

# Planning guide: migrating from OmniSSA Horizon to Azure Virtual Desktop with Nerdio Manager

---

Key differences and factors to consider  
before making the move

# Contents

Introduction	03
Why now? The business case for moving to Azure Virtual Desktop with Nerdio Manager	04
Assessing the business value of the migration	07
Common architecture of Omnissa Horizon	09
Desired state: Azure Virtual Desktop with Nerdio Manager	09
Key differences: architecture components	11
Key differences: licensing	13
Key differences: protocol	15
Key differences: image management	16
Addressing common migration concerns	18
Conclusion and authors	19

# Introduction

**The end-user computing (EUC) industry has experienced some pivotal changes in the past few years, prompting many organizations to reassess their virtual application and desktop strategies.**

Omnicore Horizon, previously VMware Horizon or the app and desktop virtualization component of VMware Workspace ONE, has long been recognized as a leader in the desktop as a service (DaaS) and virtual client computing market by industry analyst firms.

While it was historically considered status quo to replace the fundamental components of Microsoft's remote desktop technology components with solutions from Omnicore Horizon, those historical assumptions are no longer holding true. In more recent years, Microsoft's Azure Virtual Desktop (AVD) technology, including the AVD aspects that act as the foundation for Windows 365, have evolved quickly, and Microsoft has emerged as a compelling option for organizations seeking greater flexibility, scalability, and integration in the modern cloud era.

## Why move desktops from legacy VDI to native cloud?

The EUC market is starting to see a shift away from legacy VDI vendors, such as Omnicore Horizon, with a movement towards native Azure Virtual Desktop capabilities alongside IT management tools like Nerdio Manager. That joint combination of Microsoft and Nerdio helps organizations optimize their Azure consumption, streamline the day-to-day operations of desktop image management, and simplify access to real-time analytics that ensure environments are delivering an optimal user and IT admin experience.

While the migration process away from a legacy VDI vendor like Omnicore Horizon to Azure Virtual Desktop with Nerdio Manager can be a difficult decision, the long-term benefits commonly associated with licensing cost savings, simplified infrastructure management, and technology integration across the Microsoft stack outweigh the short-term migration investment.

This guide can help IT decision makers assess the level of effort associated with the migration stages, key considerations as it relates to each stage of the migration process, and how to evaluate and assess the business and technology benefits of moving from Omnicore Horizon to Azure Virtual Desktop with Nerdio Manager.

## Why now? The business case for moving to Azure Virtual Desktop with Nerdio Manager

Any successful migration from Omnissa Horizon to Azure Virtual Desktop with Nerdio Manager should begin with a clear business case, not just a technical plan. Most organizations have internal expertise in VMware and Omnissa technology that is long established and software agreements that can run the course of multiple years. That's why it is important for organizations to act now and understand the business case for the migration, ensuring that key stakeholders are aligned on why the move matters, what a successful migration looks like, and how the value of the migration will be measured. This can be broken down into multiple categories, such as:

**Cost reduction:** Many organizations are looking to make the move to AVD with Nerdio Manager based on the potential cost savings. To assess those savings, organizations will want to have a good understanding of their current Omnissa Horizon environment costs as they relate to infrastructure, Omnissa licensing, Microsoft licensing, endpoint devices, user training, and IT administration costs as they relate to the migration as well as day-to-day operations.

Today, organizations are likely paying for native Azure Virtual Desktop capabilities, then paying again to replace those AVD components with Omnissa components (ex. AVD Broker vs. Horizon Broker). There are also Microsoft licensing benefits in Azure, such as Windows 11 Enterprise multi-session, that no longer require the RDS CAL/SAL license.

**Existing Nerdio Manager and Azure Virtual Desktop customers have reported the following cost savings compared to Omnissa Horizon-style environments: Moving an organization from VMware Horizon-style environments to AVD with Nerdio optimization reduces costs from roughly \$66 to about \$15 per month per user.<sup>1</sup>**

<sup>1</sup> <https://vmblog.com/archive/2025/04/09/cpc-chief-strategy-officer-reveals-microsoft-avd-cost-savings-nerdio-nvp-benefits-nerdiocon-2025.aspx>

**Operational efficiency:** Although existing expertise in Omnisca Horizon and vSphere technology within your organization maybe very prevalent today, making the move to Azure Virtual Desktop with Nerdio Manager applies the same basic principles, and moving to AVD with Nerdio Manager has proven to simplify and streamline ongoing operations. To establish the operational efficiency benefits of the migration, quantify how automation and simplified management workflows reduce IT effort and support costs.

Once the learning curve of Nerdio Manager and Azure Virtual Desktop is conquered, organizations have reported the following operational efficiency savings: Noah Estes, Operating System Network Analyst at Oregon State University's (OSU) College of Business, saw an operational efficiency improvement of 40% when moving from Omnisca Horizon to Nerdio Manager and Azure Virtual Desktop.<sup>2</sup>

**Risk reduction:** Cloud desktops have become a cornerstone of many organizations' security strategies, and while the cost of a security breach is something no organization wants to face, proactive measures ensure the right level of security and compliance are a key element of any cloud desktop solution. When making the decision to migrate to a new technology, your organization requires assurance that the same or better security standards are in place.

