

# VMware Horizon

## Q. What is VMware Horizon?

- A. VMware Horizon® is a family of desktop and application virtualization solutions designed to deliver Windows and online services from any cloud. With Horizon, VMware extends the power of virtualization—from data centers to devices—to deliver desktops and applications with great user experience, closed-loop manageability, and hybrid- cloud flexibility.

VMware Horizon is available for purchase through VMware Horizon 6 for virtual desktops and applications run from your data center, VMware Horizon® Air™ for virtual desktops and applications served up as a cloud-hosted service from outside of your data center and VMware Horizon Flex™ for containerized virtual desktops run locally.

## VMware Horizon 6

### Q. What is Horizon 6?

- A. Horizon 6 allows IT to deliver virtual or RDSH hosted desktops and applications through a single platform to end users. These desktop and application services—including RDS hosted apps, packaged apps with VMware ThinApp®, SaaS apps, and even virtualized apps from Citrix—can all be accessed from one unified workspace to provide end users with all of the resources they want, at the speed they expect, with the efficiency business demands. Horizon 6 is available in three editions:

- Horizon View Standard – Simple, powerful VDI with great user experience
- Horizon Advanced – Cost-effective delivery of desktops and applications through a unified workspace
- Horizon Enterprise – Desktops and applications delivered with cloud automation and management

### Q. What are the key features of Horizon 6?

- A. Horizon 6 allows organizations to extend the power of desktop and application virtualization to support workplace mobility while driving greater levels of operational efficiency at lower costs.

#### Key feature highlights include:

#### Desktops and Applications Delivered Through a Single Platform

Deliver virtual or remoted desktops and applications through a single platform to streamline management, easily entitle end users, and quickly deliver Windows desktops and applications to end users across devices and locations.

Horizon 6 now supports a single platform for delivering hosted Windows applications and shared desktop sessions from Windows Server instances using Microsoft Remote Desktop Services (RDS), virtual desktops and ThinApp packaged applications.

Horizon 6 now additionally supports both Windows as well as Linux-based desktops—including RHEL, Ubuntu, CentOS and NeoKylin operating systems.

#### Unified Workspace with Secure and Trusted Access

With Horizon 6, end users can simply and securely access desktops and applications (including RDS hosted apps, packaged ThinApps, SaaS apps and even virtualized apps from Citrix) through a unified workspace. IT organizations can similarly secure desktops and apps based on even the most stringent regulations and streamline the management of multiple identity sources like active directory and LDAP to efficiently manage end user access. End users can also use single sign-on (SSO) from their Unified Workspace Web app portal to sign in to AirWatch® Web Secure Content Locker™ and to enroll their devices if they are also using AirWatch Mobile Device Management.

Horizon 6 supports the ability to:

- Deliver seamless and secure access that allows only authenticated traffic access to all end user computing services.
- Streamline identity management across identity sources and provide end users with contextual and customizable access to resources through a single unified workspace.
- Provide fast end user access and real-time validation with 2-factor, smart-card and bio-metric fingerprint authentication.
- Take advantage of FIPs 140-2 compliance to ensure that all cryptography meets common criteria standards.

#### Great User Experience

With Horizon 6, IT can deliver desktops and applications to end users through a unified workspace with Blast Performance to enable consistently great experiences across devices, locations, media, and connections.

Applications that can be delivered and accessed through the unified workspace include:

- XenApp 5.0 and later
- Microsoft RDS-hosted apps and desktops for Windows Server 2008 and later
- SaaS applications
- ThinApp 5.0 and later
- DaaS desktops and applications

**Blast Performance includes**

- **Blast Adaptive UX** – Optimized access across the WAN and LAN through an HTML browser or our purpose-built desktop protocol, PCoIP.
- **Blast Multimedia** – High-performance multimedia streaming for rich user experience.
- **Blast 3D** – Rich virtualized graphics delivering workstation-class performance for both virtual desktops and RDSH hosted applications
- **Blast Live Communications** – Fully optimized unified communications and real-time audio-video (RTAV) support. Horizon 6 now includes support for apps and desktops for Microsoft Lync with Windows 10.
- **Blast Unity Touch** – Intuitive and contextual user experience across devices, making it easy to run Windows on mobile.
- **Blast Local Access** – Access to local devices and drives, USB, and device peripherals.
- **Horizon Clients with Blast** – Unified client for consistently great experience across devices and locations.

