

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⁽¹⁾

- 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 ⁽¹⁾		Supported Protection Types		
		Host Based	Storage Based	
		Repository	Hitachi VSP Family	Hitachi NAS Platform
Linux ⁽²⁾	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, ASM)	 (NFS)
IBM® AIX®	AIX v7.x (7.1 TL4 and newer)		 ⁽³⁾ (JFS2, ASM)	 (NFS)
Oracle Solaris (Intel)	Solaris 11 (11.0 and newer)		 ⁽⁴⁾ (JFS2, ASM)	 (NFS)
Oracle Solaris (SPARC)	Solaris 11 (11.0 and newer)		 ⁽⁴⁾ (JFS2, ASM)	 (NFS)

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) 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) 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.
- (4) Solaris Zones are not supported

Last Revised: August 2019

Hitachi Vantara Corporation

Corporate Headquarters

2535 Augustine Drive Santa Clara, CA 95054 USA HitachiVantara.com | community.HitachiVantara.com

Regional Contact Information

USA: 1 800 446 0744

Global: 1 858 547 4526

HitachiVantara.com/contact

HITACHI is a trademark or registered trademark of Hitachi, Ltd. IBM and AIX are trademarks or registered trademarks of International Business Machines Corporation. Microsoft, Hyper-V, Windows Server and Windows are trademarks or registered trademarks of Microsoft Corporation. All other trademarks, service marks, and company names are properties of their respective owners.

09 May 2018