Dell EMC SC Series Federation

Manage, monitor, migrate, and protect application data across multiple Dell EMC™ SC Series arrays from a single pane of glass.

How do we define federation?

Scale-out infrastructure is one popular method for adding capacity to a data center. This is especially true for shared storage. Providing a seamless scale-out process not only benefits storage administrators, it is typically required in modern 24x7 business operations. Managing SC Series arrays as a federated storage cluster makes ease of management and seamless data mobility a reality.
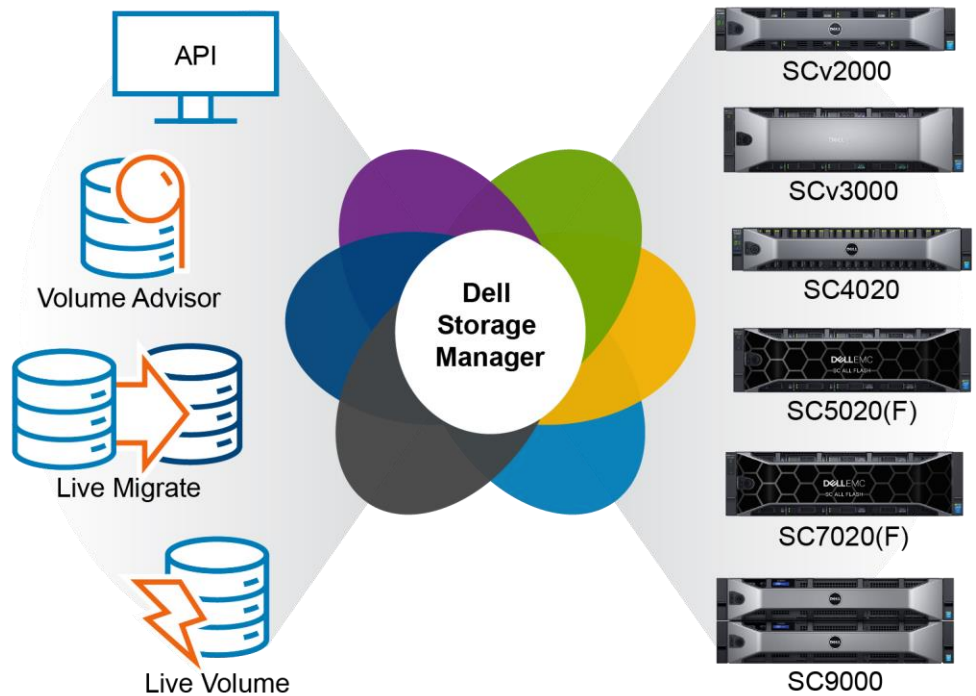
Dell Storage Manager

SC Series Federation starts with Dell Storage Manager which is a common management, monitoring, and API platform for all SC Series arrays. When managed by Dell Storage Manager, each SC Series array may share in the additional federation features provided by Dell Storage Manager.

Live Migrate

Live Migrate provides customers the ability to seamlessly move data between any SC Series arrays within the federation. Application data, as well as any array-based snapshots, are migrated non-disruptively on a per-volume basis. Tiered applications or data which spans multiple volumes can be migrated simultaneously.

In addition, Live Migrate can seamlessly move all volumes from an aging or retiring SC Series array to its replacement. Live Migrate is natively included with every SC Series array and it caters to many use cases such as adherence to service-level agreements, business growth, data-center resource load balancing, infrastructure lifecycle management, as well as disaster avoidance.

Dell Storage Manager provides single-pane-of-glass management

Volume Advisor

Volume Advisor is a layer of intelligence built into each SC Series array in the federation which helps guide the Live Migrate process. Volume Advisor proactively monitors storage metrics and recommends optimal application data placement and migration within the storage federation. Thresholds are customizable and defined by storage administrators. This makes the feature particularly useful for adhering to service-level agreements with storage consumers, such as resolving noisy-neighbor conflicts.

SC Series Federation allows you to:

- Manage and monitor multiple arrays with a single pane of glass
- Migrate application data from one SC Series array to another with no downtime using Live Migrate
- Use Volume Advisor to help maintain SLAs and guide the Live Migrate process
- Leverage Live Migrate and Volume Advisor, included with all SC Series arrays
- Have support for all SC Series hardware models within the federation
- Use Metro Storage Cluster disaster recovery and high availability with Live Volume

Live Volume

Live Volume is a stretched storage feature which provides advanced migration capabilities, lending itself to high-availability metro-storage-cluster infrastructure designs. Live Volume provides seamless data mobility like Live Migrate, but it also includes additional disaster-recovery and data-protection attributes for unplanned outage use cases. Live Volume with asynchronous or synchronous replication provides a recovery point objective (RPO) as low as zero data loss, while automatic failover provides a recovery time objective (RTO) as low as zero. In addition, Live Volume Managed Replication replicates a third copy of application data to a remote disaster recovery site to protect against a disaster scenario that impacts the entire metro storage cluster.

Learn more about SC Series Federation

SC Series Federation features combine to provide simplicity and intelligent data mobility for the agile data center. Contact your Dell EMC sales representative for more information.

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