Support Matrix

For HP Parallel Database Cluster for Oracle 10g RAC and / or Application Server (J2EE) on SLES9SP3 Linux X86_64 with: MSA 1500, MSA1000, EVA3000, EVA5000, EVA4000/6000/8000

Product Description

The HP Parallel Database Cluster (PDC) solutions are specifically defined configurations of hardware and software that have been tested and optimized for the Oracle Real Application Clusters and Oracle Application Server (J2EE) environment. By complying with the PDC specification that follows, customers are assured of the shortest time to deployment, a fully functional cluster with maximum availability designed in, and expert PDC specialized Support. Variations from the specification are considered "Custom" implementations and will be supported through standard HP support mechanisms.

Updates and Notes as of 12/06/2006

The following notes apply to the most current version of the PDC for Linux Cluster Kit scripts and processes. Always e-mail RAC_Contact@HP.com to receive the latest scripts and documentation prior to beginning any installation.

PDC Specification and Requirements for RAC

Server Support

Supported sever models:

X86_64 Opteron AMD 64bit extension architecture

DL385
DL585
BL25p
BL45p

Only SCSI internal controllers supported (no SATA)

- Combinations of the PDC supported servers can be used to accommodate cluster expansion etc. It is highly recommended that matched servers (# processors, memory) be used wherever possible.

- Processor requirements/options:
  - Minimum 2 processors per server
  - All available processor speeds for supported models

- Memory requirements per server:
  - Minimum 2 GB highly recommended

- Minimum 2 server nodes, maximum of 8
- Minimum 36GB of local storage

- All other options supported for the server model selected are supported with the PDC.

Supported storage and options:

MSA1000, MSA1500 : Standard configuration rules with the following restrictions apply:

- 2 and 4 GB SAN interconnect components only
- Switches
  - MSA SAN switch 2/8 (integrated)
  - 2 GB Fibre Channel Infrastructure family of switches (external)
  - BladeSystem SAN Switches
- Single path or dual path configurations (i.e. controller, switch, HBA)
- HBA FCA 2214 only (with v7.05.00a driver or later)
- MSA1000 Array Controller Firmware version 4.48 or later
- MSA1000 Environmental Monitoring Unit firmware version 1.86 or later

EVA 3000 v2 and EVA5000 v3 EVA4000/6000/8000: Standard configuration rules apply with the following restrictions:

- 2 and 4 GB SAN interconnect components only

- Switches:
  - 2 GB Fibre Channel Infrastructure family of switches (external)
  - BladeSystem SAN Switches
- Single path or Qlogic Multi path configurations (i.e. controller, switch, HBA)
- HBA – FCA 2214 only (with v7.05.00a driver or later)
- The PDC for Linux with EVA 5000 is qualified with the HSV110 Virtual Array Controller Software (VCS) version 3.020 or later
- The PDC for Linux with EVA 3000 is qualified with the HSV100 Virtual Array Controller Software (VC) version 3.020 or later
- The PDC for Linux with EVA 4000/6000/8000 is qualified with the HSV100 Virtual Array Controller Software (VC) version 5.020 or later
- One HP StorageWorks SAN Management Appliance is required

LUN Persistency kit

The PDC kit has scripts to configure using Udev for LUN persistency on CRS files namely the voting disk and OCR config files.

Cluster Interconnect

- Standard Ethernet or Gigabit Ethernet – highly recommended
- Use common PCI slots across all nodes
- An Ethernet Switch is recommended in all configurations
- Redundant Ethernet configurations are supported (NIC teaming). The following options are available:

1. Redundant Cluster Interconnect only: Must have three NIC ports available. Two for cluster Interconnect and one for public LAN connections.
2. Redundant Cluster Interconnect and Public LAN connections: Must have Four NIC ports available. Two for cluster Interconnect and Two for public LAN connections.

Note: If using Fibre channel NIC cards, you must also use FC cables and FC Ethernet switches. Make sure that NICs are compatible for teaming.

Software components

- SLES9SP3 Linux for x86_64
- Oracle10g Release version 10.2 for x86_64
- Oracle ASMLIB libraries version 2.0.0-1

NOTE: All server nodes must have the same versions of software

PDC RAC SLES9SP3 Linux Installation Utilities Environment Variables

X86-64-bit for Opteron AMD

MSA1500/1000 and EVA 3000/5000/4000/6000/8000

This information is used by the Installation Scripts contained in the PDC Linux cluster kit and is needed for installation updates . Please refer to the Installation Guide for update procedures.

Variable/Software	Initial Tool Parameters (at PDC release)	Current Parameters (Updated versions)
Linux Version Supported	SLES9SP3 Enterprise Linux	SLES9SP3 Enterprise Linux
PROLIANT_SUPPORT_PACK	Proliant Support Pack 7.5	Proliant Support Pack 7.5
ASM Supported ASMLIB	Yes	Yes

PDC Specification and Requirements for OAS

Supported sever models:

- All servers listed under RAC

- Processor requirements/options:
  - Minimum 2 processors per server
  - All available processor speeds for these models

- Memory requirements per server:
  - Minimum 1 GB highly recommended
- Minimum 36GB of local storage

- All other options supported for the server model selected are supported with the PDC.

Software components

- SLES9SP3 Enterprise Linux
- Oracle10g OAS

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