

Reference Hardware Requirement for KVM Deployment

Description

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1 Introduction

This document provides the information about the hardware for KVM DL380 Gen9 / Gen10 deployment, reference hardware, and how to order them.

1.1 Relation Information

Trademark information, typographic conventions, and definition and explanation of abbreviations and terminology can be found in the following documents:

- Trademark Information
- Typographic Conventions
- Glossary of Terms and Acronyms

2 Requested Hardware

The following hardware are required:

- For Basic deployment, 2 HP DL380 Gen9 (G9) servers, or 2 HP DL380 Gen10 (G10) servers (referred to in this documents as "Host1" and "Host2") are needed.
- For Single Server deployment, 1 HP DL380 Gen9 server, or 1 HP DL380 Gen10 server (referred to in this document as "Host1") are needed.
- Two 366T Ethernet Adaptors are required for Gen10 server, One or two 366T Ethernet Adaptors are required for Gen9 server.

3 Reference Hardware List

Table 1 lists the reference hardware information for each G9.



Table 1 Hardware Specification

Hardware	Description
Intel® Xeon® E5-2640v3	2 CPU 2 processors (2*8=16 cores)
Memory	Minimal 64 GB 128 GB is recommended
Hard Drive	2 x HP 600 GB 12G SAS 10K 2.5in SC ENT HDD or 4 x HP 300 GB 12G SAS 10K 2.5in SC ENT HDD
Optical Drive	HP 9.5 mm SATA DVD-ROM Jb Gen9 Kit
Power Supply	AC: 2 HP 800 W FS Plat Ht Plg Pwr Supply Kit or DC: HP 800 W FS -48 VDC Ht Plg Pwr Supply Kit
Ethernet Port	4 x 1 GB ports embedded. 4 x 1 GB ports on extended network card. It is recommended to use HP 366T/366FLR which supports Intel DPDK technology.
HP Storage Controllers	HP Smart Array P440ar/2G FIO Controller

Table 2 lists the reference hardware information for each G10.

Table 2 Hardware Specification

Hardware	Description
Intel® Xeon® Gold 5118 Processor	2 CPU 2 processors (2 × 12 = 24 cores)
Memory	128 GB
Hard Drive	2 × HP 600 GB 12G SAS 10K 2.5in SC ENT HDD
Optical Drive	Optional
Power Supply	AC: 2 HP 800 W
Ethernet Port	4 × 1 GB ports embedded. 8 × 1 GB ports on two extended network cards. It is recommended to use HP 366T/366FLR which supports Intel DPDK technology.
HP Storage Controllers	HP Smart Array P440ar/2G FIO Controller



4 How to Order Reference Hardware

The reference hardware required by IPWorks software is ordered through Partner Platform. For each DL380 G9 / G10 server, order the following products:

Table 3 Hardware Products Per Each DL380 G9 Server

Product Number	Product	Quantity
INE 105 4606/0196	DL 380G9, 2x8C, E5-2640V3, 128G, 2x300GB	1
INE 105 4606/0269	HPE 300GB 12G SAS 10K 2.5	2
INE 105 4606/0265	HPE Ethernet 1Gb 4-port 366T Adapter ⁽¹⁾	1 or 2 ⁽²⁾

(1) The 366T adaptor is used to replace the 331FLR adaptor in "INE 105 4606/0196".

(2) 1 for single DPDK, 2 for dual DPDK.

Table 4 Hardware Products Per Each DL380 G10 Server

Product Number	Product	Quantity
INE 105 4606/0398	DL380 Gen10 2 × 12C G-5118, 128GB	1
INE 105 4606/0265	HPE Ethernet 1Gb 4-port 366T Adapter ⁽¹⁾	2

(1) The 366T adaptor is used to replace the 331FLR adaptor in "INE 105 4606/0398".





Reference List

Ericsson Documents

- [1] Trademark Information
- [2] Typographic Conventions
- [3] Glossary of Terms and Acronyms
- [4] IPWorks Technical Description
- [5] IPWorks Network Connectivity Overview
- [6] IPWorks Deployment Guide, 21/1553-AVA 901 33/2 Uen
- [7] IPWorks Auto Deployment Guideline for KVM - DL380 Gen9, 19/1553-AVA 901 33/2 Uen