**Comprehensive Workspace Environment Management**

Horizon 6 ensures that IT can consolidate control, deliver, monitor and protect user compute resources.

Horizon 6 now includes support for:

**Real-time Application Delivery and Management**

- Easily package applications to avoid compatibility issues.
- Instantly provision applications at scale.
- Dynamically attach applications to users, groups or devices, even when users are logged onto their desktop.
- Provision, deliver, update, and retire applications in real time.

**User Environment Management**

VMware User Environment Manager™ offers personalization and dynamic policy configuration across any virtual, physical and cloud based environment.

- Simplify end-user profile management by providing organizations with a single and scalable solution that leverages existing infrastructure.
- Provide end users with quick access to a Windows workspace and applications, with a personalized and consistent experience across devices and locations.

**Image Management**

- Support for desktop and application provisioning and entitlement through View.
- Support for VMware Mirage™ unified image management for streamlined management across virtual datacenters of physical and full clone virtual machines.
- Ability to update your desktops or entire RDSH farm through View Composer with Linked Clones.

- Support optimal RDSH server utilization while providing great user experience.
- Ability to build-the largest, most distributed infrastructure while enabling easy access to virtual desktops or RDSH hosted apps and desktops across geographic locations.

**Analytics and Automation**

- Cloud analytics with VMware vRealize™ Operations for Horizon® provides comprehensive visibility across a Horizon desktop and application environment as well as a Citrix XenApp 6.5 environment, allowing IT to optimize the health and performance of desktop and application services.

**Orchestration and Self-Service**

- VMware vCenter™ provides a centralized platform to manage your desktop workloads.
- A plug in to VMware vRealize™ Orchestrator™ allows IT organizations leverage VMware vRealize™ Automation™ for automated desktop and application provisioning.

**Optimized for the Software-Defined Data Center**

- Horizon 6 extends the power of virtualization with virtual compute, virtual storage, and virtual networking and security to drive down costs, enhance the user experience, and deliver greater business agility.
- Only Horizon can leverage native storage optimizations from VMware vSphere® including SE Sparse, VAAI, and storage acceleration to drive down storage costs while delivering a superior user experience.
- Horizon 6 with VMware Virtual SAN™ automates storage provisioning and leverages direct-attached storage resources to drive down storage costs for desktop workloads. Horizon now supports Virtual SAN enterprise with all-flash and stretch cluster capabilities to better support more end users at lower costs across distributed locations.
- Horizon 6 with VMware Virtual Volumes™ simplifies NAS and SAN storage management and policy setting and delivers the benefits of View Composer Array Integration (VCAI) on block storage and NFS to speed offloading for better SLAs and performance.
- VMware EVO:RAIL™ and EVO™ SDDC™ with Horizon leverage Virtual SAN and the power of the SDDC to enable organizations to cost-effectively and quickly transform physical desktops into secure virtual workspaces with a hyper-converged appliance that's easier to procure, deploy, manage, and scale with consistently great performance.
- VMware NSX™ with Horizon brings speed and simplicity to VDI networking with security policy that dynamically follows end users across infrastructure, devices and locations. Learn more about this solution and how to add VMware NSX to your Horizon deployment.