While Omnisca Horizon is a SaaS platform that requires its own security and compliance certifications, Azure Virtual Desktop is a native Azure service that inherits the security benefits of Azure. Nerdio Manager is installed within your organization's Azure subscription, thereby inheriting the same security controls as your Azure tenant.<sup>3</sup>

<sup>2</sup> "We're saving at least 40% of our time, and it's changed our work-life balance." <https://getnerdio.com/customer-story/oregon-state-universitys-college-of-business-shifts-to-smart-lab-management-with-nerdio-and-avd/>

<sup>3</sup> <https://nmmhelp.getnerdio.com/hc/en-us/articles/26125586059661-Does-Nerdio-Manager-Store-Customer-Information>

**Scalability & agility:** The business benefits of cloud computing are plentiful and commonly one of the biggest drivers in the decision to migrate. Whether it's making the move from a capital expense to an operating expense, scaling resources on demand based on business need, or the enhanced global availability of resources as your organization drives growth, the ability to scale your AVD and Nerdio Manager instances in the cloud is likely a top business driver.

**During the COVID-19 pandemic, higher education needed to quickly pivot and scale IT environments for remote students and instructors. Even under rapidly changing circumstances brought on by the pandemic, Velocity was able to use Nerdio Manager for Enterprise and the Microsoft stack of technologies to deploy a proof-of-concept within twenty-four hours for a complete re-platforming of Bsix Brooke House College's core systems from an on-premises architecture to a cloud-based architecture.<sup>4</sup>**

**Executive alignment:** Executive leadership constantly balances competing project priorities, but an unexpected subscription or licensing price increase in an existing solution can abruptly adjust priorities under increased pricing pressures. It is important that organizations know their renewal dates as well as potential pricing or licensing changes for any upcoming Omnissa Horizon subscription and/or VMware vSphere subscriptions well in advance of their renewal dates to ensure they can adequately plan for a migration.

**TechRadar.com recently reported, "Broadcom has allegedly increased VMware licensing costs by 8-15 times for many customers after eliminating perpetual and pay-as-you-go licenses, replacing them with bundled subscriptions that require a three-year minimum contract."<sup>5</sup>**

<sup>4</sup> <https://getnerdio.com/customer-story/nerdio-manager-for-enterprise-case-study-velocity-eu/>

<sup>5</sup> <https://www.techradar.com/pro/broadcom-has-allegedly-hiked-vmware-costs-between-800-and-1-500-percent>

# Assessing the business value of the migration

To assess the business value of the migration, it is important to have an understanding of some key metrics before you begin. Here are some key metrics to capture before and after your migration process to demonstrate the business value of the migration project:

Business value bucket	Key metrics to measure	Before vs. after comparison	Business impact/outcome
<b>Cost reduction</b>	<ul style="list-style-type: none"> <li>Average virtual desktop cost per user/month</li> <li>On-premises vSphere/server compute hours/unused capacity</li> <li>Cloud: Compute hours versus usage</li> <li>Infrastructure CapEx avoided/hardware depreciation schedule</li> <li>Omnissa Horizon/Workspace One licensing &amp; support costs retired</li> <li>Microsoft (RDS or AVD) licensing &amp; support costs retired</li> <li>Nerdio Manager licensing &amp; support costs</li> </ul>	<ul style="list-style-type: none"> <li>Always-on capacity vs. Nerdio Manager auto-scaled workloads               <ul style="list-style-type: none"> <li>(*Note, benefits are applicable to cloud and on-premises infrastructure, with cloud savings being more advantageous)</li> </ul> </li> <li>Fixed infrastructure licensing &amp; hardware vs. consumption-based cloud spend</li> <li>Omnissa + Microsoft licensing versus AVD + Nerdio Manager licensing</li> <li>Regular hardware refresh vs. cloud elasticity</li> </ul>	<ul style="list-style-type: none"> <li>% reduction in total cost of ownership (TCO)</li> <li>Annualized cost savings (Omnissa versus Nerdio)</li> <li>Annualized cost savings (Microsoft licensing)</li> <li>Capital Expense versus Operation Expense benefits.</li> </ul>
<b>Operational efficiency</b>	<ul style="list-style-type: none"> <li>IT admin hours per month (per 100/1,000 users)</li> <li>Time to provision desktops/applications to new users</li> <li>Patch cycles and time per cycle</li> <li>Virtual Desktop-related helpdesk tickets</li> <li>Mean Time to Resolution (MTTR) for VDI-related tickets</li> </ul>	<ul style="list-style-type: none"> <li>Manual processes vs. automation</li> <li>Multiple consoles vs. centralized management</li> <li>Reactive support vs. proactive monitoring</li> </ul>	<ul style="list-style-type: none"> <li>Time savings associated with IT administrative workflows</li> <li>Increased speed of onboarding/offboarding new users/contractors, etc.</li> <li>Time/cost savings associated with virtual desktop support burden</li> </ul>
<b>Risk reduction</b>	<ul style="list-style-type: none"> <li>Desktop-related security incidents</li> <li>Time to enforce security policies</li> <li>Audit preparation hours</li> <li>Compliance findings/exceptions</li> <li>Patch compliance rate</li> </ul>	<p>Primarily focus on tool comparison and ease/confidence in usage:</p> <ul style="list-style-type: none"> <li>Identity and access control in Entra ID versus native Horizon/Workspace ONE tools/IDP integrations</li> <li>Threat detection and monitoring tools</li> <li>Audit, logging, and compliance tools</li> <li>Protocol security encryption levels and controls</li> </ul>	<ul style="list-style-type: none"> <li>Lower security risk exposure, fewer third-party tools, tighter Microsoft stack integration, more granular Nerdio Manager access controls</li> <li>Reduced audit effort, through the simplification of data gathering from multiple vendors</li> <li>Compliance cost avoidance, based on centralized logs, policies and reports</li> </ul>



