TINTRÍ
Zero Management Storage

Highlights

Centralized Day to Day Storage Monitoring

- View VMstore dashboard for performance and capacity usage and trends
- Monitor and Manage VMstore alerts
- Monitor VMstore inventory in the virtual infrastructure and drill down for specific details at VMstore level

Simple and Flexible Configuration

- Setup VMstore within minutes and incrementally scale by adding VMstores
- Centrally manage and update VMstore configuration

Radically simplified Per-VM Data management

- Instantly diagnose VM performance issues with end-to-end latency breakdown
- Leverage Tintri per-VM space efficient snapshots and clones from vSphere Web Client
- Setup per-VM data protection policies with WAN efficient replication
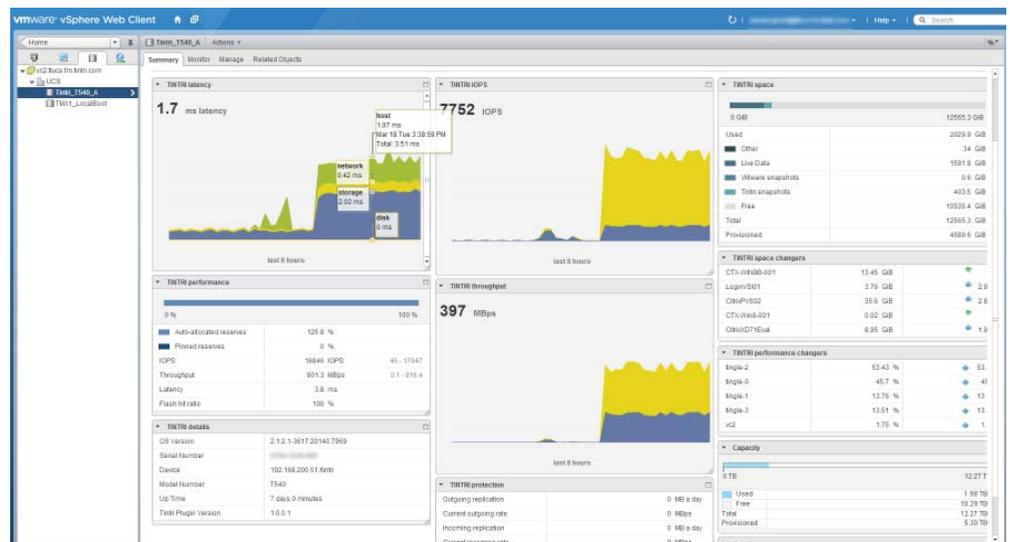
Tintri vSphere Web Client Plugin

Extending Tintri VM-awareness to VMware® vCenter™

Tintri Zero Management Storage™ is an always-optimized storage platform purpose built to address the challenges of deploying general-purpose storage in virtual environments. Built using the industry's first and leading VM-Aware storage architecture and FlashFirst™ design, Tintri VMstore eliminates the need to setup LUNs and volumes and is easily deployed as a single datastore in virtual environments delivers 99% IO from flash to provide unparalleled performance in a compact form factor.

The Tintri plugin for VMware vSphere® Web Client is the next milestone in enhancing the VMware ecosystem integration, a journey that started with Tintri VAAI plugin for creating space and performance efficient clones from vCenter interface. The Tintri vSphere Web Client Plugin extends other Tintri VM-aware benefits to vCenter. Natively integrated with the VMware infrastructure, Tintri vSphere Web Client Plugin allows administrators to leverage Tintri VM-aware capabilities, such as per-VM snapshots, clones, and replication, from vCenter interface to further simplify day-to-day management of large virtual environments and leverage Tintri per VM-level data management capabilities.

