# Three Key Reasons to Leave Your Legacy Citrix Environment Behind

See how VMware helps forward-thinking organizations prepare for the future of work

**Future Ready Workforce**
Make the Move to VMware

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Modernize Your Legacy Platform

Get Started

# Make Your Distributed Workforce Future Ready

The events of early 2020 created the world's largest work-from-home experiment, and now savvy organizations are seeing the benefits of flexible workplace models that combine office, home and roaming. With distributed workforces being the new normal for many organizations, building and managing an intrinsically secure, scalable infrastructure for employees working anywhere is a top-of-mind priority for desktop virtualization admins everywhere.

## Increasing flexibility through a strategic vision

VMware cloud, app modernization, networking, security, and digital workspace platforms form a flexible, consistent digital foundation for the future. And as part of the digital workspace, VMware Horizon® helps deliver virtual desktops and apps for employees to more securely access resources from anywhere. With unique integration into VMware vSphere®, VMware vSAN™ and VMware NSX®, Horizon was designed with virtualized, automated, software-defined infrastructure in mind. Horizon harnesses the power of these market-leading technologies, and is an optimized workload on *VMware Cloud Foundation™*. It enables you to build a flexible architecture that delivers virtual desktops and apps across the hybrid cloud.

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With Horizon, you can reduce infrastructure costs, simplify network provisioning, increase security, and reduce management overhead. No other technology capitalizes on the best-in-class capabilities of the end-to-end VMware Cloud Infrastructure in the way that Horizon does.
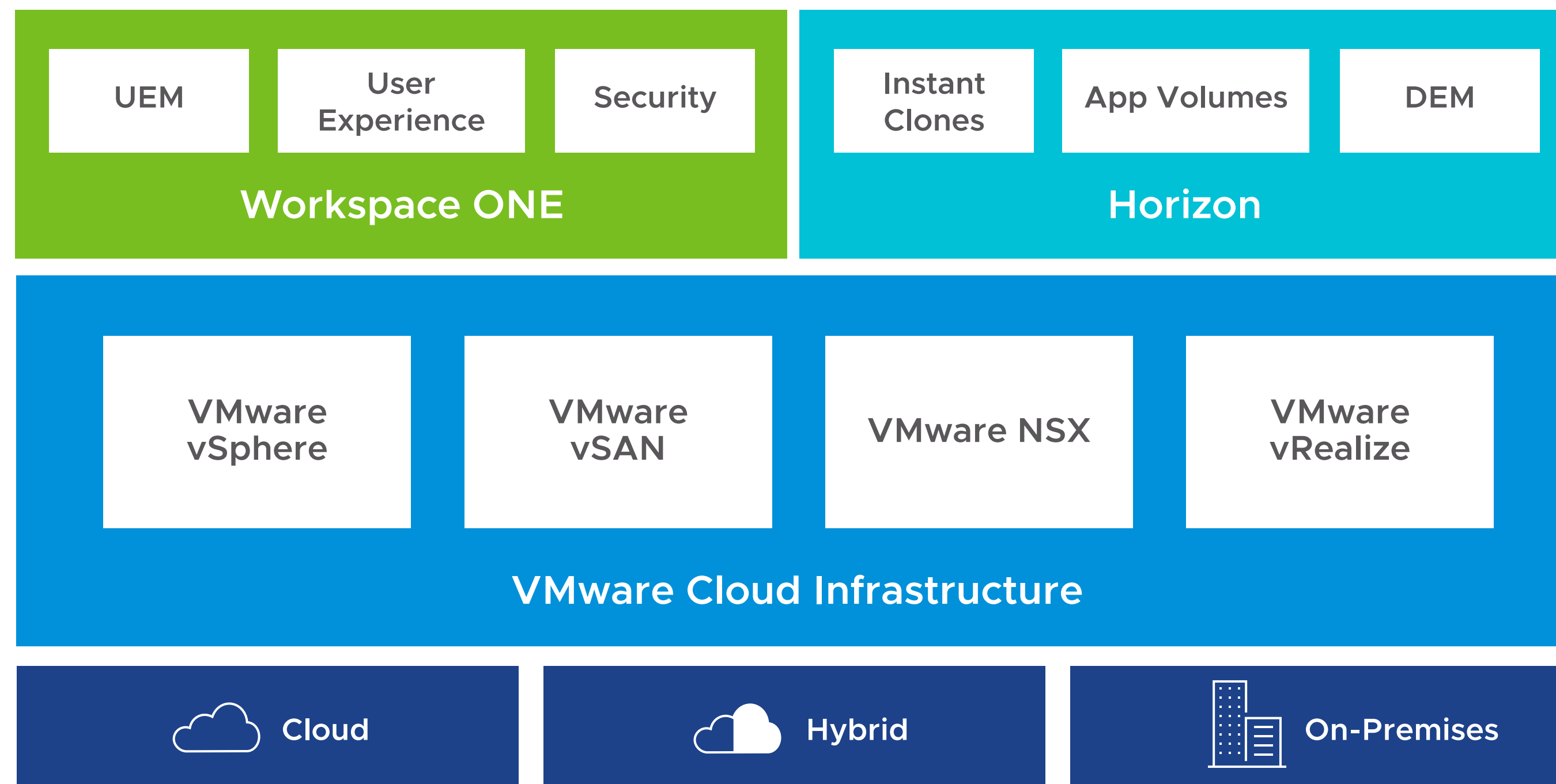
| Workspace ONE | | | Horizon | | |
|---|---|---|---|---|---|
| UEM | User Experience | Security | Instant Clones | App Volumes | DEM |

