

Application Layering technology cheat sheet 4.0

Vendors:	vmware®	liquidware	CITRIX®
Product name:	App Volumes.	FlexApps.	App Layering.
Supported Hypervisors:	ESXi, Hyper-V (in-guest).	ESXi, XenServer (in-guest), Hyper-V (in-guest), Acropolis (in-guest).	ESXi, XenServer & Hyper-V, Acropolis (in-guest).
Support for VHD & VMDK's:	Both (persistent & non-persistent).	Both (persistent & non-persistent).	Both (persistent & non-persistent).
Personal (data / app) disk:	Yes / Writeable Volumes – VDI / single machine only.	Yes / ProfileDisk and VHD containers for both VDI and XenApp / RDSH individual sessions.	Yes / User Layer – VDI / single machine only.
User profile management:	Yes / User Environment Manager – fully integrated, which includes monitoring as well.	Yes / through the ProfileUnity Mgmt. console – fully integrated. They offer profile portability between multiple Windows versions.	Yes / CTX Profile Mgmt. and Workspace Environment Management. Separate consoles – no integration available at this time.
Virtual & physical machines:	Virtual & Physical (non-persistent).	Virtual & Physical.	Virtual only.
Assign to users & machines:	Machines & Users (individual, groups or OU).	Machines & Users (individual, groups or OU). Besides this, LW offers a context-aware filter engine with more than 300 combinations of ways to assign applications.	Machines & Users (individual, groups or OU), depending on the use of Layered Images (layers assigned to images / machines) or Elastic Layering (layers assigned to users / sessions).
Delivery methods	Deliver layers at (re) boot or user login. Offer per user entitlement and installation of applications using AppToggle (as of version 3.0 – recommended for cloud-based customers only). Assign to machine only for XenApp / RDSH.	Deliver layers at (re) boot, user login (in parallel, so it doesn't delay the user login process) or on demand / dynamic through their new 'click To Layer' delivery model. Configure individual application sets (layers) on a per-user basis, in their unique sessions with FlexApp Session Isolation for XenApp / RDSH.	Deliver layers at (re) boot (Layered Images – PVS, MCS, Composer, etc.), or user login to individual Citrix XenApp or RDSH sessions / users, on a per-user basis (Elastic Layering). Run different versions of the same application (layers) on a per-user basis using Session Containers.
License types:	10 / 100-pack offerings on a named and concurrent connection basis.	Concurrent / named user. Pricing available on their website.	User / Device / Concurrent as part of XenApp and/or XenDesktop.
Multiple editions:	Yes: Standard, Advanced and Enterprise. Features differ per edition.	No. One edition, which includes all features and functionality.	Yes: Advanced / Enterprise and Platinum. Non-platinum only supports one Hypervisor, Cloud, and Provisioning mechanism.
Agent install needed:	Yes.	Yes.	Yes.
Separate mgmt. Console:	No. Unified Management Console – app & user Mgmt. + monitoring.	Yes / no. Stand-alone web-based when purchased separately, or integrated as part of the ProfileUnity console (Essentials Bundle).	Yes. Web-based.
Lifecycle Mgmt. Options:	Yes.	Yes.	Yes.
Portability / flexibility	++++	+++++	+++
Various, misc.	Appcapture with isolation, an easy and efficient way to capture and update applications, simplify delivery and isolation. Integration with ThinApp for delivery through App Volumes AppStacks. Appscaling with Multizones – replicate AppStacks across multiple sites. App Volumes template in the VMware OS Optimization Tool. Instant clone integration.	Micro isolation to resolve application file / dll conflicts. Office 365 caching and improved search through their ProfileDisk / container technology – indexing included. Enhanced FlexApp reboot handling during the app layer capture process. Role-based access is optional through ProfileUnity console. Multiple cloud offerings are announced to be developed going forward. Nutanix integration.	Nutanix integration. RES partnership. VMware is still supported as well (stand-alone product licenses are available). AppDNA, MCS and PVS integration. A Layered Image consists out of an OS layer, platform layer, and one or multiple application layers. Layered Images are published using image templates.
Platform support:	XenApp & XenDesktop, View, Horizon & RDSH.	XenApp & XenDesktop, View, Horizon & RDSH, Azure & AWS / Amazon Workspaces.	XenApp & XenDesktop, View, Horizon, RDSH, Azure & AWS.
Other tooling & services:	Yes. The VMware portfolio.	Yes. Stratusphere FIT & UX (assessment, monitoring, diagnostics), and the ProfileUnity End User Management platform. FlexDisk (storage acceleration for non-persistent VDI) part of ProfileUnity.	Yes. The Citrix portfolio.