Business value bucket	Key metrics to measure	Before vs. after comparison	Business impact/outcome
<b>Scalability &amp; agility</b>	<ul style="list-style-type: none"> <li>• Time to onboard/offboard users and/or infrastructure capacity</li> <li>• Time to deploy new desktops/applications</li> <li>• Idle capacity during off-peak hours</li> <li>• Support incidents related to capacity issues</li> <li>• End-users supported per IT admin</li> </ul>	<ul style="list-style-type: none"> <li>• Static capacity vs. dynamic auto-scaling</li> <li>• Days/weeks vs. minutes/hours to deploy new users/desktops/applications</li> <li>• Growth requiring headcount vs. automation</li> </ul>	<ul style="list-style-type: none"> <li>• Faster response to business demand (remote work, project-based users, mergers &amp; acquisition efforts, etc.)</li> <li>• Scale user base without a proportional cost and/or staffing increases to handle the new/expanded user base</li> </ul>
<b>Executive prioritization &amp; sponsorship</b>	<ul style="list-style-type: none"> <li>• Number of IT resources to support new or project-based initiatives</li> <li>• Budget variance vs. forecast (key reference to Omnissa and VMware license renewal costs)</li> <li>• Projected budget versus actual budget for virtual/cloud desktops</li> <li>• Cost transparency and reporting</li> <li>• Alignment to business KPIs</li> </ul>	<ul style="list-style-type: none"> <li>• Unpredictable renewals vs. transparent consumption spend</li> <li>• Reactive decision-making (renewal timing) vs. proactive planning (migration planning before renewal date)</li> </ul>	<ul style="list-style-type: none"> <li>• Stronger executive buy-in (proactive awareness and planning versus reactive/time-pressure execution)</li> <li>• Anticipated IT spend versus actual IT spend and overall business outcomes</li> </ul>





## Common architecture of Omnisca Horizon

There are a variety of ways to deploy Omnisca Horizon across on-premises and cloud infrastructure with varying degrees of configurations based the type of desktop or application (Windows or Linux), physical or virtual, or infrastructure location (Horizon 8 on supported cloud platforms, including VMware Cloud on AWS, Azure VMware Solution, Google Cloud VMware Engine, Oracle Cloud VMware Solution, and Alibaba Cloud VMware Service). This image is simply to serve as a frame of reference based on a common deployment scenario.<sup>6</sup>

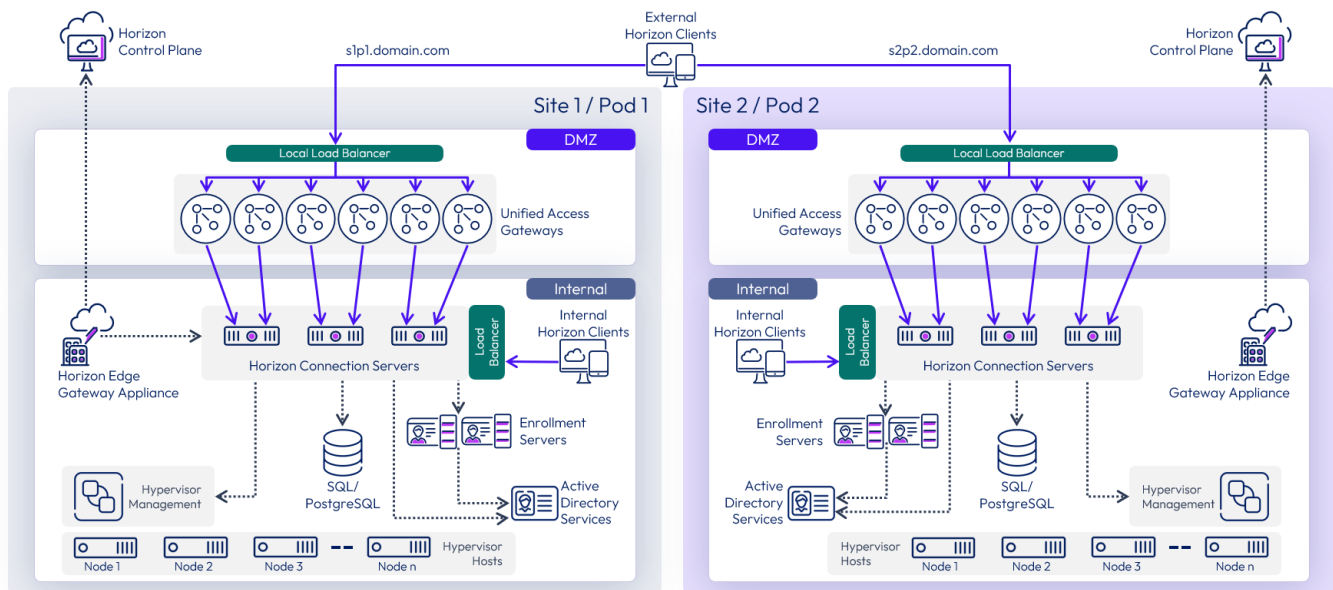


Figure 1: Omnisca Horizon Architecture-multi-site

## Desired state: Azure Virtual Desktop with Nerdio Manager

Azure Virtual Desktop is supported with both on-premises infrastructure (Azure Local) and cloud infrastructure (Azure) today. Microsoft has announced<sup>7</sup> that they will be expanding the on-premises deployment options with Azure Virtual Desktop to include a broader range of environments, including vSphere.