**VMware Cloud Infrastructure**

| VMware vSphere | VMware vSAN | VMware NSX | VMware vRealize |
|---|---|---|---|

| ☁ Cloud | ☁ Hybrid | 🏢 On-Premises |
|---|---|---|

FIGURE 1: The VMware technology ecosystem helps you create a digital foundation for the future.

**LEARN MORE**
*Carl Webster on VMware VDI: What I Learned After 6 Weeks of Testing Horizon*

Check out an independent look at VMware Horizon through fresh eyes.

# Make the Move to VMware

Some admins are struggling to succeed—specifically those who are striving to provide remote desktops and apps with the same virtualization solutions they deployed for a predominantly in-office workforce. Citrix users, for example, may struggle with management complexity, security concerns, or other aspects of a legacy desktop virtualization platform.[1,2,3]

If you're running a Citrix environment on VMware Cloud Infrastructure today, then you're realizing the benefits of a best-in-class virtualization platform but aren't taking advantage of the integrations with Horizon. You're not leveraging the deep technology ecosystem and expertise that's needed to extend the digital workspace to all apps in an intrinsically secure manner, simplify management, and enable user productivity.

This integration, along with the broader capabilities of VMware End-User Computing that include app modernization, intrinsic security, and unified endpoint management, are reasons why organizations look to VMware to guide them on their digital transformation journey. You, too, can rely on VMware solutions to help accelerate innovation and maximize ROI.

Around the world, IT admins have found that when it comes to making a distributed workforce work, there are three key reasons to leave a legacy Citrix environment behind:

1.  VMware is the digital foundation for the future.

2.  VMware stands for security that is built in, not bolted on.

3.  VMware enables you to modernize your legacy desktop virtualization platform.

"Many healthcare organizations use Citrix to distribute Epic to their end users. We're able to save millions of dollars by going with VMware RDSH."

MATTHEW DOUGLAS
CHIEF ENTERPRISE ARCHITECT
SENTARA HEALTHCARE

Learn more at *https://via.vmw.com/sentara*.

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1.  CPO Magazine. "*Massive Citrix Data Breach Thought to be the Work of Iranian Hackers*." Scott Ikeda, March 2019.
2.  Tripwire, Inc. "*Citrix NetScaler CVE-2019-19781: What You Need to Know*." Craig Young, January 2020.
3.  Cyberscoop. "*New round of bugs found in Citrix software, but this time a patch is ready*." Sean Lyngaas, July 2020.

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# 1. VMware is the digital foundation for the future.

Horizon was designed from the ground up to be fully integrated and interoperable with the entire ecosystem of market-leading VMware technologies. Combining VMware Cloud technologies with Horizon enables organizations to realize the benefits of Horizon and Horizon Cloud deployed on VMware Cloud Infrastructure—from core server virtualization with vSphere, to storage tie-ins with vSAN, to integrations at the network layer with NSX. With Horizon at the helm, you can build a flexible, scalable infrastructure, implement intrinsic security, and create ready-to-work experiences across every app and endpoint—physical or virtual. You can also use it as a way to start on the move to unified endpoint management with VMware Workspace ONE®.