Centralized Day-to-Day Storage Monitoring

VMstore Dashboard: Tintri vSphere Web Client Plugin provides rich insights into VMstore level performance and capacity usage and trending metrics eliminating the challenges administrators face in performance and capacity monitoring and trending. The unique performance and capacity gauges give administrators immediate visibility to both the available performance headroom and storage capacity on any Tintri VMstore appliance. For the first time, administrators can get storage performance utilization with a single, easy-to-use metric – right from the vSphere Web Client. The Tintri dashboard information also quickly identifies VMs with the most changes in performance or capacity utilization in the past seven days without the need to understand how VMs map to the storage components—all you need to know is the name of the VM—Tintri VMstore manages the details for you.

The Tintri VMstore Dashboard as seen in the vSphere Web Client. Modules shown include 8-hour historical graphs of latency, IOPS and throughput, and instantaneous information on capacity, space utilization and notable space and performance changing VM's.

Review and Acknowledge VMstore Alerts: Tintri vSphere Web Client Plugin provides integrated monitoring and management of VMstore in the vSphere Web Client UI. Administrators can review and acknowledge alerts from multiple VMstore systems centrally from the vSphere Web Client UI. Centralized monitoring also allows the administrators to correlate the alerts from VMstore with those from the rest of the virtual infrastructure to get an end-to-end picture.

VMstore Inventory Summary: Tintri vSphere Web Client Plugin provides summary of all VMstore systems deployed in virtual infrastructure. Administrators can view summary VMstore characteristics such as VMstore model number, serial number, Tintri OS software version, uptime without needing to log in to individual VMstore systems and drill down to get additional details, such as performance and capacity dashboards, at a VMstore level.

Simple and Flexible Configuration

Setup Within Minutes: Tintri vSphere Web Client Plugin is simple to install and configure and an administrator can start to realize the benefits within minutes. An existing datastore from a VMstore can be attached to the plugin by just providing credentials of the VMstore and the vCenter

Incrementally Scale by Adding VMstores: With Tintri vSphere Web Client Plugin, administrators can add a new VMstore and a datastore to the vCenter infrastructure with just a few clicks. Each VMstore appliance appears as a single datastore in vCenter, making it easy to scale and manage multiple VMstore systems as a VMware Storage DRS cluster.

Update VMstore Configuration: Tintri vSphere web client allows administrators to centrally update the configuration of VMstores, including modifying the default snapshot schedules for VMstores to adapt to the changing needs for data protection.

Radically Simplified per-VM Data Management

Instantly Diagnose VM Performance issues: Performance bottleneck troubleshooting is a tedious management task as it is often difficult to pinpoint the source of the problem. With Tintri vSphere Web Client Plugin, administrators have instant visibility, from the guest OS layer to the storage layer. They can see per-VM latency breakdowns in real-time at any infrastructure layer –host, network, and storage – identify the source of performance issues and take immediate action (shown at right). The Tintri vSphere Web Client Plugin also provides historical graphical view of the performance metrics for easier troubleshooting.

Per-VM Space Efficient Snapshots and Clones: Similar to Tintri VMstore user interface, Tintri vSphere Web Client Plugin enables per VM data protection with Tintri space and performance efficient snapshots. Default snapshot schedules protect every

VM automatically; custom schedules allow users to meet specific data protection needs. The vSphere Web Client Plugin allows creation of space efficient per-VM clones that are immediately visible in the vCenter server. Data protection schedules can also be customized on a per-VM basis from the vSphere Web Client UI. Additionally, Tintri VAAI plugin can be leveraged to create space and performance efficient clones.

Per-VM WAN Efficient Replication: Tintri vSphere Web Client plugin enables administrators to configure per-VM replication to extend data protection to remote Tintri VMstore systems. Tintri per-VM replication sends only changed blocks between snapshots after global deduplication and compression to reduce the WAN usage by up to 95%.

Retention policies can be customized at a VM level for local and remote snapshots. Clone VMs are replicated and stored highly efficiently as the common snapshot on remote VMstore is used to re-create clone VMs, which results in no data being sent over the WAN and no additional storage space consumed on the remote VMstore for storing the replicated copies.

End-to-end latency shown over a two-day period including separate information on disk (shown in orange; not visible), storage (shown in blue), network (shown in yellow) and host (shown in green) latency.

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