

Hitachi Data Instance Director (HDID)

Support Matrix: Oracle Database

Introduction: Agent-based and Agentless protection

HDID 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

- Oracle 11 g
- Oracle 12 c

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		File system / ASM	Supported Protection Types		
			Host Based	Storage Based	
			Repository	Hitachi VSP Family	Hitachi NAS Platform
Linux ⁽¹⁾	RHEL 6 x64 (6.7 and newer) RHEL 7 x64 (7.0 and newer) OEL 6 x64 (6.3 and newer) OEL 7 x64 (7.0 and newer) SUSE 11 x64 (11.3 and newer) SUSE 12 x64 (12.0 and newer)	EXT3			
		EXT4 LVM NFS (HNAS)			
		ASM			
IBM® AIX®	AIX v7.x (7.1 TL4 and newer)	JFS2			
		NFS (HNAS)			
		ASM			
Oracle Solaris (Intel)	Solaris 11 (11.0 and newer)	ZFS			
		NFS (HNAS)			
		ASM			
Oracle Solaris (SPARC)	Solaris 11 (11.0 and newer)	ZFS			
		NFS (HNAS)			
		ASM			

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 VSP Family			Hitachi NAS Platform	
	Batch	Realtime/CDP	Snapshot (TI)	Live Replicate (SI /TC / UR / GAD)	Batch Replicate (TI / SI)	Directory Clone	File Replication
Single Instance	✗	✗	✓	✓	✓	✓	✓
RAC	✗	✗	✓	✓	✓	✓	✓

RAC = real application clusters, CDP = continuous data protection, TI = Hitachi Thin Image, TC = Hitachi TrueCopy, UR = Hitachi Universal Replicator, GAD = global-active device, SI = Hitachi ShadowImage

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 VSP Family		Hitachi NAS Platform	
	Batch	Realtime/CDP	Snapshot (TI)	Replicate (TI / SI /TC / UR / GAD)	Directory Clone	File Replication
"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 = global-active device, SI = Hitachi ShadowImage

- (1) 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).
- (2) Includes support for VIO 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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