Support for vSphere with Azure Virtual Desktop will simplify the migration process once available. Nerdio Manager for Enterprise is a key addition to any deployment model—it helps to simplify desktop image management workflows across Azure and hybrid environments, optimize infrastructure utilization, accelerate cloud deployment, and reduce costs from an easy-to-use centralized platform. The most common deployment models for AVD with Nerdio Manager are:

1. Cloud-only (most common): Azure Virtual Desktop with Nerdio Manager along with all other cloud desktops running in Azure.

<sup>6</sup> <https://techzone.omnisca.com/resource/horizon-8-architecture#introduction>

<sup>7</sup> <https://techcommunity.microsoft.com/blog/azurevirtualdesktopblog/announcing-new-hybrid-deployment-options-for-azure-virtual-desktop/4468781>

2. Cloud-connected hybrid (moderately common): Azure Virtual Desktop with Nerdio Manager in Azure with some cloud desktops on Azure and some virtual desktops on-premises in Azure Local today. As of the publication of this document, a hybrid Azure Virtual Desktop and Nerdio Manager deployment is only available with Azure and Azure Local. In the future, AVD will support on-premises infrastructure, including vSphere, and other options, such as Nutanix AHV, Microsoft Hyper-V, physical Windows Servers, or other Arc-Enabled on-premises servers.
3. Cloud-connected to on-premises infrastructure (least common): Azure Virtual Desktop and Nerdio Manager are hosted in your Azure subscription, and your virtual desktops are hosted on-premises only in Azure Local today.

The following figure represents the most common deployment model, where Azure Virtual Desktop with Nerdio Manager is a cloud-only deployment. Additional resources regarding on-premises options follow a similar architecture; they simply act as an extension of the desktop subnet. For the purposes of this guide, the migration will focus on a cloud-only deployment, as this type of migration encompasses the full transition of an Omnissa Horizon with vSphere on-premises apps and desktops environment to a fully cloud-hosted Azure Virtual Desktop with Nerdio Manager deployment.