### Q. What is included in the three Horizon 6 Editions?

A. Horizon 6 View Standard, Horizon 6 Advanced, and Horizon 6 Enterprise are bundled with the following components and capabilities:

FEATURE	HORIZON VIEW STANDARD	HORIZON ADVANCED	HORIZON ENTERPRISE
<b>Desktops and Applications</b>			
Windows virtual desktops and session based desktops	•	•	•
Linux Desktops			•
Unified workspace – XA, RDSH, SaaS, ThinApp		•	•
Hosted applications (RDSH)		•	•
Packaged applications (ThinApp)	•	•	•
BLAST PERFORMANCE (3D, UC, MMR etc)	•	•	•
<b>MANAGEMENT</b>			
<b>Image Management</b>			
Image management for physical desktops (VMware Mirage™ + VMware ThinApp)		•	•
<b>Application Management</b>			
Real-time application delivery (App Volumes)			•
<b>User Environment Management</b>			
User, profile and policy management			•
<b>Cloud Automation</b>			
Cloud automation and self-service (Orchestrator + desktop plug-in)			•
<b>Cloud Analytics and Operations Management</b>			
Operations dashboard – Health monitoring and performance analytics (vRealize Operations for Horizon)			•
Capacity management – Planning and optimization (vRealize Operations for Horizon)			•
<b>INFRASTRUCTURE</b>			
<b>Storage</b>			
Virtual storage (vSAN with all-flash)		•	•
<b>Desktop Infrastructure</b>			
Cloud infrastructure (VMware vSphere® Desktop and vCenter Desktop)	•	•	•

Table 1. Horizon 6 Features by Edition

### Q. What happened to Horizon View (formerly VMware View)?

A. VMware Horizon® View™ is still available as a standalone offering in Horizon View Standard Edition on a per concurrent connection basis at the same price as the former Horizon View Premier bundle. If you are looking for a simple and powerful desktop virtualization solution with a great user experience, consider Horizon View Standard Edition. To leverage the best of Horizon View and extend these benefits beyond VDI to provide end users with one place to securely access all their desktops and applications, purchase Horizon Advanced Edition. If you want to deliver desktops and applications with the benefit of cloud management, automation, and orchestration, choose Horizon Enterprise Edition.

### Q. Is Horizon Enterprise Edition equivalent to the View Enterprise Edition?

A. No. Horizon Enterprise Edition is the most comprehensive solution in the Horizon portfolio. View Enterprise Edition reached its end of availability in 2013. Customers with VMware View Enterprise with current support and subscription (SnS) continue to receive support. These customers can also upgrade to any new Horizon edition.

### Q. What is the difference between Horizon Enterprise and VMware Horizon Suite?

A. Horizon Enterprise has all the features and functionality included in VMware Horizon Suite, with the exception of support for file sharing. However, Horizon Enterprise includes features not bundled with Horizon Suite, such as support for hosted RDS applications and desktops, App Volumes for just-in-time application delivery, Virtual SAN and a cloud orchestration plug-in.

### Q. What is the unified workspace?

A. The unified workspace is a storefront for end users to securely access their desktops, applications, and online services. It supports access to applications and desktops running Microsoft Windows Remote Desktop Services, XenApp 5.0 and later, ThinApp, SaaS, and virtual desktops with Horizon View. The unified workspace also provides IT with a central point of control on the back end to manage reporting, policy access, and delivery. The unified workspace is supported in Horizon Advanced and Horizon Enterprise editions.

### Q. What is Blast Performance?

A. Blast Performance is a comprehensive set of technologies available with Horizon 6 that are designed to ensure that end users have a consistently great experience across devices, locations, media, and connections. Blast Performance extends across the following:

- **Blast Adaptive UX** – Optimized access across the WAN and LAN through an HTML browser or our purpose-built desktop protocol, PCoIP.
- **Blast Multimedia** – High-performance multimedia streaming for rich user experience.
- **Blast 3D** – Rich virtualized graphics delivering workstation-class performance.
- **Blast Live Communications** – Fully optimized unified communications and real-time audio-video (RTAV) support. Horizon 6 now includes support for Microsoft Lync with Windows 8.
- **Blast Unity Touch** – Intuitive and contextual user experience across devices making it easy to run Windows on mobile.
- **Blast Local Access** – Access to local devices, USB, and device peripherals.
- **Horizon Clients with Blast** – Unified client for consistently great experience across devices and locations.

