Workspace Security VDI

Zero Trust Security for Horizon Virtual Desktops and Apps

WHAT'S NEW

New VMware Workspace Security VDI delivers a cohesive, intrinsically secure virtual desktop and application solution that has been built and fully tested by a single vendor. It is available as a subscription offering that provides a single, flexible entitlement to all Horizon technology, services and deployment options: on-premises, in the cloud, or for hybrid and multi-cloud use cases.

AT A GLANCE

VMware Workspace Security VDI delivers a more secure virtual desktop and application solution available for the distributed workforce by combining *VMware Horizon* and *Carbon Black Cloud* into a single, unified solution. VMware Horizon is a market-leading, modern platform for secure delivery of virtual desktops and apps across the hybrid cloud. With next-generation endpoint protection from VMware Carbon Black, IT can further improve security and help provide a Zero Trust access security model across users, apps and endpoints that empowers employees.

With the shift to a distributed workforce, desktop and application virtualization have been recognized as key technologies to enable end users to securely access corporate applications and data from any device and location. This accessibility, coupled with a *dramatic rise in cyberattacks*, requires the highest levels of security, which is complicated by distributed and increasingly complex environments. To keep up with these growing threats, organizations are employing a Zero Trust approach to security that incorporates device state, location and user behavior information to determine which, if any, corporate resources a user should be able to access in any given access scenario and time.

Desktop and application virtualization have enabled organizations to reduce operational management costs, while providing high levels of control necessary to ensure compliance and achieve the highest security standards by keeping sensitive corporate apps and data in the data center and off the endpoint. But despite the inherently secure nature of virtual desktops and applications, just as for traditional desktops, there are still additional capabilities that can further improve security, without compromising end-user experience.

VMware Workspace Security VDI

VMware Workspace Security VDI delivers a highly secure virtual desktop and application solution for the distributed workforce by combining *VMware Horizon®* and *VMware Carbon Black Cloud* into a single, unified solution. VMware Horizon is a market-leading, modern platform for secure delivery of virtual desktops and apps across the hybrid cloud. Innovative technology leadership from *VMware Carbon Black* strengthens the combined solution with endpoint security capabilities in multiple categories, including threat identification, detection and response, auditing capabilities, and the ability to investigate data breaches. These capabilities are typically point solutions purchased separately, which often lead to a familiar sprawl of agents, vendors, integration testing, updates, and patching issues that IT departments are being challenged to eliminate. Alternatively, Workspace Security VDI delivers a cohesive, intrinsically secure virtual desktop and application solution across the hybrid cloud that has been designed and fully tested by a single vendor.

BENEFITS

- Single-vendor solution, tested and supported by VMware.
- Comprehensive endpoint solution with a single console to streamline routine operations and eliminate multiple security point products.
- Holistic approach leverages machine learning and behavioral models to not only detect and block attacks but also predict ones that have never been seen before.
- Agentless operation provides unique anti-tamper capabilities and removes deployment overhead.
- Provides fast, easy access to system state information to make quick, confident actions that harden systems and improve security posture.

With VMware Tools integration, the agentless Carbon Black sensor enhances simplicity and security

Carbon Black delivers agentless operation on vSphere with the automated download and launch of the Carbon Black Sensor directly from *VMware Tools*™, providing unique anti-tamper capabilities and removing deployment overhead. For nonpersistent desktops, the sensor is installed on the golden image and automatically launched during the provisioning of the nonpersistent desktop. This sensor is all that is required to secure the Horizon virtual desktops and RDS hosts as well as the infrastructure, giving security and IT admins a single deployment and unified view across Horizon deployments on-premises and in the cloud, which streamlines routine operations.

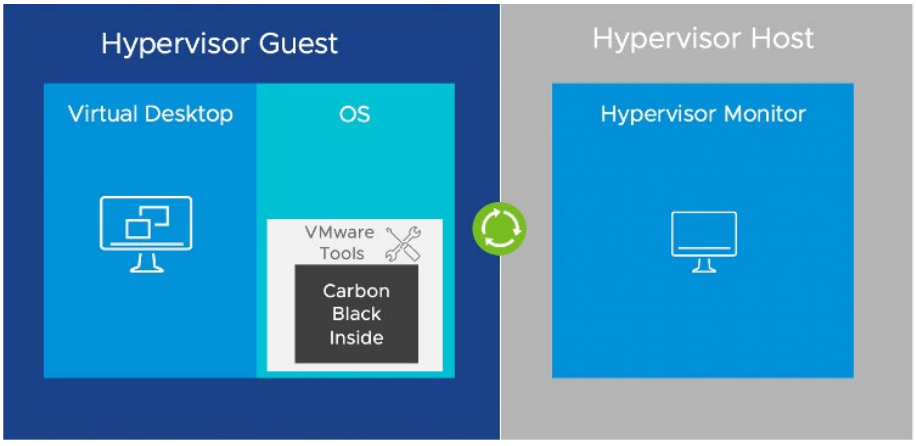


FIGURE 1: Carbon Black delivers agentless operation with the integration of the Carbon Black Sensor directly into VMware Tools.

