

Scenario	Array Behavior	VMware HA Behavior
Single storage node single path failure	Node path failover occurs. All volumes remain connected. All ESXi sessions remain active.	No impact observed
ESXi Single storage path failure	No impact on volume availability. ESXi storage path fails over to the alternative path. All sessions remain active.	No impact observed
Site-1 Single Storage node failure	Volume availability remains unaffected. ESXi storage sessions affected by node failure, failover to surviving nodes. After failed node comes back online, all affected volumes resync automatically. Quorum is maintained.	No impact observed
Site-2 Single Storage node failure	Volume availability remains unaffected. ESXi storage sessions affected by node failure, failover to surviving nodes. After failed node comes back online, all affected volumes resync automatically. Quorum is maintained.	No impact observed
Site-1 All storage node failure	Volume availability remains unaffected. ESXi storage sessions affected by node failure, failover to surviving nodes. After failed node comes back online, all affected volumes resync automatically. Quorum is maintained.	No impact observed
Site-2 All storage node failure	Volume availability remains unaffected. ESXi storage sessions affected by node failure, failover to surviving nodes. After failed node comes back online, all affected volumes resync automatically. Quorum is maintained.	No impact observed
Quorum Manager Failure	No impact on volume availability. All sessions remain active.	No impact observed
Complete Site 1 failure, including ESXi and storage arrays	Volume availability remains unaffected. Quorum is maintained. Storage sessions to surviving ESXi nodes remain active. After failed node comes back online, all affected volumes resync automatically.	Virtual machines on failed ESXi nodes fail. HA restarts failed virtual machines on ESXi hosts on Site 2.
Complete Site 2 failure, including ESXi and storage arrays	Volume availability remains unaffected. Quorum is maintained. Storage sessions to surviving ESXi nodes remain active. After failed node comes back online, all affected volumes resync automatically.	Virtual machines on failed ESXi nodes fail. HA restarts failed virtual machines on ESXi hosts on Site 1.
Single ESXi failure (shutdown)	No impact. Array continues to function normally.	Virtual machines on failed ESXi node fail. HA restarts failed virtual machines on surviving ESXi hosts.
Multiple ESXi host management network failure	No impact. Array continues to function normally.	No impact. As long as the storage heartbeat is on and virtual machines are accessible, HA does

		not initiate failover
Single Storage Inter-Site Link failure	No impact. Array continues to function normally. Note: Redundant Inter-Site Links for storage network are required for this use case.	No Impact observed
Site 1 and Site 2 simultaneous failure (shutdown) and restoration	Arrays boot up and resync. All volumes become available. All storage sessions to ESXi hosts are re-established and virtual machines restarted successfully. As a best practice, storage arrays should be powered on first and allow the LUNs to become available before powering on the ESXi hosts.	No Impact observed
Management ISL failure	No impact to storage array. Volumes remain available	If the HA host isolation response is set to Leave Powered On , virtual machines at each site continue to run as storage heartbeat is still active. Partitioned Hosts on site that does not have a Fault Domain Manager elect a new Master.
Storage-Management Server failure	No impact. Array continues to function normally. Array management functions however cannot be performed until the storage management server is up and running again.	No Impact observed
vCenter Server failure	No impact. Array continues to function normally	No Impact on HA. However, the DRS rules cannot be applied.