With VMware, you can

### Provision and manage with speed and ease
Horizon makes it possible to rapidly provision full-featured, personalized virtual desktops and apps, and save even more time with simplified Day 2 management of images, apps, profiles and policies. Horizon provides a cloud native control plane operated as a managed service and consistent hybrid management services across on-premises and cloud deployments.

One of the many breakthrough benefits of Horizon comes from advanced Instant Clone Technology, a feature that VMware continues to innovate in order to continue speeding up the process of creating and delivering VMs.

Instant Clone Technology, which is included with all applicable Horizon environments—on-premises or in the cloud—gives you the ability to quickly and easily build and deploy desktop images to quickly scale and meet changing business continuity needs. Additionally, Instant Clones requires less storage and results in lower costs overall than traditional image management techniques.

### Automate and scale the delivery of virtual desktops and apps
Many digital workspace strategies that drive business continuity, disaster recovery and remote work use cases rely on virtual desktops and apps. VMware Horizon features a cloud native control plane and service-based management tools to help you deliver desktops and apps from any environment to users anywhere. Deployment options span traditional VDI and apps delivered on-premises to desktop as a service (DaaS) delivered through Horizon Cloud on Microsoft Azure.

## Provide an integrated, intrinsically secure experience that is second to none

Leverage the power of these interoperable, market-leading VMware technologies:

- **VMware Workspace ONE and Horizon** – Provide users with the most flexible, more secure platform so they can remain safe and productive as the workplace continues to evolve with the unparalled hybrid capabilities of VMware Horizon and VMware Workspace ONE. VMware was named a Leader in the 2020 Gartner Magic Quadrant for UEM[4] and received the highest scores in three of the four use cases in the related Critical Capabilities for Unified Endpoint Management Tools.[5]

- **VMware Cloud Foundation** – Deliver a complete solution for VDI deployments at scale. Simplify planning and design with a standardized and tested solution fully optimized for VDI workloads. By delivering Horizon virtual desktops through Cloud Foundation, IT will accelerate desktop and application deployment by automating infrastructure and scaling rapidly with lower RCO to deliver the agility required by today's businesses.

- **VMware NSX for Horizon** – Provides fast and simple VDI networking, automated policy that dynamically follows end users and desktops, and a platform for advanced security. The result is an extensible platform that can be integrated with best-in-class capabilities from an established ecosystem of security partners.

- **VMware NSX® Advanced Load Balancer™** – Simplify and accelerate Horizon deployments with global and local load balancing and analytics.

- **VMware SD-WAN™ by VeloCloud®** – Improve end-user experience for employees working from anywhere with VMware SD-WAN. It's the ideal choice for enabling high performance and providing reliable branch access to cloud services, private data centers, and SaaS-based enterprise apps. VMware was also named a Gartner 2020 Magic Quadrant Leader for WAN Edge Infrastructure.[6]