**Q. You mentioned support for 3D above, does Horizon support NVIDIA vGPU today?**

- A. VMware Horizon supports NVIDIA GRID vGPU with vSphere today to deliver secure, immersive 3D graphics from the cloud, via virtual desktops or RDSH hosted applications that can be easily accessed across devices and locations, more affordably than ever before.

**Q. What are some of the latest enhancements in Horizon 6 in support of RDSH hosted applications and session based desktops?**

- A. VMware has recently announced a number of new features in with RDSH hosted apps and desktops including support for printing, USB flash drive, imaging devices and scanners, HTML access, chrome clients, multi-media redirection, file association, Lync 2013 support, NVIDIA GRID vGPU support and more.

VMware has also just introduced support for RDSH hosted applications with linked clones to allow IT to quickly update RDSH server farms. Organizations can take advantage of load balancing support for RDSH optimize server utilization while ensuring great user experience. Additionally VMware is now supporting cloud pod architecture for hosted apps, allowing organizations to build the largest, most distributed infrastructure while enabling easy access to RDSH hosted apps and desktops across geographic locations.

**Q. Does Horizon also support Linux operating systems in addition to Windows operating systems?**

- A. Yes, Horizon Enterprise will support both Windows as well as Linux (RHEL, Ubuntu, CentOS and NeoKylin).

**Q. What is VMware workspace environment management?**

- A. Workspace environment management encompasses a core set of management and automation capabilities that customers can take advantage of with Horizon. These capabilities consolidate, control, orchestrate, and protect user compute resources and leverage VMware App Volumes, VMware Mirage, VMware User Environment Manager™, vRealize Operations for Horizon, vCenter, and a plug-in for vCenter Orchestrator™ and vCloud Automation Center.

**Q. What is image management for physical machines?**

- A. Image management for physical and virtual machines leverages Mirage to ensure that IT can easily deploy images to end users across all physical endpoints. This capability is included in Horizon Advanced and Enterprise editions.

**Q. What is VMware App Volumes?**

- A. VMware App Volumes supports real-time application delivery to virtualized desktop environments. With Horizon 6 and App Volumes, IT can build a real-time application delivery system that ensures all applications are centrally managed. Applications are delivered to virtual desktops through VMDK virtual disks, without modifying the VM or applications themselves and can be scaled out to virtual desktops with superior performance, at lower costs and without compromising end-user experience.

**Q. What is User Environment Manager?**

- A. VMware User Environment Manager offers personalization and dynamic policy configuration across any virtual, physical and cloud-based environment. User Environment Manager can simplify end-user profile management by providing organizations with a single and scalable solution that leverages existing infrastructure. IT can simply map infrastructure (including networks and printer mappings) and dynamically set policies for end users to securely support more use cases. With this solution, end users can also enjoy quick access to their Windows workspace and applications, with a personalized and consistent experience across devices and locations.

**Q. What is cloud analytics and operations management?**

- A. VMware vRealize Operations for Horizon provides cloud analytics and operations management for virtual desktop and application environments, allowing IT to optimize the health, availability, performance, and efficiency of desktop and application services. vRealize Operations for Horizon is included in the Horizon Enterprise Edition and also supports Citrix XenApp 6.5 environments.

**Q. What is cloud orchestration?**

- A. Cloud orchestration with Orchestrator allows IT to plug in to vCloud Automation Center for the automated provisioning of desktops and charge-back/ show-back capabilities to ensure better transparency around desktop and infrastructure usage. This capability is available in Horizon Enterprise Edition.

**Q. What is cloud pod architecture?**

- A. The cloud pod architecture allows customers to dynamically move and locate Horizon View and RDSH pods across multiple data centers for efficient management of end users across distributed locations. This feature is available with all Horizon editions.