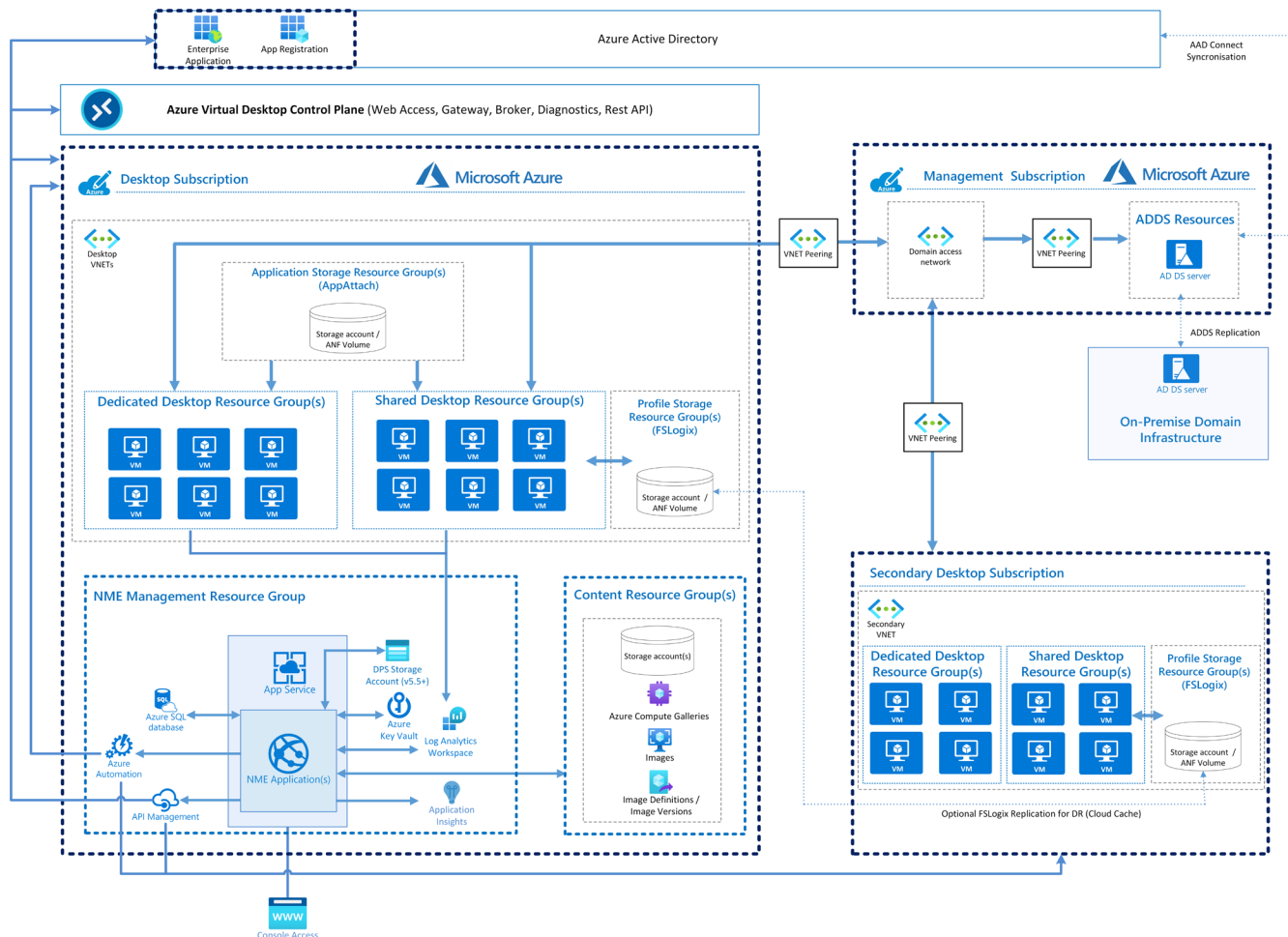


Figure 2: Azure Virtual Desktop with Nerdio Manager architecture

## Nerdio Manager for Enterprise architecture components<sup>8</sup> consist of:

- **Nerdio Manager Azure App Service Plan & Web Application:** This is the central web application, hosted as an Azure App Service, which provides the UI/API for all cloud desktop management operations. Nerdio Manager has an Enterprise app registration in Entra ID with the associated API permissions.
- **Nerdio Manager Azure SQL Database:** Nerdio Manager App Service uses an Azure SQL database to store Nerdio Manager metadata, configuration, state, and operation data needed for managing AVD resources.
- **Nerdio Manager Azure Key Vault:** Nerdio Manager uses an Azure Key Vault to secure credentials and encryption keys used by the Nerdio Manager app and its automation components.
- **Nerdio Manager Azure Storage Accounts (one or more):** Used for transient script storage, temporary VHDs, boot diagnostics for created VMs, and storage of encryption keys required for the database.
- **Nerdio Manager Azure Automation Account:** Houses runbooks and automation tasks that manually trigger Nerdio Manager updates and Azure runbook scripted actions.
- **Nerdio Manager Log Analytics Workspace & Application Insights:** Log analytics workspaces for telemetry, performance data, and diagnostics, plus application insights for logging exceptions and API utilization statistics.

## Key differences: architecture components

Many of the native Omnissa Horizon components are a replacement for native Azure Virtual Desktop components. It is important to note that part of the cost of the Omnissa Horizon license is for the build and support of those duplicative components. Although you may opt for Omnissa Horizon components today over the native Azure Virtual Desktop components<sup>9</sup>, the way the Microsoft remote access licensing is structured means you are still paying for those AVD components today, although your organization may opt not to use them. Here are some of the key component comparisons:

- **AVD Broker:** The AVD Broker manages user sessions and the routing of the user to the appropriate session host. The equivalent Omnissa Horizon component is the Omnissa Horizon Connection Server (on-premises) or part of the Horizon Control Plane (cloud).<sup>10</sup> It acts as a broker for client connections and authenticates users.

<sup>8</sup> <https://nmehelp.getnerdio.com/hc/en-us/articles/26124355756941-Nerdio-Manager-for-Enterprise-reference-architecture>

<sup>9</sup> <https://learn.microsoft.com/en-us/azure/virtual-desktop/terminology>

<sup>10</sup> <https://docs.omnissa.com/bundle/HorizonOverviewDeployment/page/HorizonConnectionServer.html>

- **AVD gateways and load balancers:** AVD does not require a separate gateway<sup>11</sup> or load balancer<sup>12</sup> for secure remote access, as they are integrated into the core AVD service. However, Omnissa Horizon requires the unified access gateway for secure remote access and external load balancers or specific high availability configurations.
- **AVD session hosts:** These are the VMs running Windows 11 Enterprise multi-session (No RDS CAL/SAL required) or Windows Server (RDS CAL/SAL is required). In Omnissa Horizon, these VMs are called Remote Desktop Services hosts or RDS hosts.<sup>13</sup>
- **AVD user profiles:** AVD uses the FSLogix profile containers<sup>14</sup> as a complete roaming profile solution, ensuring that each user's personalized settings and preferences are applied to their cloud desktops. Omnissa Horizon supports FSLogix profiles.<sup>15</sup>
- **AVD host pool:** A logical grouping of VMs/Session Hosts to assign to users are called a host pool in AVD. In Omnissa Horizon, they are called desktop pools.
- **AVD application groups:** An AVD application group controls access to a full desktop or a logical grouping of applications that are available on an AVD session host. In Omnissa Horizon, similar component functionality is available in a user group.<sup>16</sup>
- **Nerdio Manager (extends the capabilities of the Native Azure Portal):** The Nerdio Manager console is a purpose-built, simplified interface designed specifically for managing Azure Virtual Desktop and related desktop environments. Instead of navigating dozens of Azure services, menus, and settings, AVD admins can manage users, hosts, scaling, images, storage, and security from one easy-to-use console while improving cost control, avoiding misconfiguration, and strengthening security controls. Omnissa Horizon Console is the main user interface for the Horizon platform.



