

App Volumes with Apps on Demand

Simplify published app deployments

At a glance

App Volumes with Apps on Demand simplifies published app delivery and management by:

- Separating app and OS management across Broadcom, Citrix, Microsoft, and Amazon deployments
- Leveraging user-based entitlements to reduce management complexities
- Reducing infrastructure costs with an on-demand app delivery model
- Providing 99 percent app packaging compatibility to support any app

Published app delivery, deployment, and management can be complex. Deploying new apps and app updates can be time-consuming for IT because that often requires OS image updates, accurate app entitlement, and app compatibility. The app management problem grows even more as organizations leverage different VDI (virtual desktop infrastructure), DaaS (desktop-as-a-service), and published app solutions across on-premises and multi-cloud environments, forcing IT to use more app management tools and create and manage more app images.

Now is the time for a fresh approach to managing published app deployments using [App Volumes™](#) with Apps on Demand.

Modernize traditional published app deployments with App Volumes and Apps on Demand

App Volumes uses a modern approach to address common challenges of delivering and managing published apps. With Apps on Demand, a new innovative capability delivered through App Volumes, IT admins can further reduce management time and farm infrastructure costs.

Challenge 1: Overwhelming app and OS management effort

The traditional app publishing deployment model is based on dedicated farms or silos. Dedicated farms or silos are logical collections of physical hosts that provide dedicated capacity to an app or group of apps. Each host in the farm has an underlying OS with published apps installed on it.

As apps are tied to specific farms, using traditional app management in published app environments is extremely complex because app updates can only be rolled out with appropriate OS versions. Hence, app administrators and IT must coordinate their efforts to roll out new apps with the right OS version, which inevitably limits the app publishing windows. Additionally, updating to a new version of an app suite, such as Microsoft Office, means that all host OS images of a specific farm must be updated to the required version. As a result, users may be moved to a temporary farm during the update process until the

update is completed. And should an update fail, the app does not perform as expected, or the app admin loads the wrong version, reverting to the last known good state of an app is extremely difficult because legacy published apps do not necessarily support app rollback.

Solution: Simplify app and OS management with App Volumes

To address this challenge, App Volumes features an abstraction layer that separates the app from the host OS (as shown below). As the app runs in its own virtual container, it can be updated independently of the OS image. This helps IT admins and app teams to drive more efficiency through faster app deployment and updates. Plus, with App Volumes, IT can capture an app just once and deliver it to multiple published app hosts (commonly referred to as RDSH hosts) and VDI desktops at the same time, saving time and avoiding any manual mistakes while deploying apps with ease.

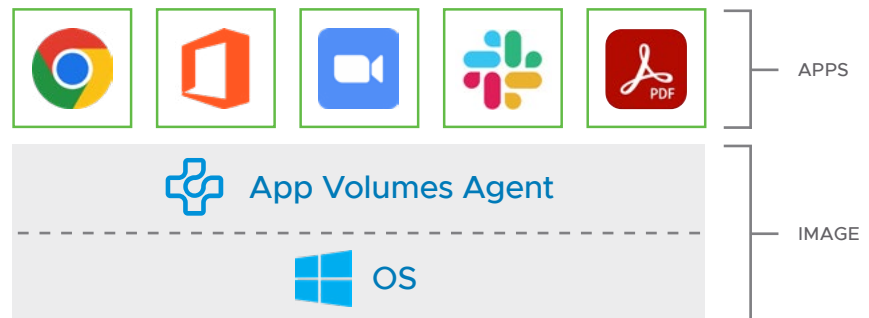


Figure 1: Simplify app delivery and management by separating app OS from host OS management.

Challenge 2: Complex user entitlement management

With traditional published app management approaches, apps are often provisioned to users on a machine-based model. This method requires entitlement for users on each app host. If there are any changes, the admin needs to re-rationalize the machine entitlements. As the server farms grow, machine-level entitlements limit app management flexibility. And if an admin misses a user when moving hosts or adding an app, or a new machine, that user would lose access because entitlements are done at the machine-level.

Solution: Implement user-based entitlement management with App Volumes and Apps on Demand

App Volumes solves these challenges through user-based entitlements, which saves admins time and ensures that users can access the apps they are entitled to when they log in. Apps on Demand takes the user-entitlement concept a step further by only attaching apps to published app hosts when a user actually clicks

on an app. Some of the benefits that IT can realize with App Volumes and Apps on Demand are:

- Eliminating the need to manage entitlements on each host.
- Improving employee experience by providing the right access level to the users.
- Supporting all entitled users with a single copy of an app.