- **VMware Carbon Black** – Address known and unknown threats using big data analytics with VMware Carbon Black Cloud,™ a leader in endpoint security and creator of the application control and endpoint detection and response (EDR) categories.
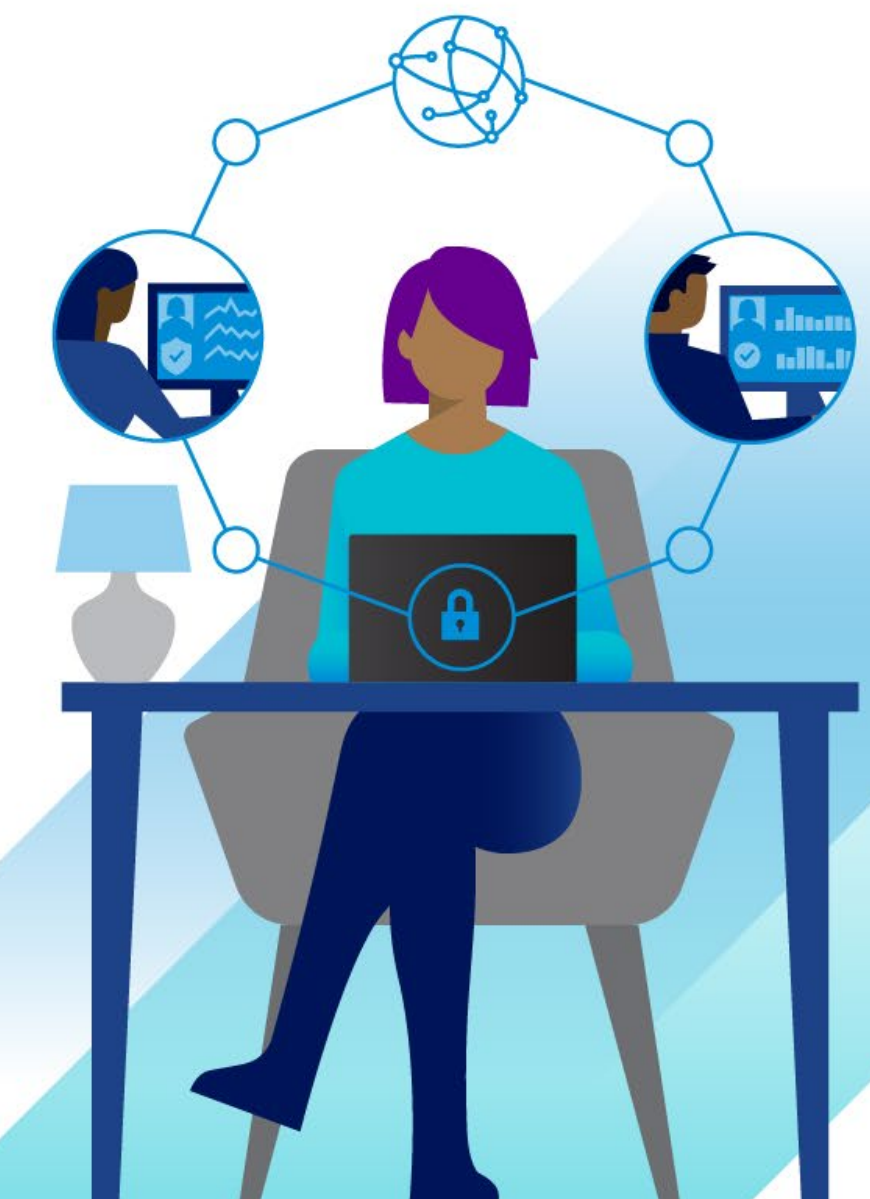
4. Gartner, Inc. "Magic Quadrant for Unified Endpoint Management." August 10, 2020.
5. Gartner, Inc. "Critical Capabilities for Unified Endpoint Management Tools." August 18, 2020.
6. Gartner, Inc. "Magic Quadrant for WAN Edge Infrastructure." September 23, 2020.

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# 2. VMware stands for security that is built in, not bolted on.

The distributed workforce has created a network without a security perimeter. Most users are outside of the firewall, which means admins must rely on usernames and passwords to protect data and apps.

VMware has made security intrinsic to the platform. With security at every level, including the network, endpoint, cloud, identity, and workload, VMware can significantly reduce the attack surface of your critical systems and applications. Virtual desktops and apps have intuitive security from the client to the workload, and can also be better secured with a virtual networking portfolio and cloud native endpoint protection.

With VMware, you can

• Reduce the number of security agents and vendors across devices for both endpoints and virtual desktops.

• Get deeper insights by leveraging deep security integration at all levels from the underlying infrastructure to endpoints.

• Simplify deployments and improve performance.

Security solutions that only VMware offers include

**Zero Trust security controls**
Isolating and modernizing traditional apps requires a technology that allows the creation of a bridge between a traditional architecture and one that's based on Zero Trust. *VMware Horizon virtual desktops and published apps act as this bridge.*

With Workspace ONE UEM, you can build trust in devices that are accessing enterprise data, better secure them with *Carbon Black Cloud Endpoint* solutions, and then drive dynamic conditional access decisions to validate

user identity. The VMware Unified Access Gateway™ (UAG) protects user sessions and devices by using least-privilege capabilities to enable your users to access only what they need to be productive. Integration with VMware Horizon ensures that all connections to desktops and apps are more secure, controlled and validated with a single platform. Additionally, UAG can leverage the VMware Secure Access Service Edge (SASE) Platform to layer in additional network and cloud security technologies such as VMware NSX microsegmentation, IDS/IPS, and more to offer a convergent infrastructure with end-to-end Zero Trust security.

**LEARN MORE**
See how Horizon enables *Zero Trust Security*.

Explore how to establish *Zero-Trust security with VMware Workspace ONE* so you can empower your workforce wlth the technologies they need.

