Tintri VMstore™ for vSphere™ Integrated Containers
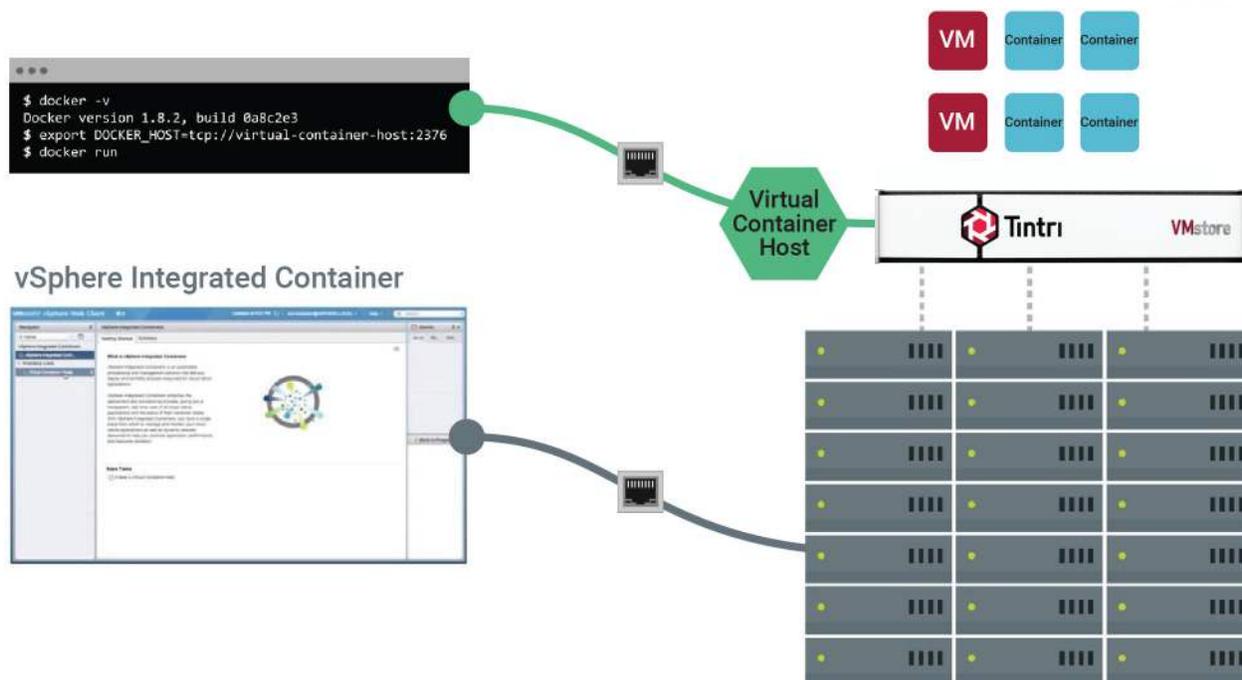
VMstore

Experience Different! VMware vSphere Integrated Containers enables IT operations to host enterprise clouds based on containers and traditional VMs side-by-side on a shared infrastructure. It allows developers to continue using their existing container management and provisioning tools while providing IT operations with the visibility and management of containers both teams require.

Tintri VMstore provides storage built from the ground up for containerized and virtualized workloads. In combination with vSphere Integrated Containers, VMstore provides visibility into container performance, the power to guarantee performance through per-container quality of service (QoS) policies, and the flexibility to scale your infrastructure for the growth of both containers and VMs.

