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TECHNOLOGY ALLIANCE PARTNER

Building a simple path to hybrid cloud

Take action at the virtual machine level, with Tintri and Rubrik, so you can simplify the deployment and management of hybrid cloud.

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The need for a path to hybrid cloud

Hybrid offers plenty of potential for organizations—the intersection of public cloud economics and flexibility with the control and security of private cloud. That's why more than 80% of enterprises have a hybrid cloud strategy. But most are struggling to implement that strategy, and that's because the conventional storage and backup systems behind their data centers aren't designed to meet the requirements of hybrid cloud. Those storage systems are built with LUNs and volumes for physical workloads, not for the virtual workloads that comprise a cloud footprint. To bring primary workloads from private clouds to off-site or public cloud disaster recovery (DR) locations organizations need to address primary and secondary storage together and accommodate rapidly shifting business requirements.

Unmatched VM-awareness, simplicity and protection

Built for virtualization and cloud, Tintri's VM-aware Storage, combined with Rubrik's r300 Series (powered by Rubrik Converged Data Management), offer easy-to-use storage and data protection capabilities with VM level management for both on-premises and hybrid cloud deployments. Together, Tintri and Rubrik provide virtualized enterprises with the simplest VM-aware storage and data protection solution that optimizes visibility and QoS.

Conventional storage challenges	The Tintri and Rubrik solution
Complex management	Tintri manages, clones, snapshots, replicates and troubleshoots everything at the VM level with its VM policy-based automation. In the same simple way, you can create data protection (backup, replication, archival) policies in Rubrik that can be automatically executed for all of your VMs with just a few clicks. Combined, Tintri and Rubrik deliver unmatched simplicity, ease of management and OPEX savings.
Lengthy deployment	Tintri VMstore and Rubrik r300 series setup is simple and significantly shortens your crate-to-production time. This simplicity provides time back so that you can focus on business needs.
Lack of scalability	Tintri scales up to 32 VMstores, 100,000 VMs across both all-flash and hybrid-flash arrays over data centers. And with Rubrik's scale-out fabric that eliminates forklift upgrades, organizations can grow, as needed, without headache. Deduplication, compression and other data services scale in-line with the cluster to maximize efficiency and savings.
Performance bottlenecks	Tintri ends over-provisioning and provides per-VM isolation and guaranteed QoS. Rubrik uses a hybrid-flash architecture for rapid data ingest to minimize impact to production workloads and application stun.
Lack of visibility and analytics	Tintri's VM-level visibility ends guesswork. You can easily visualize and troubleshoot latency issues across storage, network, and host with real-time actionable analytics and historical data. Rubrik's built-in reporting allows you to keep an eye on your capacity utilization, growth and runway. Equally important, Rubrik technology provides an alert when your data protection policies are out of compliance.

How Tintri and Rubrik work together

Tintri VMstore allows you to assign policies to each VM. With Tintri Global Center as a single pane of glass for all VMstores, groups of VMs can be defined (by tenant or by QoS requirements) as Service Groups. Tintri ReplicateVM allows easy VMs or Service Groups replication across VMstores—and policies and statistics simply move with them.

You achieve a consistent VM-aware approach that maps out your entire virtual infrastructure with Rubrik. Simply define protection policies (data backup, archival, and replication) based on your data governance needs and assign to VMs.

Any data (VMs, applications) can be mounted directly on Rubrik, without re-hydrating to production. Rubrik exposes itself as a scale-out NFS server to any host when a snapshot is mounted. You can achieve near-zero recovery time objective (RTO), conduct instant recovery testing and re-purpose backup data for other use cases such as test/dev.

Tintri works with Rubrik by presenting VMs in VMDK at the hypervisor layer, so there is no need for additional packs or plugins. Tintri simply presents the VMs to be backed up by Rubrik with great ease and simplicity. See Figure 1 for details.

For long-term data retention, Rubrik offers a secure and intelligent on-ramp to low-cost private and public cloud services. You can deliver granular recovery at the snapshot- or file-level to save on download costs. Rubrik maintains a global index that catalogues all data, no matter where it's stored. As a result, customers can find the desired file or application with predictive search functionality.

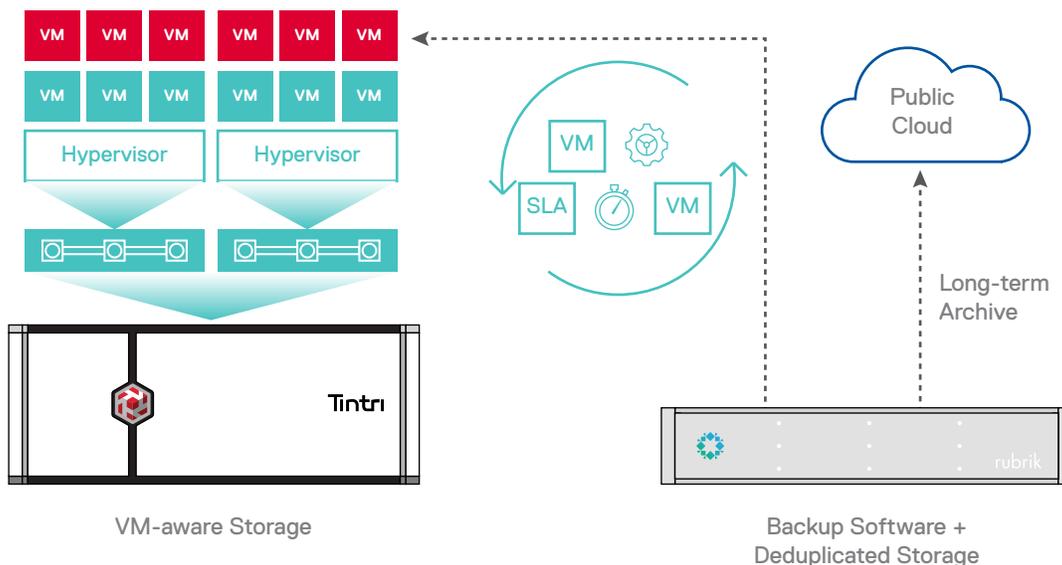## Manage at the VM-level. Rapidly deploy. Scale without complexity.

Figure 1. Primary to Backup – Complete Your Hybrid Cloud Vision

"Rubrik and Tintri share the common mantra of simplicity and performance within their products. Rubrik is disrupting the backup space with a simple, scalable and high performance product. Tintri disrupts a very crowded storage market with a VM-centric architecture that's simple yet allows for complete control over storage performance at an application/VM level."

Scott Mayers, Director of Cloud Solutions, rediCloud

Tintri is VM-aware storage purpose-built for virtualized and cloud environments. Tintri VMstore provides VM-level data management and protection capabilities, supporting concurrent multi-hypervisors across hybrid- and/or all-flash storage arrays. Tintri guarantees performance isolation and QoS of VMs. Also built in are enterprise-class features such as replication, synchronization, security and management.

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Rubrik introduces the r300 Series™, delivering the simplest data protection for virtualized environments. Rubrik Converged Data Management powers the r300 Series and integrates automated backup, instant recovery, unlimited replication, and data archival into a single, scale-out fabric. Rubrik is built to scale linearly, up to thousands of nodes in a single cluster.

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Don't Backup. Go Forward.