**Q. What is VMware Virtual SAN?**

- A. VMware Virtual SAN, a new software-defined storage tier, pools compute and direct-attached storage resources and clusters server disks and flash to create resilient shared storage. Virtual SAN provides customers with a low-cost storage alternative that eliminates the need to overprovision storage to ensure that end users have enough IOPS per desktop. Customers can additionally simplify storage provisioning by managing this through Horizon. Virtual SAN now also supports all-flash and stretch cluster support. It is included with Horizon Advanced and Enterprise editions.

**Q. What is NSX for Horizon and is it included with Horizon editions?**

- A. NSX for Horizon is a standalone offering available to customers who are looking for a fast and easy way to set networking security policy for end users that follows them across devices and locations—regardless of changes in the underlying physical infrastructure. NSX for Horizon does not come with any of the Horizon editions.

**Q. What is the SysTrack Desktop Assessment?**

- A. The SysTrack Desktop Assessment (SDA) is a FREE self-service platform that provides customers with comprehensive visibility into their end user environment, infrastructure and applications and provides solution recommendations based on user segmentation to put customers on the path to success as they move forward with VMware and Horizon products.

**Q. What is Project Enzo?**

- A. Project Enzo is a new cloud-scale architecture that draws on cloud-based management, intelligent orchestration and hyper-converged infrastructure to radically transform virtual desktop and application delivery—making it easier and more cost-effective than ever before to deploy, scale and move desktops and apps across private or public clouds or back and forth between the two. Project Enzo is not yet available to the market. It will however fall under the Horizon family of desktop and application virtualization products.

**Q. How do I buy VMware Horizon 6?**

- A. VMware Horizon 6 is available through the VMware Store and authorized VMware resellers and desktop competency partners. For more information, visit <http://www.vmware.com/go/horizon>.

**Q. What happens if I am using an earlier version of Horizon (e.g., VMware Horizon View)?**

- A. All customers with a valid VMware SnS contract are eligible to receive a complimentary upgrade to Horizon View Standard Edition. If you do not have a current SnS contract and want to reinstate your contract, contact VMware Support or visit <http://www.vmware.com/support/questions.html>.

**Horizon 6 Licensing****Q. How is Horizon 6 licensed?**

- A. The Horizon Advanced and Horizon Enterprise editions are available in two license models
- Per named user (NU) – For virtual environments with staff that require dedicated access to a virtual machine throughout the day.
  - Perpetual per concurrent connection (CCU) – For virtual environments with a high number of users who share machines throughout the day, such as students and shift workers. A concurrent connection is defined as a powered-on VM and connected virtual desktop session. Here organizations own the licenses.

**Note:** Horizon View Standard is only available on a concurrent connection basis.

In both NU and CCU metrics, the components of the bundle cannot be split between users. This applies to both named and concurrent connection instances. Although it has individual components, they should be thought of as a single product. In this manner—even if an end user in a concurrent connection scenario is only connected to View—the other associated components of the bundle (e.g. VMware Identity Manager™ and Mirage) are also considered to be attached to that user and not available to be entitled to other users.

**Example:**

Organization A has 100 concurrent connection licenses of Horizon Enterprise. User A connects to their virtual desktop and consumes 1 concurrent connection. However User A is not using Mirage. Does this free up Mirage for another user—given that user A is not active on Mirage? The answer is no. Even if User A is not connected to all of the components in the bundle—once he/ she connects to any one of the components in the bundle—the others by default become attached to that user for as long as they are connected to their session.



**When to use Named User (NU) and when to use Concurrent Connection User (CCU)**

If the primary use case is around Horizon with View and the customer has end users accessing their desktops in shifts

(e.g. 200 in the morning and 200 in the evening-but never all 400 at the same time)—AND the customer does not foresee needing more than 200 instances of Mirage or Identity Manager at any given time-then the customer should buy 200 CCU of Horizon.

If the primary use case is around Horizon with View and the customer does not have shift workers (e.g. all 400 employees are always connected at the same time) then the customer should buy NU. In this instance, the customer would also have access to 400 seats of Mirage and Identity Manager to entitle to these same 400 employees.