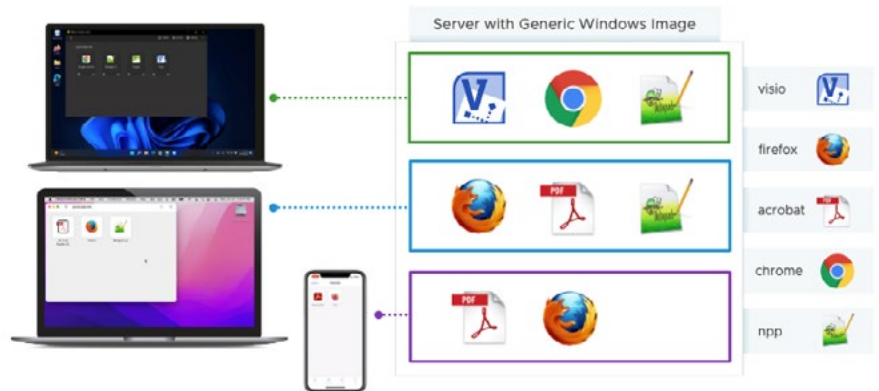


Figure 2: User-based entitlement allows IT to use the same app copy across multiple users and devices. In this example, the same Adobe Acrobat Reader app copy is used for multiple users accessing their own Adobe Acrobat Reader app.

Challenge 3: Underutilized infrastructure

The traditional farm-based approach to published app environments requires sufficient capacity to support peak workloads or support all entitled users using an app at the same time. This creates the need to purchase and dedicate servers for peak usage of every app, and to ensure adequate IT personnel to manage these infrastructure resources. It defeats the very purpose of virtualization, which is to optimize infrastructure for expected usage. And many farms are overbuilt and operate far below capacity leading to unused capacity.

Solution: Optimize farm infrastructure utilization with App Volumes and Apps on Demand

App Volumes with Apps on Demand helps IT to reduce published app infrastructure costs by consolidating legacy app farms and servers while implementing an on-demand model. Because apps are only attached to published app hosts when users actually use their apps, new app servers are deployed only when existing server capacity is fully used, and there is no extra capacity available. Instead of spinning up new servers for every new app, admins can fully leverage the existing capacity before adding more. This frees up capital expenditure budget for more critical IT needs.

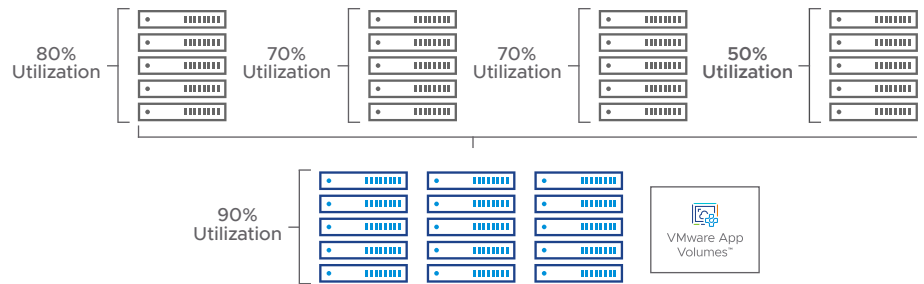


Figure 3: Optimize utilization by collapsing multiple farms into one farm and add a new host only when the existing capacity is fully utilized. In this example, four underutilized farms have been consolidated into one farm powered by App Volumes.

Challenge 4: Extensive app packaging efforts

Oftentimes when the developer who created an app leaves the organization without sufficient knowledge transfer, legacy data center apps can't be updated effortlessly, or the app cannot be moved easily to a cloud native environment because of technology mismatch. Many times, these apps must be delivered from on-premises data centers via app publishing, which leads to latency challenges for distributed users. But traditional app publishing technologies don't support modern apps, which increases complexity and cost. Moreover, high availability/disaster recovery may not be possible for legacy apps, which negatively impacts business continuity efforts. In short, app packaging can be complex and needs specialized skills to be done successfully.

Solution: Simplify app packaging with App Volumes

With App Volumes, admins can manage modern and legacy apps with 99 percent app compatibility. Thus, it's not necessary to develop different packages for different users or subsets of users, which leads to significant capacity and time savings.

App Volumes and Apps on Demand support various app packaging technologies including App Volumes format, MSIX app-attach, and ThinApp®. This allows IT to package everything from modern Microsoft apps to apps that run on Windows XP, Windows Vista, and Windows 7. Additionally, IT can use App Volumes as a single app management platform across Horizon®, Citrix Virtual Apps and Desktops, Microsoft Azure Virtual Desktop, and Amazon environments.

To learn more about App Volumes and Apps on Demand

- Watch the [App Volumes lightboard videos](#)
- Try the App Volumes and Apps on Demand [Hands on Lab](#)
- Contact your Broadcom representative today