

# Storage Certification

It enables storage partners to engage with VMware to certify their products with VMware vSphere. The Storage Hardware Certification as part of the SDDC Program is an umbrella of generic compatibility level test suites bundled as certification programs based on supported protocol and technology. Storage vendors can choose the appropriate certification programs based on their device interfaces.

The Storage Certification plug-in includes the certification tests for these storage programs:

- Fibre Channel SAN
- Fibre Channel DAS
- Independent Hardware iSCSI
- Software iSCSI
- Software and Dependent Hardware iSCSI
- iSCSI Over RDMA
- SAS DAS
- NAS
- VAAI (for Block Storage only)
- FCoE FC SAN, including Software FCoE, Hardware FCoE, and Software and Hardware FCoE
- FCoE End-to-End SAN
- SVD/Gateway
- Switched SAS

Nexii Labs will help the partners in testing and validating their storage hardware/software for VMware Ready certification.

## The Process



## *Test Scenarios*

Following are the high level test scenarios for different storage components. Only required test scenarios will be executed, but not all. For example if iSCSI device need to be tested, basic and iSCSI related tests will be executed.

- 01.** Verify ESXi hosts
- 02.** Data Integrity Tests
- 03.** Failover Tests
- 04.** iSCSI Tests
- 05.** iSCSI IPv6 Tests
- 06.** LUN support Tests
- 07.** Functional Tests
- 08.** NAS Tests
- 09.** NFS 4.1 Tests
- 10.** NFS 4.1 IPv6 Tests
- 11.** SVD Tests
- 12.** ATS Tests
- 13.** Block Zero Tests
- 14.** Full Copy Tests
- 15.** VAAI Array reported XCOPY Transfer Size Tests
- 16.** Thin Provisioning Tests
- 17.** TP UNMAP Tests
- 18.** Automatic TP UNMAP Tests
- 19.** Permanent Device Loss Test
- 20.** GOS SCSI-2 Reserve/Release Tests
- 21.** GOS SCSI-3 Persistent Reservation Tests
- 22.** SW FCoE VN2VN Tests
- 23.** DIF/DIX Tests
- 24.** iSER Tests

### *Program testing Timelines*

Over all Storage certification program testing will take around **6 weeks**, assuming all the required software, licenses and hardware are there and no issues are observed during the testing. It will take more time if any issue(s) are there. Issue(s) fixing time and re-verification time of related tests will get added.

### *Deliverables*

As part of this program, will share the following:

1. Test plan document
2. Test results along with logs
3. Test results review report sent by VMware