If the primary use case is around Horizon with View and the customer has 200 shift workers in the morning and 200 in the evening, and the customer has 50 other non-shift workers that need Mirage, then the customer should buy 200 per CCU licenses of Horizon and an additional 50 seats of Mirage stand alone.

**Concurrent connection and Mirage/Identity Manager (formerly VMware Workspace™ Portal)/ Fusion Pro**

While Horizon Advanced and Enterprise are available on a per concurrent connection basis—the Mirage and Identity Manager components in the bundle can only be consumed on a named user (Mirage, Identity Manager) or device (Mirage, Fusion Pro) basis. As such if a customer has 400 workers and 200 of these workers come in during the day and 200 at night—and if the customer want to give all of these workers access to View and Mirage—then the customer has two choices. They can buy 200 CCU of Horizon Advanced and a 200 pack of VMware Mirage or they can buy 400 CCU of Mirage. Clearly the first option is much more cost effective for most customers. However regardless of the choice—the customer will need 400 seats of Mirage to cover for the 400 employees even if only 200 are ever connected at any given time. The same rules apply to Identity Manager.

**Q. How do I get a Horizon client for my devices and how much does it cost?**

- A. Horizon clients for different devices are included as part of the Horizon solution at no additional cost and are available in the product download portal.
  - Horizon View Client for iOS is available from the Apple iTunes store.
  - Horizon Client for Android is available from the Google Play store.

**Q. Which VMware vSphere edition does the VMware Horizon 100-pack contain? How many licenses are included?**

- A. All Horizon editions include VMware vSphere Desktop, which has the same functionality and features as vSphere Enterprise Plus Edition. vSphere Desktop is licensed on a per concurrent connection basis, so you can deploy as many hosts as needed to support the number of concurrent connections for which you are licensed.

**Q. What if I have a third-party or homegrown connection broker but want to deploy my desktops on VMware infrastructure?**

- A. You can purchase vSphere Desktop on a per powered-on desktop virtual machine basis.

**Q. Can I mix vSphere hosts with licenses from the Horizon 6 and vSphere hosts that are licensed via vSphere a la carte?**

- A. A mixed environment is not recommended because during disaster recovery, server workloads might live-migrate via VMware vSphere vMotion® to a vSphere host running the Horizon license, which would violate the EULA. Customers are advised to keep their environments separated or purchase a la carte vSphere, vCenter, and Horizon licenses to entitle the deployment of a mixed environment.

**Q. Are Add-ons still available?**

- A. Yes, customers with excess vSphere licenses can buy Horizon View Standard, Horizon Advanced or Horizon Enterprise add ons.

**Q. Can I run other server workloads on the vSphere component that is included in Horizon View?**

- A. The Horizon vSphere and vCenter components are restricted to desktop deployments. A desktop virtual machine is defined as a virtual machine running the following operating systems: Windows 95/98, Windows 2000 Professional, Windows XP Professional, Windows Vista Ultimate, Windows Vista Business, Windows Vista Enterprise, Windows 7, Windows 8, Windows 8.1, or Windows Server 2008/2012. Components that make up the virtualized desktop infrastructure include VMware View® Manager™, VMware vCenter Server™ (or another connection broker), and any desktop management, performance monitoring, and automation tools used solely for hosted desktop virtual machines.

**Q. Can I run Horizon View Standard Edition and Horizon View Standard Add-ons in the same environment?**

- A. Horizon includes all the components for end-to-end desktop deployments and is licensed on a concurrent connection basis. Horizon View Standard Add-on SKUs only include the desktop components included in View Manager. Horizon Add-ons require an a la carte vSphere license to support the

concurrent connections purchased. You cannot deploy Horizon Add-ons on the vSphere edition included in Horizon, because add-ons are restricted to the number of concurrent connections purchased. It is recommended that customers choose a licensing path of bundles or add-ons to simplify license management.