New, advanced level of endpoint security protection

Workspace Security VDI includes *Next Generation Antivirus (NGAV) from Carbon Black*, which employs Behavioral Endpoint Detection and Response (VMware Carbon Black® EDR™) to provide multilayer protection for Horizon virtual desktops and applications. Traditional antivirus solutions focus on signature-based attacks, and today's attackers can easily bypass these solutions with macro-based and memory-based attacks and highly developed tools that target vulnerabilities associated with PowerShell scripting and remote logins. VMware Carbon Black Cloud™ takes endpoint security protection to a new, advanced level by analyzing

entire event streams across files, processes, applications, and network connections. This holistic approach to data collection powers machine learning and behavioral models to not only detect and block attacks but also predict ones that have never been seen before. By leveraging policy-based controls, administrators can fine-tune their security environment, further enhancing the overall security posture of the organization.

These technologies help companies identify patterns as well as Tactics, Techniques and Procedures (TTPs) that may be suspicious and turn them into attack visualizations that incident responders can use to quickly respond. To remediate from anywhere in the world via the Carbon Black Cloud, a secure connection to the infected desktop can be created to pull or push files, kill processes, and perform memory dumps. Or in the case of an infected desktop that is based on VMware nonpersistent Instant Clones technology, it can simply be destroyed and a new one immediately spun up from a known good image.

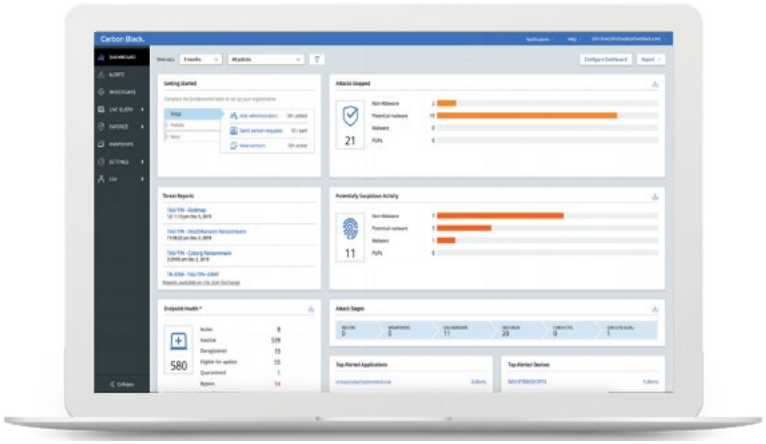


FIGURE 2: Using the VMware Carbon Black Cloud universal console, the solution applies behavioral analytics to events to streamline detection, prevention, and response to cyberattacks.

Real-time audit and remediation

VMware Carbon Black® Cloud Audit and Remediation™ is a real-time audit and remediation solution that gives both IT and SecOps teams faster, easier access to real-time virtual desktop data with the ability to change the system state of virtual desktops or endpoints across their organization. By providing administrators with real-time query capabilities from a cloud native endpoint protection platform, Audit and Remediation enables teams to make quick, confident decisions to harden systems and improve security posture. Unlike competing solutions, it provides the evidence that systems are configured and patched according to industry standards, which is required in highly regulated industries. Audit and Remediation closes the gap between security and operations, allowing administrators to perform full investigations and take action to remotely remediate endpoints all from a single solution.

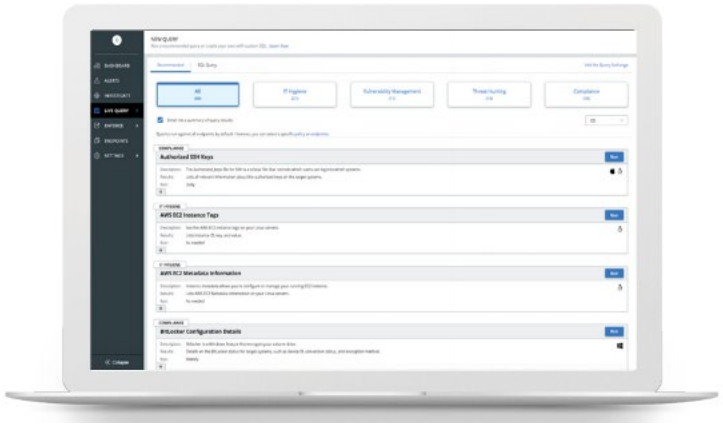
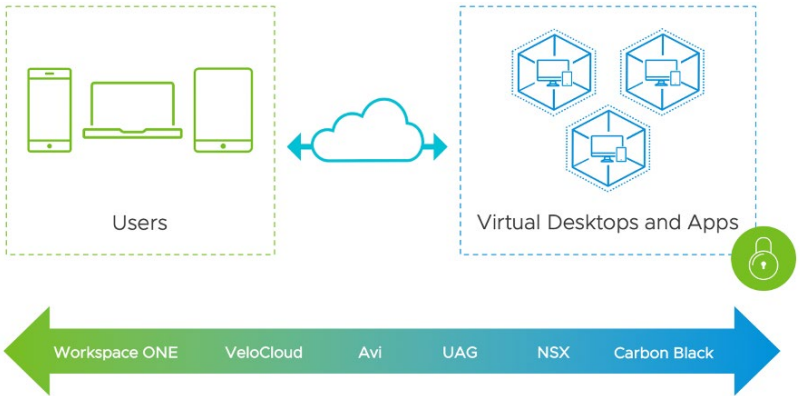


