

The table below is a list of supported storages by LifeKeeper for Linux v9. Please use this when considering hardware configuration for your environment.

[About Supported Storages]

Storages used as shared storage in LifeKeeper require certification depending on types.

You need to use supported storages for shared storages such as SCSI/FC/SCSI/SAS that refer to the same data from multiple nodes for which LifeKeeper's IO fencing with SCSI-2/3 Reservation is required.

Storages for which prerequisite is not to perform reservation with SCSI-2/3 using Quorum/Witness Server Kit also requires certification. Please check the table below.

[Configuration which does not require certification]

Following configuration doesn't require storage certification:

- NAS storage (requires NAS Recovery Kit)
- All disk devices that make up data replication by DataKeeper (both built-in and external)

[Unsupported hardware]

- Consumer storages that are connected via USB or IEEE1394 are not supported.

| Vendor (*1) | Storage Model | Bus Type | Connect Type (*2) | Support Status | Required ARK(*3) (i.e. Multipath ARK) | Supported LK Version (*4) | Note | |
|--|---|----------------------|----------------------|------------------|---------------------------------------|---------------------------|--|---------------|
| DELL | Dell EqualLogic: P54100 P54110 P54210 P56100 P56110 P56210 P56610 | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | v9.0 - v9.3.1 | With a large number of Luns (over 20), change the REMOTETIMEOUT setting in /etc/default/LifeKeeper to REMOTETIMEOUT=600. | |
| | | | Single Path | YES | DMMP ARK | | | |
| | | | Single Path | NO | - | | | |
| | | FC | vSphere (RDM) | NO | - | | | v9.0 - v9.3.1 |
| | | | Multi Path (DMMP) | YES | DMMP ARK | | | |
| | | | Single Path | NO | - | | | |
| | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | v9.0 - v9.3.1 | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | SAS | vSphere (RDM) | NO | - | v9.0 - v9.3.1 | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | SCV3000 Series: SCV3000 SCV3020 | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | |
| | | | Multi Path (DMMP) | YES | DMMP ARK | | | |
| | | | Single Path | NO | - | | | |
| | | | Multi Path (DMMP) | YES | DMMP ARK | | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | | | v9.0 - v9.3.1 |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | | Multi Path (DMMP) | YES | DMMP ARK | | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| SCV2000 Series: SCV2000 SCV2020 SCV2080 | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | SAS | vSphere | NO | - | | v9.0 - v9.3.1 | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| Dell Storage: SC7020 SC5000 SC4000 | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | | v9.0 - v9.3.1 | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| Dell Compellent: SC9000 SC9000 | FC | vSphere (RDM) | NO | - | - | | | |
| | | Multi Path (DMMP) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | | v9.0 - v9.3.1 | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| Fujitsu | ETERNUS: DX60 S2 DX80 S2 DX90 S2 DX140 S2 DX440 S2 DX8100 S2 DX8700 S2 DX60 S3 DX100 S3 DX500 S3 DX600 S3 DX8700 S3 DX8900 S3 DX2020F DX60 S4 DX100 S4 DX200 S4 DX500 S4 DX600 S4 AF250 AF550 AF750 S2 AF650 S2 | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | |
| | | | Multi Path (DMMP) | YES | DMMP ARK | | | |
| | | | Single Path | NO | - | | | |
| | | | Multi Path (EMPD) | YES | No Multipath ARK | | | |
| | | | Single Path | YES | No Multipath ARK | | | |
| | | | Single Path | YES | No Multipath ARK | | | |
| | | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | | v9.0 - v9.3.1 | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | | Multi Path (EMPD) | YES | No Multipath ARK | | | |
| | | | Single Path | YES | No Multipath ARK | | | |
| | | | Single Path | YES | No Multipath ARK | | | |
