

App Layering® Application and Workspace Management

Citrix App Layering is an open Windows workspace management solution. It makes packaging, updating, and delivering applications and managing images across any hypervisor, cloud, or end-user computing platform astonishingly fast and simple.



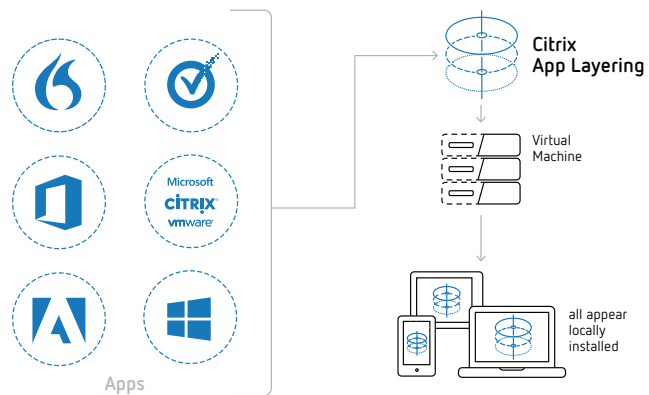
Integration with existing Citrix, Microsoft, and VMware desktop virtualization platforms allows you to deploy Citrix App Layering in minutes on existing infrastructures. Patented layering technology and a single virtual appliance are all you need to scale across any enterprise.

Citrix App Layering is the cost-effective alternative to embedding applications into gold images or struggling with legacy application virtualization and agent-based PC management tools. With Citrix App Layering, applications and personal settings are delivered in real-time to the users who need them, at up to 80 percent less cost for IT. It's the best way to manage Windows on premises today and in the cloud tomorrow.

Unequaled technology

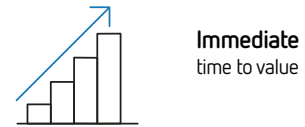
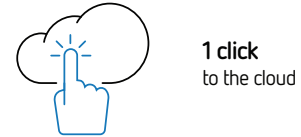
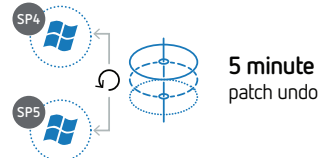
In January 2017, Citrix acquired Unidesk, which developed the industry's original and most complete layering solution that captures every component of a Windows workspace—OS, apps, and user data—as independent virtual disks. IT can deliver personal workspaces by stacking layers in any order through simple point-and-click assignment and Active Directory entitlements. Error-prone, repetitive, and costly re-installations and packaging procedures are no longer necessary. Effort is the same for one user or 100,000.

Whether deploying VDI with Citrix XenDesktop, Microsoft RDS, or VMware Horizon, or published applications and shared hosted desktops with Citrix XenApp or RDSH, Citrix App Layering provides a customizable workspace that can be accessed through any device. The same application layers and generated images are portable across end user computing platforms, hypervisors, and clouds for maximum IT agility.



Quantifiable business value

Apps are layered with a standard installation. Citrix App Layering merges OS, app, and user virtual disks using file system and registry virtualization so that all appear locally installed.



Unequaled capabilities.

More than 1,300 customers are using Citrix App Layering, which won Best of Citrix Synergy and Best of VMworld awards in 2016 for its unique capabilities.

- **99.5%+ application compatibility.** By starting below Windows and layering the OS itself, Citrix App Layering can package and deliver all apps, including apps with deep OS dependencies, system services, and early-start drivers.
- **Automated image management.** You can combine OS and app layers into a single virtual disk. You can then deliver these Layered Images™ through Citrix App Layering's connectors for Citrix PVS/MCS and VMware View Composer/Instant Clones, eliminating the need to patch multiple images.
- **Real-time app delivery.** Elastic Layering™ delivers apps and personalization at login to non-persistent VDI and XenApp/RDSH sessions to accelerate app delivery and increase return on existing investments.
- **Hypervisor and cloud portability.** The same App Layers and Layered Images can be delivered to any hypervisor or cloud without re-packaging to make end user computing flexible and future-proof.
- **Low latency logons.** The option to deliver apps pre-boot as part of a Layered Image minimizes the number of Elastic Layers that have to be attached at logon for the fastest-possible logon times.

Citrix XenApp and XenDesktop

- Plug-and-play solution for Citrix XenDesktop VDI and Citrix XenApp published desktops and applications
- Citrix App Layering connectors for Citrix Provisioning Services (PVS) and Machine Creation Services (MCS) eliminate need to manage multiple images and vDisks
- Elastic Layering delivers apps and personalization at logon to non-persistent VDI and shared XenApp desktops for truly stateless end-user computing
- Supports Citrix XenServer, Microsoft Hyper-V, Nutanix Acropolis Hypervisor, and VMware ESX/vSphere

VMware Horizon

- Plug-and-play solution for VMware Horizon VDI and RDSH
- Citrix App Layering connector for VMware View Composer and Instant Clones eliminates the need to manage multiple images
- Elastic Layering delivers apps and personalization at logon to non-persistent VDI and shared RDSH desktops for truly stateless end-user computing

Business benefits

- Accelerate app delivery
- Reduce app and image management costs
- Eliminate downtime due to problematic patches
- Extend XenApp at lower cost than refreshing PCs
- Reduce VDI storage costs
- Build easy on-ramp to the cloud

Technical benefits

- 99.5%+ application compatibility
- Layered Image and Elastic Layering delivery options
- Single-appliance, scaleout architecture
- Deliver apps and images to any hypervisor or cloud without repackaging

Microsoft RDS and RDSH

- Plug-and-play solution for Microsoft VDI and RDSH
- Integration with Hyper-V and RDS collections provide turnkey desktop provisioning and single image management
- Sharing of OS and application layers reduces VDI storage requirements up to 70%

Azure

- Citrix Layering connector for Azure eliminates need to manage multiple images to deliver different apps
- App Layering appliance can be hosted in Azure for infrastructure-free application delivery and management

Enterprise data center and hybrid cloud

- Application and image management for on-premises and cloud deployments are consolidated in a single appliance
- Applications and images can be managed once and used across different hypervisors, clouds, and end-user computing platforms
- Existing replication and backup tools protect the single standard VM and file share, and extend Citrix App Layering to remote data centers and public clouds
- Citrix Layering is not in any data path—layers still get delivered as long as data center storage and desktop virtualization infrastructure are available

Next steps

- Visit www.citrix.com/virtualization/app-layering.html for more information
- Read the blogs at www.citrix.com/blogs/tag/app-layering