FIGURE 3: Audit and Remediation gives administrators the ability to easily create custom queries and return results from across all endpoints in their environment to a single cloud-based console.

Enable your future ready workforce with enhanced Zero Trust security

Workspace Security VDI delivers a highly secure desktop and application virtualization solution that consolidates multiple endpoint security capabilities into a cohesive solution that has been tested end to end. Compared to legacy solutions, this modernized, lightweight approach significantly improves performance and protects against a new wave of attack vectors that traditional antivirus solutions cannot detect.

By leveraging the rich VMware ecosystem, Workspace Security VDI can be incorporated in a broader security program that intrinsically layers security solutions from the endpoint to the cloud, across networking and data center workloads. For example, VMware Workspace ONE® Access™ establishes and verifies end-user identity with multifactor authentication, and serves as the basis for conditional access and single sign-on for Horizon virtual desktops and apps. Additional security features are woven into VMware technologies across the network and supported by Horizon, such as network micro-segmentation with *VMware NSX®*, software-defined load balancing with *VMware NSX® Advanced Load Balancer™ (Avi Networks)*, secure remote access with *VMware Unified Access Gateway™ (UAG)*, and high-performance branch access with *VMware SD-WAN by Velocloud®*. These intrinsic elements help implement a Zero Trust security model across users, devices, networks and data that empowers employees without sacrificing security.



FIND OUT MORE

For more information, visit *https://www.vmware.com/security/workspace-security.html*.
For information or to purchase VMware products, call 877-4-VMWARE, visit *www.vmware.com*, or search online for an authorized reseller. For detailed specifications and requirements, refer to the product documentation.

Make the Move Today

VMware Workspace Security VDI is available as a subscription offering, which provides a single, flexible entitlement to all Horizon technology, services and deployment options: on-premises, in the cloud, or for hybrid and multi-cloud use cases. You can choose from these subscription licenses:

VMware Workspace Security VDI Audit

- **VMware Workspace Security VDI Audit with Horizon Universal Subscription** – Horizon desktop and application delivery for on-premises or cloud deployment and Carbon Black Audit and Remediation
- **VMware Workspace Security VDI Audit with Horizon Subscription** – Horizon desktop and application delivery for cloud deployment and Carbon Black Audit and Remediation

VMware Workspace Security VDI Essentials

- **VMware Workspace Security VDI Essentials with Horizon Universal Subscription** – Horizon desktop and application delivery for on-premises or cloud deployment and Carbon Black Next Generation Antivirus (NGAV) and Behavioral Endpoint Detection Response (Carbon Black EDR)
- **VMware Workspace Security VDI Essentials with Horizon Subscription** – Horizon desktop and application delivery for cloud deployment and Carbon Black Endpoint Standard, which includes Next Generation Antivirus (NGAV) and Behavioral Endpoint Detection Response (Carbon Black EDR)

VMware Workspace Security VDI Advanced

- **VMware Workspace Security VDI Advanced with Horizon Universal Subscription** – Horizon desktop and application delivery for on-premises or cloud deployment and Carbon Black Next Generation Antivirus (NGAV), Behavioral Endpoint Detection Response (Carbon Black EDR) and Carbon Black Audit and Remediation
- **VMware Workspace Security VDI Advanced with Horizon Subscription** – Horizon desktop and application delivery for cloud deployment and Carbon Black Next Generation Antivirus (NGAV), Behavioral Endpoint Detection Response (Carbon Black EDR) and Carbon Black Audit and Remediation

Workspace Security VDI is eligible for the *Subscription Upgrade Program for Horizon (HSUP)*. In addition, Carbon Black Cloud supports Horizon perpetual deployments and may be purchased separately.