

# Hitachi Data Instance Director (HDID) Infrastructure Requirements

## Minimum Specification

Hardware	Source Node and Replication Node <sup>(4)</sup>	Master Node <sup>(4)</sup>	ISM Node <sup>(4)</sup>	Repository Node <sup>(4)(5)</sup>
Memory	As per operating system (OS) recommendation <sup>(1)</sup>	8GB or greater <sup>(6)(8)</sup>	8GB or greater <sup>(6)(8)</sup>	16GB or greater <sup>(6)(7)(8)</sup>
Disk space	500MB for HDID + 16GB for cache + 16GB for filter logs <sup>(3)</sup>	500MB for HDID + 4GB logs	500MB for HDID + 4GB logs	500MB for HDID + 16GB cache per source + repository space <sup>(2)</sup>
RAID	Not required	Not required	Not required	Performance-based RAID, 16GB cache per source node, repository disk space <sup>(2)</sup>
Network interface	Minimum 100Mb/s	Minimum 100Mb/s	Minimum 100Mb/s	Minimum 1,000Mb/s
Processor	2 core, 1 GHz	4 core, 2+ GHz	4-core, 2+ GHz	4+ core, 2+ GHz
Display	Via master	1280 x 1024	Via master	Via master
Third-party software	N/A	N/A		

(1) Minimum of 1 gigabytes (GB) or 2GB for SUSE Linux.

(2) Repository configuration should plan for 16GB of hard disk space for cache per Live Source Node connection. Repository may reside on internal or SAN attached storage. It cannot reside on a network share.

(3) For host-based backups, we recommend 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).

(4) If multiple node capabilities are configured on one node, then the higher specification is required.

(5) If a repository node is being used as an ISM node for hardware orchestration then it must have a Fibre Channel connection to a command device on the storage. iSCSI command devices are not supported.

(6) Configure the page file such that the minimum and maximum page file size are equal and at least 32GB (<https://docs.mongodb.com/manual/administration/production-notes/#production-windows-pagefile>).

(7) If the node is hosted on a VM the memory should be allocated to and reserved for that node rather than being a pooled resource.

(8) This is in addition to the memory required by any other applications running on the machine.

# Browser Support

The following table lists the supported browser versions for accessing the HDID user interface.

Browser	Version
Internet Explorer	11 (and newer)
Disk space	HTML v16 (and newer)
Chrome	63 (and newer)

# Operating System Version Support

Hitachi Data Instance Director Component	Configurations	OS Version <sup>(2)</sup>
Source Node and Replication Node	As per support matrices	As per support matrices
Master Node	Standalone	Microsoft Windows Server 2008 (64-bit) Windows Server 2008 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2012 R2 (64-bit) Windows Server 2016 (64-bit) <sup>(1)</sup> Windows Server 2019 <sup>(1)</sup>
	Microsoft Failover Cluster (MSFC)	Linux RHEL 7 SUSE 12 x64
Repository Node <sup>(3)</sup>	Standalone	Windows Server 2008 (64-bit) Windows Server 2008 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2012 R2 (64-bit) Windows Server 2016 (64-bit) <sup>(1)</sup>
		Linux RHEL 7 SUSE 12 x64
	Microsoft Failover Cluster (MSFC)	Windows Server 2008 (64-bit) Windows Server 2008 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2012 R2 (64-bit) Windows Server 2016 (64-bit) <sup>(1)</sup> Windows Server 2019 <sup>(1)</sup>

<b>ISM Node</b>	Standalone	Windows Server 2008 (64-bit) Windows Server 2008 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2012 R2 (64-bit) Windows Server 2016 (64-bit) <sup>(1)</sup> Windows Server 2019 <sup>(1)</sup>
		Linux RHEL 7 SUSE 12 x64
<b>VMware Proxy Node<sup>(4)</sup></b>	Standalone	Windows Server 2008 (64-bit) Windows Server 2008 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2012 R2 (64-bit) Windows Server 2016 (64-bit) <sup>(1)</sup> Windows Server 2019 <sup>(1)</sup>

(1) Supported only with features compatible with Windows 2012.

(2) Note: Support is provided only where standard vendor support is available.

(3) The ability to host a repository on a Windows-deduplicated volume is not supported.

(4) To support mounting of storage-based snapshots to a VMware virtual machine, the VMware Proxy Node must also be the master.

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