Hitachi Ops Center Protector v7.8
Support Matrix: Oracle Database

Introduction: Agent-based and Agentless protection

Ops Center Protector can provide consistent protection either with or without the use of a host agent.

- Agent based protection performs the application interaction required to provide application aware consistency.
- Agentless protection protects the application data on disk and therefore provides crash consistency. It can also call pre-execution scripts and post-execution scripts as part of a policy to enable the use of user scripts to ensure application aware consistency.

This support matrix describes the environments supported by either method of protection.

Supported Versions[1]

- Oracle 19

Agent Based Protection

Agent based protection provides application consistent protection support with the following operating systems and configurations.

Note: Crash Consistent backup may also be selected for agent based protection.

Operating System[1]		Supported Protection Types		
		Host Based		Storage Based
		Gen 1 Repository	Gen 2 Repository, Gen 2 HCP, Amazon S3	Hitachi Block Hardware
Linux [2][3]	RHEL 8 x64 (8.0 and newer) RHEL 9 x64 (9.0 and newer) OEL 8 x64 (8.0 and newer) OEL 9 x64 (9.0 and newer) SUSE 12 x64 (12.0 and newer) SUSE 15 x64 (15.0 SP1 only)	✖	⚠ (possible via RMAN SBT integration)	✔ (EXT3, EXT4, LVM, ASM)
AIX	AIX v7.x(7.1 TL4 and newer)	✖	✖	✔ (JFS2,ASM)[4]

ASM = Automated Storage Management, NFS = network file system, EXT3 = third extended file system, EXT4 = fourth extended file system, JFS2 = enhanced journal filesystem, LVM = logical volume manager, NFS = network file system, ZFS = zettabyte file system or z file system, VSP = Virtual Storage Platform

Application Configurations	Host Based Backup		Hitachi Block Hardware		
	Batch	Access	Snapshot (TI)	Live Replicate (SI /TC / UR / GAD)	Batch Replicate (TI / SI)
Single Instance	✖	⚠ (possible via RMAN SBT integration)	✔	✔	✔
RAC	✖	⚠ (possible via RMAN SBT integration)	✔	✔	✔

Agentless Protection

Agentless protection provides crash consistent protection for any operating system version and configuration as follows (subject to operating system and application vendor support):

Configurations	Host Based Backup	Hitachi Block Hardware	
	Batch	Snapshot (TI)	Replicate (TI / SI /TC / UR / GAD)
"LDEV based"	❌	✅	✅
VMware	Not Applicable for Oracle		

LDEV = logical device, CDP = continuous data protection, TI = Hitachi Thin Image, TC = Hitachi TrueCopy, UR = Hitachi Universal Replicator, GAD = globalactive device, SI = Hitachi ShadowImage

Oracle RMAN SBT integration (Linux only)

- Supported on the same operating systems as the agent based protection
- Full RMAN SBT functionality is supported with the exception of Oracle's proxy backup

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(1) Note: Support only where standard vendor support is available
(2) It is recommended that Linux source nodes have a logical volume manager (LVM) on each volume group that is to be backed up. A minimum of 10GB of free space is required in the "unused" portion of the LVM, which is in addition to the required space for the allocated storage area. For example, if 100GB of usable storage is required, then the total disk size will be 110GB (100GB of usable storage and 10GB of unused storage).
(3) Linux support for the Intel x86 platforms only
(4) Includes support for LPARs where disks are attached using either physical ports or virtual fibre channel ports (via VIO). Virtual SCSI disks provided by VIO are not supported

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