<sup>11</sup> <https://learn.microsoft.com/en-us/azure/virtual-desktop/configure-host-pool-load-balancing>

<sup>12</sup> <https://learn.microsoft.com/en-us/azure/virtual-desktop/configure-host-pool-load-balancing>

<sup>13</sup> <https://docs.omnissa.com/bundle/Desktops-and-Applications-in-HorizonV2406/page/RemoteDesktopServicesHosts.html>

<sup>14</sup> <https://learn.microsoft.com/en-us/fslogix/how-to-configure-profile-containers>

<sup>15</sup> <https://techzone.omnissa.com/resource/integrating-fslogix-profile-containers-omnissa-horizon#user-accounts>

<sup>16</sup> <https://docs.omnissa.com/bundle/WorkspaceONE-UEM-Console-BasicsV2302/page/UserGroups.html>

- **Nerdio Manager Real-Time Insights (extends the capabilities of native Azure Monitor):** Nerdio Manager provides real-time, agentless insights that help admins understand VM usage patterns across CPU, memory, disk and GPU, network performance, session responsiveness, alerting, and more. Omnissa offers VMware vRealize Operations (vROps) for Horizon as a paid add-on for Horizon environments. Nerdio Manager's Real-Time Insights is included at no additional charge.
- **AVD + Entra ID:** Azure Virtual Desktop (AVD) uses Microsoft Entra ID to authenticate users and control access to virtual desktops and applications through identity-based sign-in and conditional access policies. Omnissa Horizon supports IdPs like Entra ID and Okta; however, that is sometimes identified as a complex configuration process.<sup>17</sup>
- **AVD Windows App (client):** Sometimes called the RDP client or AVD client, Microsoft is now moving towards a unified Windows App.<sup>18</sup> Omnissa Horizon calls its client the Horizon Client.<sup>19</sup> Both clients support a robust set of end user devices, but the performance differences come into play at the protocol level.

## Key differences: licensing

### Omnissa Horizon

Omnissa Horizon has gone through some recent licensing changes, so it's important to understand the old and new options<sup>20</sup>. Today, Omnissa offers Horizon SaaS editions (where the Horizon management plane is hosted in the cloud) and Horizon Term editions (where there is a timed license for an on-premises deployment with no cloud access).

#### Omnissa Horizon SaaS editions available are:

- Horizon Universal Subscription: Full set of cloud management services for hybrid, multi-cloud.
- Horizon Enterprise Plus Subscription: Full set of cloud management services for Azure only.
- Horizon Standard Plus Subscription: Full set of cloud management services for on-premises or cloud.
- Horizon Standard Subscription: Basic cloud management services for on-premises or cloud.
- Horizon Apps Universal Subscription: App delivery cloud management services for hybrid cloud.
- Horizon App Standard Subscription: App delivery cloud management services for on-premises or cloud.

<sup>17</sup> <https://docs.omnissa.com/bundle/UnifiedAccessGatewayDeployandConfigureV2406/page/ConfiguretheIdentityProviderwithUnifiedAccessGatewayInformation.html>

<sup>18</sup> <https://learn.microsoft.com/en-us/windows-app/overview>

<sup>19</sup> <https://docs.omnissa.com/bundle/HorizonOverviewDeployment/page/HorizonClient.html>

<sup>20</sup> <https://www.omnissa.com/horizon-pricing-and-packaging-whitepaper/>

**Omnissa Horizon Term editions available are:**

- Horizon Enterprise Term: Full set of on-premises management services for app and desktop delivery, with apps and desktops either on-premises or cloud.
- Horizon Advanced Term: Basic on-premises management services for app and desktop delivery, with apps and desktops either on-premises or cloud.
- Horizon Standard Term: On-premises management services for app delivery, with apps either on-premises or cloud.
- Horizon Apps Advanced Term: Full set of on-premises management services for app delivery, with apps either on-premises or cloud.
- Horizon Apps Standard Term: Basic set of on-premises management services for app delivery, with apps either on-premises or cloud.

**Azure Virtual Desktop and Nerdio Manager for Enterprise licensing**

Azure Virtual Desktop licensing is more straightforward, as most Microsoft 365 licenses and Windows 11 licenses are eligible to access Windows 11 with Azure Virtual Desktop if you have the proper per user license.<sup>21</sup> Please note that only applies to the Azure Virtual Desktop access entitlement. Azure infrastructure usage, including virtual machines, storage, and networking components, etc. are charged separately. The charge for the physical servers is also a separate charge if leveraging vSphere.

A key element of Azure Virtual Desktop that is helpful to note is Windows 11 Enterprise multi-session capabilities. With Azure Virtual Desktop, your Windows 11 Enterprise licenses support multi-session capabilities in Azure and on Azure Local.<sup>22</sup> This is another cost savings benefit, as it alleviates the cost of the RDS CAL or SAL.

The Nerdio Manager for Enterprise licensing model is equally simple in comparison. Available in a Core or Premium edition, customers get all the AVD image management, cost optimizations, security controls, and real-time insights that simplify the migration and management of Azure Virtual Desktop with billing based on the number of monthly active AVD users.

<sup>21</sup> <https://azure.microsoft.com/en-us/pricing/details/virtual-desktop>

<sup>22</sup> <https://learn.microsoft.com/en-us/azure/virtual-desktop/windows-multisession-faq>



All Omnissa Horizon editions are available as a named user or a per concurrent connection. A key factor to consider in your migration plans is the use of vSphere in your deployment. Most editions of Horizon include VMware vSphere Foundation (VVF) for VDI, which entitles organizations to vSphere (ESXi), vCenter Server, and vSAN for VDI workloads as part of their Omnissa Horizon subscription. When migrating away from Omnissa Horizon, it is key that your organization accounts for the following options as your entitlement to VMware vSphere Foundation (VVF) for VDI is no longer applicable:

- **Migrate from VMware vSphere Foundation (VVF) for VDI to another on-premises option for AVD:** Today, Azure Local is the logical option. Check the [Azure Local system requirements](#) to make sure your existing on-premises vSphere hardware is supported. In the future, with the release of Azure Virtual Desktops for hybrid environments, you'll be able to migrate to Nutanix AHV, Microsoft Hyper-V, or other on-premises hypervisor options to save on the cost of a vSphere license.
- **Migrate from VMware vSphere Foundation (VVF) for VDI to native Azure:** If your organization is ready to leave the datacenter and simplify cloud desktop management, the logical choice is to move from VVF to native Azure. There are a few key options for making this transition:
  - **Manual migration:** If you want to manually migrate your Horizon VM image to Azure, you can clean up the VM by removing VM Tools, unneeded software, snapshots or linked clones, and installing the Azure VM agent, running Sysprep to generalize the image, and ensuring the VM can join the Azure network. Then, convert the VMDK to a VHD, use the VHD to create an Azure Managed Disk, and create the Azure VM from the new Managed Disk. Overall, it's a very involved time-consuming process.
  - **Migration tool:** Nerdio Manager offers Nerdio Migrate, an easy-to-use migration tool that simplifies the manual process of migrating VMs on vSphere to native Azure. Nerdio Migrate can detect any non-AVD VM and guide you through the migration process through an intuitive user interface.

## Key differences: protocol

Azure Virtual Desktop uses the Remote Desktop Protocol (RDP) as its core display and transport protocol. Historically, legacy VDI vendors, such as VMware (now Omnissa), would build their own protocols to replace the native RDP protocol. VMware has had a few different versions of their protocol over the years, but today, the Omnissa Horizon protocol is known as Blast Extreme.<sup>23</sup>

In recent years, Microsoft has invested heavily in RDP to modernize it for cloud and enterprise use. While there were years when the hot topic was the performance difference in the various legacy VDI vendors' protocols compared to RDP, today the differences are becoming less prevalent. At its core, RDP is built natively into Windows and continuously updated by Microsoft. It supports adaptive graphics, UDP-based transport, multimedia redirection, Microsoft Teams optimization, and it has tight integration with Entra ID.

<sup>23</sup> <https://docs.omnissa.com/bundle/HorizonOverviewDeployment/page/BlastExtreme.html>



Given that RDP is developed by Microsoft for remote access to Microsoft desktops and applications, it benefits from a broad range of Microsoft applications and device compatibility with deep integration into the Windows OS and Microsoft security stack.

Omnicore Horizon works with a variety of protocols,<sup>24</sup> with Blast Extreme being the most common. Blast Extreme is optimized for high-performance graphics and multimedia in virtual desktop environments. It is highly tunable and can deliver excellent user experience over challenge networks, but it introduces an additional protocol layer that must be configured, tuned, secured, monitored, and updated to ensure the best user experience.

This can add an additional layer of operational overhead and potential security concerns when compared to the native Windows RDP protocol that is designed for Microsoft operating systems and cloud environments.

## Key differences: image management

Image management, sometimes called lifecycle management or desktop orchestration, is the process of creating, maintaining, and updating the AVD host VM image that serves as the golden virtual machine from which you build out your AVD host pool (or desktop pool in Omnicore Horizon). This is where the bulk of the day-to-day management and operations come into play, as admins must apply operating systems patches, install/patch/remove applications, configure settings, and test changes before deploying the image to the users.

This is also one of the key elements of a cloud desktop or virtual desktop architecture that makes it such a good solution for highly regulated industries that strive for a high level of security and compliance standards. The effective image management of a virtual app and desktop environment can help ensure consistency, enhance your overall security posture, and increase user access reliability while reducing operational efforts and risks.

In Omnicore Horizon, the image management process can sometimes be considered a manual, infrastructure-centric process. Admins must create and maintain their golden images directly in vSphere managed through vCenter, then use features like instant clones to push changes to the desktop pools. While powerful, the coordination from vCenter to the Horizon components, storage, and networking can be time-consuming, especially at scale.

<sup>24</sup> <https://docs.omnicore.com/bundle/UnifiedAccessGatewayDeployandConfigureV2312/page/OptionalHorizonProtocols.html>

With Nerdio Manager, the image creation and management process in Azure Virtual Desktop is automation-first. The Nerdio Manager platform provides an easy-to-use UI that simplifies the process of creating a standardized golden image, utilizing automatic OS and application updates, validating images, and rolling them out to AVD host pools with minimum disruption. Nerdio Manager offers image versioning, rollback, and scheduling within the image management workflow, significantly reducing the manual effort and operational risk. Enterprise Strategy Group (ESG) found the IT hours needed to manage AVD were cut by approximately 50% with Nerdio Manager.<sup>25</sup> The following key differences in image management and provisioning are worth noting:

- **Image creation process:** Omnissa Horizon images are manually created VMs in vSphere via vCenter. With Nerdio Manager, the image creation process is automated using standardized templates from the Azure Marketplace to ensure they are always the most recent version and offer advanced options, like Center for Internet Security (CIS) Hardened Images.
- **Updating the image:** Omnissa Horizon requires the admin to manually update the image and then recompose the desktop pool operations. Nerdio Manager automates the image update process by applying the necessary patches and then controls the image rollout to avoid broad user disruption.
- **Image rollback and versioning:** In Omnissa Horizon, you have to manually snapshot the image to establish rollback points in time. With Nerdio Manager there is built-in image versioning, making it easy to roll back changes if there are issues with new updates.
- **Operation efforts:** Given the historical relationship between Omnissa Horizon and VMware vSphere, different image management activities are performed in different consoles and systems. With Nerdio Manager, all image lifecycle management activities are centralized in a single UI.
- **Security risk:** Given the number of manual steps and variations in consoles with Omnissa Horizon, the risk of configuration drift is greater. With Nerdio Manager, the workflows and automation around image management is designed to be repeatable at scale, making it easier to avoid human error. Enterprise Security Group (ESG) looked specifically at the benefit of lowered complexity in AVD operations and found that human errors related to AVD complexity can be reduced by 60% with Nerdio Manager.<sup>25</sup>