**Q. Can I run Horizon Add-ons on any edition of vSphere?**

- A. Customers running Horizon Add-on SKUs can run these workloads with any edition of vSphere, except vSphere Desktop included with the Horizon Standard, Advanced, and Enterprise editions. Customers are required to ensure that they have enough hosts to support the number of desktop workloads running at any given time. Customers purchasing Horizon Standard, Advanced, or Enterprise receive vSphere Desktop and should not require additional vSphere licenses.

**Q. How can I tell if I have a vSphere Desktop license, and how is it licensed?**

- A. The vSphere license included with Horizon is designated for use with client and server OS desktop and application workloads only and appears in the license portal as “vSphere Desktop” for tracking and auditing purposes. vSphere Desktop is licensed for the total number of Horizon named users or concurrent connections you have purchased.

**Q. How is Virtual SAN for Desktop licensed in Horizon 6?**

- A. Virtual SAN enterprise is a feature of the Horizon Advanced and Horizon Enterprise editions. Virtual SAN is licensed for up to the total number of Horizon named users or concurrent connections that you have purchased.

**Q. How is User Environment Manager (formerly of Immidio) licensed in Horizon 6?**

- A. User Environment Manager is licensed with Horizon Enterprise on a per named user or per concurrent connection basis and will map directly to the licensing of the overall bundled offering. In a concurrent setting, customers need to ensure that they do not exceed the maximum agreed upon active and powered on sessions. This offering is also available as a standalone a la carte offering for customers using Citrix or looking to manage physical and cloud-hosted environments.

**Q. How is App Volumes (formerly of Cloud Volumes) licensed in Horizon 6?**

- A. App Volumes is licensed with Horizon Enterprise on a per named user or per concurrent connection basis and will map directly to the licensing of the overall bundled offering. In a concurrent setting, customers need to ensure that they do not exceed the maximum agreed upon active and powered on sessions. It is also available as a standalone, a la carte offering for customers looking to use this in conjunction with Citrix environments.

**Q. How is Horizon for Linux licensed in Horizon 6?**

- A. Horizon for Linux is licensed on a per named user or per concurrent connection basis and will map directly to the licensing of the overall bundled offering. In a concurrent setting, customers need to ensure that they do not exceed the maximum agreed upon active and powered on sessions. This feature is only available in the Horizon Enterprise edition to support users looking to access both Windows as well as Linux sessions. It is also available as a stand-alone offering on a concurrent connection user basis.

**Q. How is VMware Mirage licensed in Horizon 6?**

- A. Mirage is a feature of the Horizon Advanced and Horizon Enterprise editions. Mirage is licensed for up to the total number of Horizon named users or concurrent connections that you have purchased. Mirage however cannot be used on a concurrent connection basis. If you purchase 200 licenses (regardless of whether these are named user or concurrent) you will only be able to deploy the Mirage licenses on a per named user basis—as once they are deployed they remain active and connected at all times.

**Q. If I have Mirage, is there an upgrade path to Horizon FLEX?**

- A. Horizon FLEX is a different product which supports centralized management of BYO and disconnected Mac Book and Windows laptop users with advanced policy settings, while ensuring that end users can enjoy local compute resources. There is no upgrade path from Mirage to Horizon FLEX.

**Q. How is ThinApp licensed in Horizon 6?**

- A. VMware ThinApp is licensed per named user, device, or concurrent connection when purchased as part of Horizon 6. You can deploy ThinApp client licenses included in Horizon 6 to physical or virtual machines. As a result, you can use ThinApp licenses purchased separately or as part of Horizon interchangeably.

**Q. How is Horizon for EVO:RAIL or EVO SDDC licensed?**

- A. Customers can purchase any Horizon add-on edition through VMware or VMware partners and pair this with the EVO appliance. These add ons do not include Virtual SAN, vCenter or vSphere. Customers can also purchase these SKUs directly through Qualified EVO appliance partners who carry these SKUs.

