

Overland Storage Disk Products and Veeam Backup and Replication

How to Implement Veeam Backup and Replication with Overland Storage Disk Products

Why do you need it?

Virtualization is now a critical component within today's IT infrastructure. Backup and recovery of a VMware ESX environment has become much more imperative. In today's business, having a robust disaster recovery plan (DRP) is no longer a luxury, it's a necessity. Given the high probability and variety of events that cause outages, including natural disasters and man-made events, a disruption to business systems is not a question of if, but when.

As such, the need to implement a DRP to protect business information and core technology platforms are becoming an increasing priority for many businesses that want to operate in the unfortunate event that a disaster occurs.

How we can help...

Overland Storage offers many different disk products that are available and are ready to rapidly be deployed in a VMware Veeam disk-to-disk backup. Overland Storage has partnered with Veeam in order to help achieve a backup and recovery plan for the VMware infrastructure. The following Overland Storage family of disk products can be implemented into the VMware Veeam backup and replication environment.

- The SnapServer NAS products with the award-winning GuardianOS™. This includes the new SnapServer DX1 and SnapServer DX2
- The SnapSAN product family that includes the SnapSAN S1000 array and the SnapSAN S2000 appliance

Implementing a disaster recovery plan is imperative for today's business. Disaster recovery is all about planning and having a sound strategy for data protection. There are many different backup scenarios. This Solution Brief provides a simple footprint on configuring Overland Storage disk products in a VMware and Veeam backup replication environment. The disk storage products discussed in this document are the SnapSAN S1000 array with Fibre Channel controllers and the SnapServer DX as an iSCSI attached disk target.

In **Figure 1** we have a typical VMware vSphere environment with the Veeam Backup Server. The SnapSAN S1000 array is attached via Fibre Channel to the ESX server which houses the VMware VMFS Datastores. The SnapServer DX has iSCSI targets connected to the Veeam Backup Server. The source data is pulled from the VMware Datastore across the LAN and copied to the locally attached SnapServer DX iSCSI Disk Target on the Veeam Backup Server for a disk-to-disk backup solution. Disk-to-Disk backup offers the best in performance but more importantly recovery. Once the data is copied to the Veeam disk target, the data set can then be duplicated to physical tape for offsite archive by using another backup software that supports tape. This is the typical backup process leveraging the disk-2-disk-2-tape scenario.

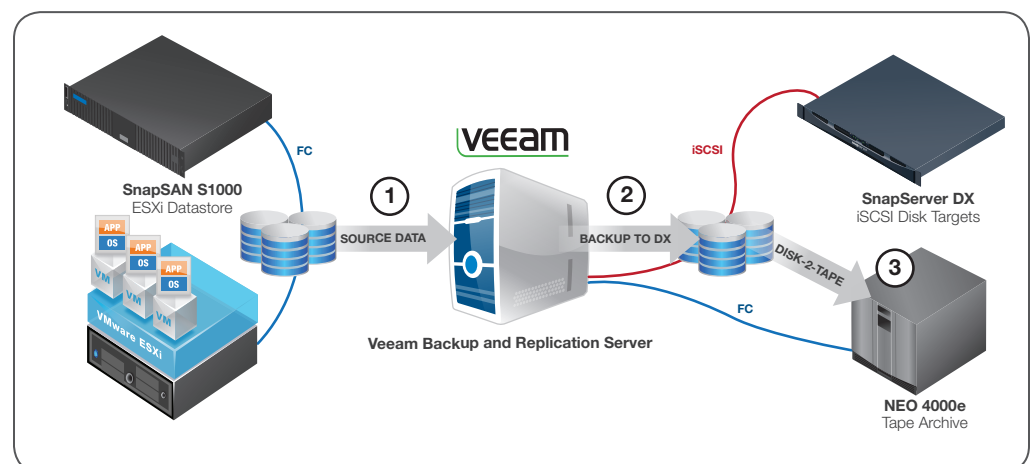


Figure 1

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In **Figure 2** we have a similar backup scenario as Figure 1 but for added protection for mission critical virtual machines, we have configured a Veeam replication job from the production VMware Server in Data Center 1 to Data Center 2. The off-site location or Data Center 2 is depicted in Figure 2 with a similar configuration as Data Center 1 with another SnapSAN S1000 array as the replication destination for the Disaster Recovery site. Veeam uses a replication technology that is configurable in the Replication Policy that allows for continuous replication to occur. The replication process only copies the deltas (changes since the last replication) which are then stored to a remote off-site Data Center location. This configuration allows for the best of Recovery Time Objective (RTO) and Recovery Point Objective (RPO) due to the continuous replication process and the recovery methodology within Veeam. If the communication between Data Center 1 and Data Center 2 was to fail, the alternative is to continue using the existing backup configuration with Veeam Backup Server and the SnapServer DX appliance as a local disk-to-disk backup.

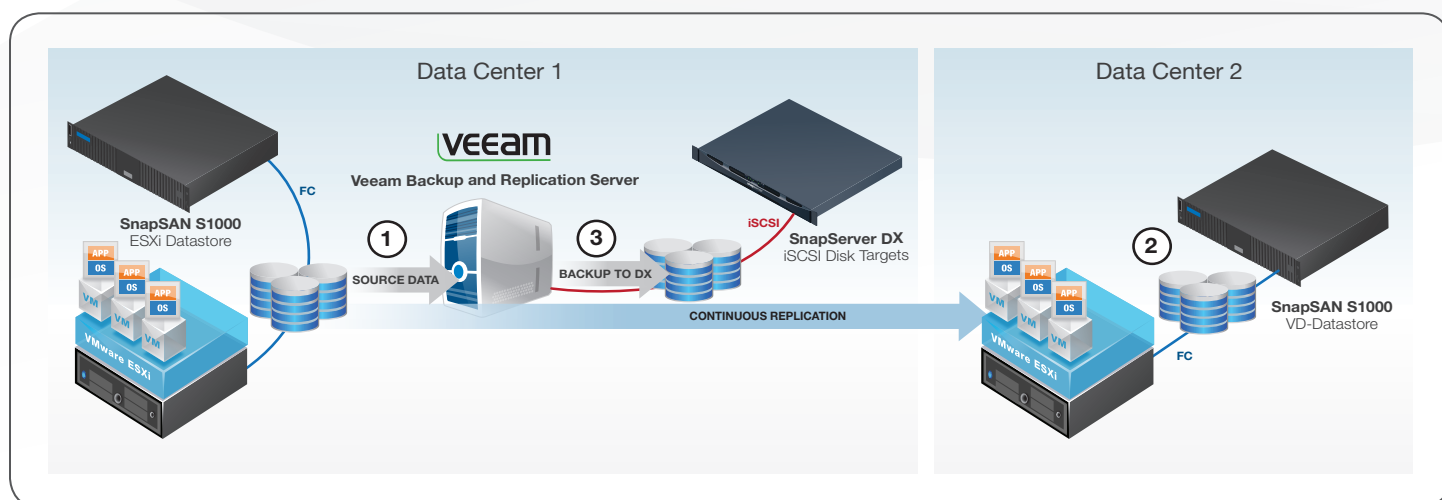


Figure 2

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VEEAM-SB0312-02