



Troubleshooting SRM when using vVols replication

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The workflow within SRM is significantly different when using vVols replication from what is used with SRA and traditional datastores. For example, there is no array manager concept. As such, `discoverarrays` and `discoverdevices` commands are never seen.

When troubleshooting, it is beneficial to understand the new workflows, which are listed below:

1. `queryReplicationPeer`: Discovers the replication agreements between two fault domains.
2. `queryFaultDomain`: Discovers fault domain hierarchy.
3. `queryReplicationGroup`: Discovers the replication groups present in the source or target domains.
4. `syncReplicationGroup`: Synchronizes the data between source and target.
5. `queryPointInTimeReplica`: Discovers the point in time replicas on a target.
6. `testFailoverReplicationGroupStart`: Begins test failover.
7. `testFailoverReplicationGroupStop`: Ends test failover.
8. `promoteReplicationGroup`: Promotes a group currently in test to production.
9. `prepareFailoverReplicationGroup`: Prepares for a disaster recovery.
10. `failoverReplicationGroup`: Executes disaster recovery.
11. `reverseReplicateGroup`: Initiates reverse replication.
12. `queryMatchingContainer`: Finds containers (along with Hosts or Replication Groups) that might satisfy a provisioning request with a given policy.
13. `queryResourceMetadata`: Discovers the metadata of all resources from the VASA provider, the resource utilization can be returned as an answer to the `queryMatchingContainer` function.

The most common error seen when configuring vVols replication is a failure to discover the SnapMirror relationships. This occurs because the volumes and SnapMirror relationships are created outside of the purview of ONTAP Tools. Therefore, it is a best practice to always make sure your SnapMirror relationship is fully initialized and that you have run a rediscovery in ONTAP Tools at both sites before attempting to create a replicated vVols datastore.

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