**Q. I notice you have a Horizon Application Management Bundle—can I purchase this as a Horizon customer?**

- A. The VMware Horizon Application Management™ Bundle includes VMware Identity Manager (formerly Workspace Portal) with ThinApp, VMware App Volumes, VMware User Environment Manager and VMware vRealize Operations for

Published Apps. This version of vRealize Operations only supports Citrix XenApp 6.5 environments. Horizon customers who wish to purchase this bundle may do so—but it is important to note that the instance of vRealize Operations that is included does not support a Horizon environment.

**Q. Which products can be purchased standalone?**

- A. You can purchase Mirage, ThinApp, VMware Identity Manager (formerly Workspace Portal), App Volumes, User Environment Manager, vRealize Operations for Horizon, vSphere for Desktop, Horizon for Linux Desktops and Virtual SAN as standalone products.

**Q. If I am a Horizon Suite customer, can I upgrade to Horizon Enterprise?**

- A. Horizon Enterprise Edition is priced the same as Horizon Suite. Horizon Suite customers looking to expand can upgrade to take advantage of hosted applications and the vCenter Operations plug-in.

**Q. If I am a Mirage, App Volumes, User Environment Manager or Identity Manager customer, can I upgrade to Horizon Advanced or Enterprise?**

- A. Yes, you can upgrade to Horizon Advanced or Enterprise.

**Q. Can I upgrade from ThinApp to a Horizon 6 edition?**

- A. Yes, you can upgrade in a two-step process to either the Thin Client Suite or Horizon Add-ons and then to Horizon View Standard Edition.

**Q. If I have perpetual licenses is there currently a migration path to take these licenses and convert them to subscription or term-based licenses?**

- A. This is not something that is currently supported at this time.

## Horizon Support

**Q. What kind of technical support is available for VMware Horizon?**

- A. VMware requires Basic (12x5) and Production (24x7) support for all components included in the Horizon editions, including vSphere, vCenter, and View Manager. In addition, customers can purchase Business Critical Support to complement Production Support. VMware Business Critical Support offers access to a dedicated account team who will build and maintain a profile of your Horizon installation and provide regular account reviews. The VMware Professional Services organization is also available for Horizon consultations or to deploy Horizon in your organization.

For more information, visit <http://www.vmware.com/support/horizon>.

**Q. Do I need to buy a VMware support contract for the Horizon 6 offerings?**

- A. To ensure that you realize the benefits of Horizon quickly, a minimum of one year of Basic VMware SnS is required with the purchase of any Horizon edition. You can upgrade to Production Support and then elect to add Business Critical Support. Multiyear discounted offerings for all VMware support levels are also available.

**Q. Where can I get more information on Desktop EOA and lifecycle management?**

- A. For more information around VMware Enterprise Desktop EOA and support policies; please visit: <https://www.vmware.com/support/policies/enterprise-desktop/faqs.html>.

## Horizon DaaS

**Q. What is Horizon Air Desktops and Apps?**

- A. VMware Horizon Air™ Desktops and Apps (formerly Horizon DaaS) is a VMware managed offering that enables organizations to rapidly deploy desktops and applications as an easily managed, integrated cloud service to any device, anywhere at an affordable price. Horizon Air allows end users to securely access their virtual desktops from any device or browser, and IT to easily manage their deployment using existing skills and tools. Backed by the trusted foundation of VMware vSphere, Horizon Air delivers the reliability, security and performance that IT expects, with VMware business-essential support. For more information on Horizon Air Desktops and Apps, please visit <http://vmware.com/go/daas>.

## Horizon FLEX

**Q. What is Horizon FLEX?**

- A. VMware Horizon FLEX is a complimentary solution to the Horizon portfolio with the key feature being that the data is stored locally allowing end-users to work offline or on the road. It is a bundled offering that includes a FLEX policy server, FLEX clients (Fusion Pro for Macs and Player Pro for PCs) and image management capabilities. Common use cases for Horizon FLEX include bring your own (BYO) PCs, disconnected workers where VDI is not a viable option, temporary workers or contractors, development and training environments and regional offices.