| | Hitachi Virtual Storage Platform G1000 Hitachi Virtual Storage Platform G1500 Hitachi Virtual Storage Platform F1500 | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | |
| | | | Multi Path (HCLM) | YES | HCLM ARK | | | |
| | | | Multi Path (DMMP) | YES | DMMP ARK | | | |
| | | | Single Path | YES | - | | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | iSCSI | Multi Path (HCLM) | NO | - | | - | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | | Multi Path (HCLM) | YES | No Multipath ARK | | | |
| | | | Single Path | YES | - | | | |
| | | | Single Path | NO | - | | | |
| Hitachi Virtual Storage Platform Mid Range Family: Hitachi Virtual Storage Platform F900 (VSP F900) Hitachi Virtual Storage Platform F700 (VSP F700) Hitachi Virtual Storage Platform F370 (VSP F370) Hitachi Virtual Storage Platform F350 (VSP F350) Hitachi Virtual Storage Platform G900 (VSP G900) Hitachi Virtual Storage Platform G700 (VSP G700) Hitachi Virtual Storage Platform G370 (VSP G370) Hitachi Virtual Storage Platform G350 (VSP G350) Hitachi Virtual Storage Platform G150 (VSP G150) Hitachi Virtual Storage Platform G130 (VSP G130) | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (HCLM) | YES | HCLM ARK | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | | v9.0 - v9.3.1 | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| Hitachi Virtual Storage Platform Mid Range Family: Hitachi Virtual Storage Platform F800 (VSP F800) Hitachi Virtual Storage Platform F600 (VSP F600) Hitachi Virtual Storage Platform F400 (VSP F400) Hitachi Virtual Storage Platform G800 (VSP G800) Hitachi Virtual Storage Platform G600 (VSP G600) Hitachi Virtual Storage Platform G400 (VSP G400) Hitachi Virtual Storage Platform G200 (VSP G200) Hitachi Virtual Storage Platform G100 (VSP G100) | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (HCLM) | YES | HCLM ARK | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | | v9.0 - v9.3.1 | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| Hitachi Unified Storage VM (HUS VM) | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (HCLM) | YES | HCLM ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | iSCSI | Multi Path (HCLM) | NO | - | | - | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (HCLM) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| Hitachi Unified Storage 100 Series: Hitachi Unified Storage 150 (HUS 150) Hitachi Unified Storage 130 (HUS 130) Hitachi Unified Storage 110 (HUS 110) | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (HCLM) | YES | HCLM ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Multi Path (HCLM) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | iSCSI | Multi Path (HCLM) | NO | - | | - | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (HCLM) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| Hitachi | BR1200 | iSCSI | Multi Path (HCLM) | NO | - | - | | |
| | | | Multi Path (DMMP) | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | SAS | Multi Path (RDAC) | YES | No Multipath ARK | | v9.0 - v9.3.1 | |
| | | | Single Path (RDAC) | YES | No Multipath ARK | | | |
| | | | Single Path (RDAC) | YES | No Multipath ARK | | | |
| | BR1250 | iSCSI | Multi Path (HCLM) | NO | - | - | | |
| | | | Multi Path (DMMP) | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | SAS | Multi Path (NECSPS) | YES | NEC SPS ARK | | v9.0 - v9.3.1 | |
| | | | Single Path (NECSPS) | YES | NEC SPS ARK | | | |
| | | | Single Path (NECSPS) | YES | NEC SPS ARK | | | |
| BR1650E | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (HCLM) | YES | HCLM ARK | | | | |
| | | Single Path | YES | - | | | | |
| | iSCSI | Multi Path (HCLM) | NO | - | | - | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| HPE | Nimble Storage: AF20 AF20Q AF40 AF60 AF80 AF100 AF3000 AF5000 AF7000 AF9000 CS1000H CS1000 CS5000 CS7000 HP20C HP20H HP20 HP40 HP60 | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | v9.2.2 - v9.3.1 | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | FC | vSphere (RDM) | YES | No Multipath ARK | | v9.0 - v9.3.1 | |