<sup>25</sup> <https://getnerdio.com/wp-content/uploads/2025/03/ESG-Economic-Validation-Nerdio-Sep-2024-final-1.pdf>

## Addressing common migration concerns

While the long-term benefits of moving from Omnisca Horizon to Azure Virtual Desktop with Nerdio Manager are compelling, most organizations want to validate a few practical considerations early in the planning process. The following concerns are common and should be accounted for as part of a successful migration strategy:



**End-user experience and performance:** Confirm that session responsiveness, multimedia redirection, and collaboration workloads (such as Microsoft Teams) deliver the expected experience across your typical user network conditions.



**Application compatibility and delivery approach:** Validate how line-of-business applications behave in AVD, including dependency mapping, packaging requirements, and whether apps are best delivered as full desktops, RemoteApp, or via alternative methods.



**User profiles and personalization:** Ensure profile persistence and consistency across sessions, including performance implications of profile containers, storage configuration, and any existing profile management tooling.



**Operational readiness and administrator workflows:** Plan for the learning curve associated with new AVD constructs (host pools, application groups, scaling) and how Nerdio Manager can streamline day-to-day operations through centralized management and automation.



**Security, identity, and compliance alignment:** Review authentication flows, conditional access policies, logging, and administrative controls to ensure your future-state environment meets or exceeds current standards.



**Licensing and infrastructure dependencies:** Account for Horizon licensing changes, renewal timelines, and any bundled vSphere entitlements that may affect your on-premises strategy or timing for moving workloads to Azure.



**Migration disruption and rollout approach:** Reduce risk by piloting with representative users, validating assumptions early, and using a phased cutover plan rather than attempting a large-scale migration all at once.

## Build your Omnissa Horizon migration plan to Azure Virtual Desktop with Nerdio Manager today!

Don't wait until your Omnissa Horizon renewal date. Use the technical data points and business value in this planning guide to outline the risks of staying on Omnissa Horizon to your executive leadership today, and start developing a plan to move from Omnissa Horizon to Azure Virtual Desktop with Nerdio Manager sooner than later. Here at Nerdio, we hear from so many of our customers that they didn't think they would be impacted by all the licensing and pricing changes, and then we are rushing to do anything we can to help them before their renewal date.

Building a plan early helps put you in control! Your Horizon and vSphere knowledge is easily transferrable to Azure Virtual Desktop and Nerdio Manager. The Nerdio team will help you rapidly deploy and build a proof of value environment for your team.

The Nerdio team is here to help you through the process! Share your current Omnissa Horizon deployment details, and we will help you get started! Visit [getnerdio.com](https://getnerdio.com) today to schedule your personalized call.



**Carisa Stringer**  
Head of Product Marketing  
Nerdio  
[LinkedIn](#)

Carisa Stringer is the Head of Product Marketing at Nerdio, where she leads the strategy and execution of go-to-market plans for the company's enterprise and managed service provider solutions. She joined Nerdio in 2025, bringing 20+ years of experience in end-user computing, desktop as a service (DaaS), and Microsoft technologies. Prior to her current role, Carisa held key product marketing positions at Citrix and Anthology, where she contributed to innovative go-to-market initiatives. Her career reflects a strong track record in driving growth and adoption in the enterprise technology sector. Carisa holds a Bachelor of Science in Industrial Engineering from the Georgia Institute of Technology.



**Chris Hildebrandt**  
Solutions Architect  
Choice Solutions  
[LinkedIn](#)

Chris Hildebrandt is a Technology Generalist and passionate EUC-focused Solutions Architect at Choice Solutions. With hands-on experience from enterprise deployments to consulting, he specializes in virtualization, Omnissa Horizon, App Volumes, AVD (Azure Virtual Desktop), Windows 365, Nerdio, LoginVSI, and streamlining workflows through automation (PowerShell, APIs, and more). Chris is a proud multi-year vExpert, Omnissa Tech Insider, Cisco Champion, Nerdio MVP, former VMUG leader, and World of EUC Leader. Connect with him on EUC challenges, automation ideas, or modern workspaces!

---

## About Nerdio

Nerdio is a leading provider of powerful, simplified cloud management solutions for businesses of all sizes. Trusted by managed service providers (MSPs) and enterprise IT departments alike, Nerdio equips organizations with seamless, cost-effective management tools for Azure Virtual Desktop (AVD), Windows 365, and comprehensive Modern Work solutions.

With thousands of customers worldwide, Nerdio accelerates cloud adoption, enabling companies to thrive in an era of hybrid work by providing modern, future-proof technology that adapts to evolving workplace needs.

For more information, please visit **[www.getnerdio.com](https://www.getnerdio.com)**.



WEB [www.getnerdio.com](https://www.getnerdio.com)  
EMAIL [hello@getnerdio.com](mailto:hello@getnerdio.com)