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## Intrinsically secure VDI

*VMware Workspace Security VDI*, which sets the standard for intrinsically secure virtual desktops in the industry, is an integrated solution built on Horizon VDI and the Carbon Black Cloud. Carbon Black innovation strengthens Horizon by providing endpoint security capabilities in multiple categories, including threat identification, detection and response; auditing capabilities; and the ability to investigate data breaches.

Whereas most solutions of this stature are comprised of multiple point products from disparate vendors that creates sprawl, complexity and complications, Workspace Security VDI delivers a cohesive, intrinsically secure virtual desktop and application solution, helping to reduce sprawl and complexity.

## Next-generation endpoint detection and response

Endpoint security that adapts to modern threats is a must-have for protecting virtual desktops and apps. Carbon Black boasts next-generation antivirus capabilities, as well as behavioral endpoint detection and response to better secure virtual desktops and apps running on Horizon.

## Out-of-the-box security from the client to the workload

With Horizon, virtual desktops and apps have out-of-the-box security from the client to the workload, which can be even further secured through a virtual networking portfolio and cloud native endpoint protection.

## More secure, optimized remote user access

The growing need for Zero Trust networks means that admins need to control device access to specific apps or containers from a variety of endpoints, including personal devices. VMware Secure Access is a component of SASE that brings remote users into the SD-WAN fabric for a better, more consistent experience and to enable secure, optimized access.

*VMware Secure Access* leverages Workspace ONE Zero Trust capabilities and operates as a Zero Trust Network Access technology that enables robust secure access to all users irrespective of the network and device they are logging in from. By further tying this to the VMware SASE platform, all traffic originating from a device or user can be further inspected with network and cloud security technologies and routed optimally for best performance and security.

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# 3. VMware enables you to modernize your legacy desktop virtualization platform.

With Horizon, you can continue to deploy the same apps and desktops you do today, while taking advantage of the unique capabilities available via integration with the VMware Cloud Infrastructure and the greater VMware End-User Computing (EUC) vision.

When you upgrade your Citrix environment to VMware Horizon, you'll get Instant Clone Technology, which leverages Horizon's deep integration with the VMware Cloud Infrastructure platform to dramatically simplify image management and reduce the amount of time to deploy virtual machines to just seconds per VM. You'll benefit from industry-leading features like VMware App Volumes,™ an easy-to-implement application management platform, and VMware Dynamic Environment Manager,™ an advanced user environment management solution. And, you can rest assured knowing your users are using the VMware Blast Extreme protocol, which automatically adapts to fluctuating network conditions.

Most importantly, you'll be able to take advantage of these capabilities anywhere, on-premises or in the cloud, because VMware Horizon is a modern platform that has been built for hybridity. With the cloud native Horizon Control Plane, you'll be able to put virtual apps and desktops anywhere, from the VMware Cloud Foundation infrastructure that runs on-premises to VMware Cloud™ on AWS, VMware Cloud on Dell EMC, Google Cloud, IBM Cloud, and Microsoft Azure.

With one provider delivering all aspects of your environment, you'll benefit from unparalleled integration and support in addition to tools and features that streamline the maintenance of your environment. And you'll take comfort in this time as a result of VMware's excellent security protocols. Finally, flexible licensing options are designed to meet your unique needs.

**3 of the Top 5 Global Banks** transitioned their legacy Citrix environment with the VMware Horizon platform:

- Horizon virtual desktops and apps provisioned for 200,000+ end users.
- In one bank, investments made in Horizon helped navigate shelter-in-place restrictions to support remote access for 80% of their workforce.

# Join VMware on the Journey to a Brighter Future

VMware's continued focus on innovating technologies to support the evolving needs of a distributed workforce is a key reason why leading organizations consider VMware a partner rather than a vendor.

With Horizon, and the broader Workspace ONE platform, VMware is driving the future of digital transformation by providing an integrated solution that features unified endpoint management, workspace intelligence, intrinsic security, and desktop virtualization.

And with VMware Cloud, organizations can deliver the hybrid cloud as a platform to support all workloads across all major public clouds: AWS, Microsoft Azure, Google Cloud, and IBM Cloud.

Meet distributed workforce challenges and take advantage of opportunities now and in the future.

To find out how you can transform your legacy environment, check out the following resources or contact your local VMware representative or partner:

*Explore business continuity solutions for end-user computing >*

*Learn more about how to put your Citrix struggles behind you >*

**vmware**®