| | | | Multi Path (DMMP) | YES | DMMP ARK | | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | 3PAR: 3PAR StoreServ 8200 3PAR StoreServ 8400 3PAR StoreServ 8450 3PAR StoreServ 8450 3PAR StoreServ 7400 3PAR StoreServ 7400c 3PAR StoreServ 7450 3PAR StoreServ 7450c 3PAR StoreServ 7200 3PAR StoreServ 7200c 3PAR StoreServ 9450 3PAR StoreServ 2080 R2 3PAR StoreServ 2080 R2 3PAR StoreServ 2085 R2 3PAR StoreServ 20450 3PAR StoreServ 20800 3PAR StoreServ 20840 3PAR StoreServ 20850 3PAR StoreServ 10400 3PAR StoreServ 10800 | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | |
| | | | Multi Path (DMMP) | YES | DMMP ARK | | | |
| | | | Single Path | NO | - | | | |
| | | | Multi Path (DMMP) | YES | DMMP ARK | | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | | v9.0 - v9.3.1 | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| | | | Multi Path (DMMP) | YES | DMMP ARK | | | |
| | | | Single Path | NO | - | | | |
| | | | Single Path | NO | - | | | |
| MSA: MSA2050 MSA2052 | FC | vSphere (RDM) | YES | No Multipath ARK | v9.2 - v9.3.1 | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | SAS | vSphere (RDM) | NO | - | | - | | |
| | | Multi Path (DMMP) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| StoreVirtual (LeftHand) Series LeftHand OS version 12.6 | FC | vSphere (RDM) | YES | No Multipath ARK | v9.1 - v9.3.1 | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | | v9.1 - v9.3.1 | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| HP P9500 | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Multi Path (HCLM) | YES | HCLM ARK | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | | v9.0 - v9.3.1 | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| IBM SAN Volume Controller * IBM TotalStorage Proven | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Multi Path (DMMP) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | | v9.0 - v9.3.1 | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| IBM Storwize V7000 | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | SAS | vSphere (RDM) | NO | - | | - | | |
| | | Multi Path (DMMP) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| IBM XIV Storage System | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | YES | No Multipath ARK | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | iSCSI | Multi Path (DMMP) | YES | DMMP ARK | | v9.0 - v9.3.1 | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| Lenovo | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (DMMP) | YES | DMMP ARK | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | SAS | vSphere (RDM) | NO | - | | - | | |
| | | Multi Path (DMMP) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Multi Path (DMMP) | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| | | Single Path | NO | - | | | | |
| NEC Storage: H10e H11e H100 H110 H300 H12e H120 H320 | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (NECSPS) | YES | NECSPS ARK | | | | |
| | | Single Path (NECSPS) | YES | NECSPS ARK | | | | |
| | | Multi Path (NECSPS) | NO | - | | | | |
| | | Single Path (NECSPS) | NO | - | | | | |
| | | Single Path (NECSPS) | NO | - | | | | |
| | SAS | vSphere (RDM) | NO | - | | - | | |
| | | Multi Path (NECSPS) | YES | NECSPS ARK | | | | |
| | | Single Path (NECSPS) | YES | NECSPS ARK | | | | |
| | | Multi Path (NECSPS) | NO | - | | | | |
| | | Single Path (NECSPS) | NO | - | | | | |
| | | Single Path (NECSPS) | NO | - | | | | |
| NEC Storage: H310 H310F H320F H500 H510 H700 H710F | FC | vSphere (RDM) | YES | No Multipath ARK | v9.0 - v9.3.1 | | | |
| | | Multi Path (NECSPS) | YES | NECSPS ARK | | | | |
| | | Single Path (NECSPS) | YES | NECSPS ARK | | | | |
| | | Multi Path (NECSPS) | NO | - | | | | |
| | | Single Path (NECSPS) | NO | - | | | | |
| | | Single Path (NECSPS) | | | | | | |