization could well be the right answer for your organization.

Virtualize—with less risk, cost and guesswork

At HP, we are rethinking client architectures to capitalize on data center benefits.

Built on experience, our approach follows a hybrid model that leverages a range of virtualization software and delivery models to improve upon the limitations of distributed client computing.

Your selected client environment moves client workloads from PCs and other client devices to data center servers, creating well-managed virtual clients. Applications and client operating environments are hosted on servers and storage in the data center. As a result, the predictable service continuity and quality of the HP Converged Infrastructure is extended to client applications and data.

For users, client virtualization means they can access their desktop anytime, anywhere—without being tied to a single client device. One individual login serves an individual client. Since the resources are centralized, as your users move between work locations, they access the same familiar client environment, complete with their applications and data.

For IT administrators, client virtualization means a more centralized, efficient client environment that is easier to maintain and responds agilely to business needs. From every view, your virtualized client environment is easier to scale, secure and manage.

Client virtualization comes in many forms

Talk about client virtualization and your discussion may well include virtual desktop infrastructure (VDI), application virtualization, dedicated remote clients and client-hosted virtualization.

With VDI, multiple concurrent instances of the desktop operating system and associated applications are virtualized on a centralized server infrastructure that users typically access from a thin client.

Application virtualization encompasses options such as application streaming, an on-demand software delivery model that takes advantage of the fact that most applications require only a small fraction of their total program code to run.

Dedicated remote clients, such as blade PCs and blade workstations, provide extra capacity for compute-intensive applications. As with other forms of client virtualization, the operating system, applications and data are locked down in the data center, reducing the risk of a security breach or data loss. Client-hosted virtualization can provide benefits and flexibility during migrations and upgrades while simplifying client management.

Complete client virtualization solutions—from one source

HP Client Virtualization solutions are scalable and standards-based, incorporating access devices, infrastructure and your choice of virtualization software. Solutions incorporate these components:

- HP ProLiant servers and HP BladeSystem servers with graphic expansion, allowing you to virtualize your network, storage and power infrastructure while reducing operating costs where your clients are hosted
- HP thin clients, providing the ideal access device into a virtualized environment while dramatically lowering maintenance costs and energy costs when compared to client PCs
- HP StorageWorks products, including HP StorageWorks storage area network (SAN) technology, for a flexible, scalable storage architecture ready to meet the availability, growth, management and performance needs of your virtual client environment
- HP ProCurve networking products and network integration services
- HP and Microsoft® management solutions

When it comes to virtualization software, HP partners with key software suppliers like Citrix, Microsoft and VMware for solutions built to include your choice of technologies.

Services simplify the client virtualization experience

To realize the potential of client virtualization, you need to rethink applications and operations management, infrastructure barriers, and client architectures. HP offers you a broad portfolio of services built on best practices and encompassing every phase of the virtualization lifecycle—starting with a focus on strategy and business value.

HP Client Strategy Services include:

- **Transformation Experience Workshop** – envisioning the complete experience of a client virtualization solution to help you realize the scope and scale of your solution as you create a high-level strategy that works for your organization
- **Business Benefits Workshop** – incorporating interviews with your key business stakeholders to help build a high-level client virtualization roadmap building on business priorities and benefit quantification
- **Strategic Architecture** – enabling you to link your client virtualization vision to a solution architecture design and implementation

HP Client Virtualization Services include:

- **Assessment** – reviewing your current desktop environment and pinpointing typical areas for potential costs savings
- **Solution Design** – focusing on integrated solution and architecture design, application compatibility, and system management
- **Proof of Concept and Pilot** – verifying design and integration, as well as performance and user acceptance for virtual client infrastructure and client virtualization
- **Solution Implementation** – deploying your solution leveraging best practices and roadmap, plus proof of concept learnings
- **Ongoing support** – giving you the level of support you need when you need it

Client virtualization made fast and easy

To enable greater reuse and flexibility, HP offers reference architectures for specific technologies, such as the HP Reference Architecture for VMware View. This highly scalable solution-in-a-rack meets your immediate requirement for client virtualization. Tested and validated by HP, the reference architecture scales from proof of concept to large enterprise deployment—with an affordable, efficient, self-contained, modular approach. Service blueprints provide a predictable path for implementing each solution model.

Count on real value from HP

At HP, we've been leaders in virtualization since its inception, training tens of thousands of people and supporting thousands of virtualization projects. We offer you the resources of a big company—with the care and attention of a small one. We can help you at every stage of your move to a virtualized client infrastructure.

- **Comprehensive service offerings from expert service professionals** – From assessment to design to implementation and support, we provide leadership services for the data center, network and client infrastructure to help ensure project success. Our team of service professionals brings you deep expertise. We've completed thousands of transformation projects, and we lead hundreds of best practice implementations.
- **Education services that tailor to your needs** – From hardware and software training to end user training on key Microsoft technologies like Microsoft Office 2010 and Windows® 7, our education services are designed to help you manage the change associated with the rollout of new technologies as we help users be more productive through new skills and knowledge. The results? Improved return on investment and improved

business outcomes.

- **Ability to provide end-to-end solutions** – HP

offers market-leading products for every component of the client architecture, including thin clients, remote display software, server hardware, storage solutions, virtualization software, client automation software, application modernization and integration services.

- **Flexibility** – We take a collaborative approach, working with you the way you want to tailor client infrastructure solutions to your specific needs. Whether you're approaching client transformation from a cost-reduction or control perspective, we can help you meet your goals.

- **Best-in-class partnerships** – HP has close working relationships with leading vendors in the virtualization and desktop space. We have the world's largest and most experienced Microsoft-trained workforce and the largest number of VMware-certified professionals. We are also the largest global VMware Authorized Training Partner, and a global system integrator for Microsoft, VMware and Citrix.

Begin your journey to simple, secure client computing

Looking for the right place to launch your client virtualization journey? Choose an entry point that is in step with where your organization is today. Starting with a strategy is often best. Consider an HP Transformation Experience Workshop to help build your strategy and plan first steps.

No matter where you are on the journey, we can help you move from strategic vision to successful implementation—with the right hardware, software and infrastructure solutions to bring your business the real benefits of client virtualization.

The time is now: rethink the client

To learn more, contact your HP sales representative or visit www.hp.com/services/clientinfrastructure.

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