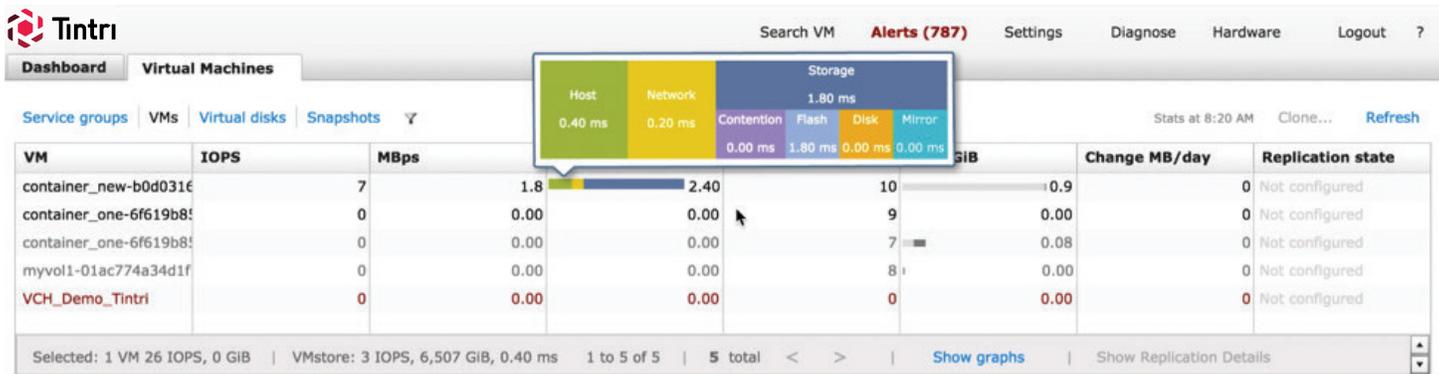## Four Key Benefits with Tintri VMstore for vSphere Integrated Containers:

1. Performance

If your storage is a bottleneck, you're already hearing about it from end users. In the past, you could plan more carefully and slowly to try to avoid problems, but that's not an option in a fast-moving containerized environment. Simply buying more storage, especially with all-flash, is a very expensive band-aid, and doesn't get to the root of the problem. Traditional storage (aka standard infrastructure) was designed for physical rather than virtualized or containerized workloads, and it's almost impossible to guarantee performance for containers and VMs on storage designed around LUNs and volumes.

As Intelligent Infrastructure that understands virtualization and virtual machines, Tintri VMstore is different. VMstore gives every container and VM its own, isolated I/O lane. There is zero conflict and no noisy neighbors, so every application automagically gets its fair share of performance, no manual tuning or setup required. You can create tiers of storage performance by setting per-container QoS minimums for mission-critical applications and maximums to cap lower-priority applications. VMstore is the only storage that can guarantee the performance of every single container or VM in your environment.

2. Visibility

Troubleshooting performance of containers shouldn't be a guessing game. With Tintri VMstore, if an individual container is not performing as expected, your first stop is the Tintri Global Center, which provides real-time analytics. This includes an end-to-end latency breakdown — spanning host, network, and storage — by simply hovering your mouse over the container. It's like an X-ray of your infrastructure that makes it a snap to isolate the root cause in real-time. VMstore also provides predictive analytics through Tintri Analytics, providing insights into your storage future based on the organic and project-based infrastructure growth of your containers and VMs.

Tintri Intelligent Infrastructure

3. Scale

The beauty of Tintri VMstore with containers is the visibility it gives your IT operations teams into the needs of the container, which today are hidden behind VMs that may be carved into dozens or hundreds of containers by your developers. With VMstore, no storage expertise is required. Anyone in your data center who understands VMware vSphere can manage the storage for both containers and VMs. That means you can easily scale out your containerized environment without adding management burden. With VMstore's federated approach, your organization can scale container and VM storage from just 17TB up to 10PB and operate it all with the same team you have today. VMstore allows you to manage a mix of all-flash and hybrid platforms as one loosely coupled, federated pool of storage, and automatically optimizes the placement of every single application across your entire footprint.

4. All the Benefits of Tintri VMstore, without Burdening Your Developers

vSphere Integrated Containers exposes a Docker compatible API for developers to instantiate container images. After a one-time setup, developers can continue deploying and managing containers just like before. Developers keep their management tools, IT operations gain visibility into containers and can manage containers just like VMs, and Tintri VMstore provides the benefits of per-container visibility, manageability, guaranteed performance, and Quality of Service.

Summary

Tintri VMstore for vSphere Integrated Containers allows organizations to quickly add support for containers without re-architecting their entire infrastructure, while gaining the benefits of container-level QoS, scale-out, and real-time and predictive analytics.

Experience Different! To learn more about how Tintri VMstore for vSphere Integrated Containers can turbocharge your business success through a simplified, Intelligent Infrastructure, visit tintri.com/vmstore. Or better yet, contact your Tintri representative or infrastructure partner and request a demo of VMstore for vSphere Integrated Containers.