

VMstore[™] Cloud Connector



Experience Different! An ever increasing number of organizations are adopting a multi-cloud strategy to support multiple on-premise and public clouds simultaneously. The VMstore Cloud Connector tightly integrates on-permise VMstore systems with public clouds, such as Amazon Web Services. Cloud Connector extends enterprise data protection and disaster recovery strategies with secure cloud connectivity for long-term data retention. Send local snapshots to cloud and recover them to your VMstore systems in minutes to protect, archive and recover your mission-critical on-premises applications. Cloud Connector uses the VMstore architecture that delivers the right level of abstraction for virtualization and cloud to achieve the fastest recovery times and maximum flexibility.

Cloud Connector takes advantage of per-VM data transfer, deduplication, and compression capabilities, making it the most cost-efficient way to store data in the cloud. In a recent Enterprise Strategy Group report, its preliminary analysis shows that compared with traditional systems, Cloud Connector can:

- Reduce administrative costs by about 72%
- Reduce cloud storage and data egress costs by an estimated 80-88%
- Achieve up to 4x lower RPO/RTO

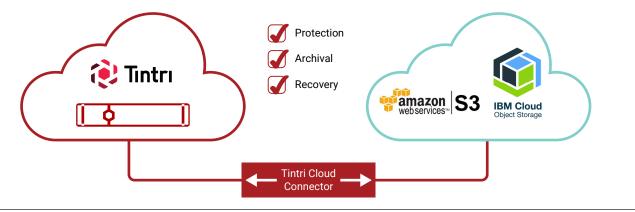


Figure 1 - VMstore integration with public cloud resources

Flexible Data Protection

Tintri's VMstore systems enable organizations to implement a flexible DP/DR strategy to satisfy changing business requirements. You can easily configure application protection policies from Tintri Global Center with any schedule, retention period and protection target (see Figure 2). VMstore's native integration with different cloud vendors replaces or complements traditional backup architectures.

🔞 Ti	ntri Global Center Virtual Machines	VMstores S	ervice Groups Pools					٩	Alerts 🧐 Explore	👤 admin
Service Groups									Data last updated Ju	un 27, 2:45 pm
+ Add Service Group Views Overview + 🖉 🔍									Q 🕹	
Errors 🗘	Service Group 🌲	VMs ‡	Snapshot Frequency 🌲	Replicate to 🌐	QoS Min Normalized IOPS	QoS Max Normalized IOPS	Logical Quota Free Space GIB			
	Engineering	1	Hourly	Not Configured	125	275	Not supported			
	Finance	1	Hourly,Weekly	2 VMstore	100	225	Not supported			
	HR	1	Weekly,Monthly	🔁 Cloud	50	100	Not supported			
	Marketing	1	Daily	AWS-US-West-2	Not Configured	Not Configured	Not supported			
	Sales	1	Hourly,Daily	🚹 Cloud , 1 VMstore	75	200	Not supported			

Figure 2 - Flexible application protection policies



High Space Efficent Data Recovery

Snapshots are space efficient with real-time inline compression and deduplication; only changed data is sent over the WAN. Data services and policy management is performed at the right level of abstraction – optimized for efficiency, cost, and speed of recovery. Cloud Connector minimizes HTTP requests such as GET and PUT, reducing public cloud access charges. These charges can become significant when you have a large amount of data to recover or during recovery from a service outage. You can quickly recover from the cloud to any VMstore storage (see Figure 3) and perform a file-level restore to recover just the data needed. This means you can work with far more agility and speed when every minute matters to your oganizations.

Download Snapshot			×
Selected Snapshot			
Created Jun 16 2017, 2:20:03 pm	Description daily scheduled	Location AWS-US-West-2	Consistency CRASH CONSISTENT
Download To*		•	
dpl-boston.ttucs.tm.tintri.c	om	*	
dpl-dallas.ttucs.tm.tintri.co	m		
dpl-mountainview.ttucs.tm	.tintri.com		
dpl-newyork.ttucs.tm.tintri	.com		
dpl-sanfrancisco.ttucs.tm.	tintri.com		
dal-toronto ttues ta tintri d	om	▼ Cano	cel Download

Figure 3 – Download snapshots from cloud to any VMstore storage system

Security and Performance

VMstore provides data-at-rest encryption on the cloud backup target and secure transmission to the cloud with SSL encryption. In the meantime, there is no impact on application performance. You can configure all your replication destinations and manage the keys from a single location – Tintri Global Center. With Cloud Connector, it's never been easier to collaborate on a global scale. Storing all of your VMstore data to one S3-compatible cloud target means that your employees will always have access to the information they need to get the job done.

💸 Tintri Global Center Virtual Machines VMstores Service Group	ps Pools		Q Alerts 🤒 Explore 👤 admin
SETTINGS	REPLICATION DESTINATIONS		
AD & LDAP			
Admin IP			+ Add Destination +
Alerts	Display Name	Cloud Service Provider	
Autosupport Certificates	AWS-US-East-2	AWS \$3	Edit 🔒
Date & time	IBM-Cleversafe-Local	IBM COS	Edit 🕋
DNS	AWS-US-West-2	AWS S3	Edit 🔒
External groups			
Licenses	webservices		Cancel Save
Local password	web services"		
Local users	Display Name *	Region used in Amazon	
Policy management	AWS-US-West-2	us-west-2	
Replication Destinations	Reportory ID tintri-awa-ua-west-2-1497647540143 Encryption Passphrace (User generated) xxxxxxxx Change	Access Key* Sooret Key*	Show Key

Figure 4. Configure cloud destinations in Tintri Global Center

Cloud Connector unites your on-premises infrastructure with AWS public cloud resources and IBM Cloud Object Storage, so you can create hybrid cloud services. VMstore makes this simple and efficient by operating at the right level of abstraction for virtualization and cloud—use AWS for the data protection, archive and disaster recovery of your mission critical on-premises applications and restore applications in a single click to your on-premises VMstore environment.

Experience Different! For more information on how VMstore systems can turbo-charge your business success through a simple, intelligent infrastructure, visit tintri.com/vmstore. Or better yet, contact your Tintri representative or infrastructure partner and request a demo of the VMstore Cloud Connector.



@tintri www.tintri.com

info@tintri.com