HP ProLiant SL Servers Solution Overview
Setup Poster

Abstract

This document describes setup requirements and procedures for ProLiant SL server solutions. HP assumes you are qualified in the servicing of computer equipment and trained in recognizing hazards in products with hazardous energy levels.

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⚠ Important Safety Information

Before installation, read *Important Safety Information* on the Documentation CD.
قبل التثبيت، اقرأ معلومات هامة حول السلامة على القرص المضغوط Documentation CD.
Před instalací si přečtěte příručku *Důležité bezpečnostní informace* na disku CD.
安装之前，请阅读文档 CD 上的*重要安全信息*。
安裝前，請閱讀說明文件光碟上的「*重要的安全性資訊*」。
Læs dokumentet Vigtige sikkerhedsoplysninger på dokumentations-cd'en, før produktet installeres.
Lesen Sie vor der Installation die *Sicherheitshinweise* auf der Documentation CD.
Enne installimist vt dokumentatsiooni CD-lt peatükki *„Tähtis ohutusteave"*.
Antes de la instalación, lea la sección *Información de seguridad importante* del CD Documentación.
Avant l'installation, lisez les *informations importantes relatives à la sécurité* CD Documentation.
Πριν την εγκατάσταση, διαβάστε *Σημαντικές πληροφορίες ασφαλείας* στο CD Documentation.
לפני ההתקנה, קרא את *המידע הבטיחותי החשוב* שב-Documentation CD (תקליטור התיעוד)
Prije ugradnje, pročitajte *Važne sigurnosne informacije* na dokumentacijskom CD-u.
Prima dell'installazione, leggere sul CD le Informazioni importanti sulla sicurezza.
インストール前に、Documentation CDの『安全に使用していただくために』をお読みください。
설치하기 전에 Documentation CD의 *주요 안전 수칙*을 읽으십시오.
Pirms instalācijas, izlasiet drošības informāciju dokumentācijas CD.
Prieš diegdami perskaitykite *Svarbią saugos informaciją* dokumentacijos CD.
Telepítés előtt olvassa el a dokumentációs CD *Fontos biztonsági tudnivalók* dokumentumát.
Lees de *Belangrijke veiligheidsinformatie* op de documentatie-cd voordat u de installatie uitvoert.
Les "Viktig sikkerhetsinformasjon" på dokumentasjons-CDen før du installerer dette produktet.
Przed instalacją przeczytaj *Ważne informacje dotyczące bezpieczeństwa* na dysku CD Documentation.
Antes da instalação, leia as *Informações Importantes sobre Segurança* no CD da Documentação.
Перед установкой ознакомьтесь с разделом *Указания по технике безопасности* на компакт-диске «Документация».
Pred inštaláciou si prečítajte časť *Dôležité bezpečnostné informácie* na disku Documentation CD.
Pred namestitvijo preberite *Pomembne varnostne informacije* na CD-ju Documentation.
Tärkeisiin turvatietoihin" Documentation CD -levyllä ennen tuotteen asentamista.
Läs dokumentet Viktig säkerhetsinformation på dokumentations-cd:n innan du installerar denna produkt.
Yüklemeden önce, Documentation CD'sindeki *Önemli Güvenlik Bilgileri*'ni okuyun.
Перед установкою прочитайте *Важливі відомості з безпеки* на CD документації.

Translated versions

To view, select a language:

- English **(http://www.hp.com/support/SLSSOverview_SP_en)**
- Français **(http://www.hp.com/support/SLSSOverview_SP_fr)**
- Español **(http://www.hp.com/support/SLSSOverview_SP_sp)**
- Deutsch **(http://www.hp.com/support/SLSSOverview_SP_gr)**
- 日本語 **(http://www.hp.com/support/SLSSOverview_SP_jp)**
- 简体中文 **(http://www.hp.com/support/SLSSOverview_SP_sc)**

Site requirements

Select an installation site that meets the detailed installation site requirements described in the server user guide on the Documentation CD and on the HP ProLiant Gen8 Server Management Information Library **(http://www.hp.com/go/proliantgen8/docs)**.

Rack planning resources

The rack resource kit ships with all HP branded or Compaq branded 9000, 10000, and H9 series racks. For more information on the content of each resource, see the rack resource kit documentation.

Software prerequisites

- If you are deploying multiple servers or prefer to install the operating system remotely, use HP Insight Control automated server deployment. For more information, see the *HP Insight Control Server Deployment User Guide* on the HP Insight Software Information Library (**http://www.hp.com/go/insightcontrol/docs**).
- HP Intelligent Provisioning is a single-server deployment tool that is embedded in ProLiant Gen8 servers. It eliminates the need for SmartStart CDs and Smart Update Firmware DVDs. For more information about Intelligent Provisioning, see the *HP Intelligent Provisioning User Guide* at the Information Library (**http://www.hp.com/go/intelligentprovisioning/docs**).

IMPORTANT: HP ProLiant SL servers do not support operating system installations with Intelligent Provisioning. ProLiant SL servers currently support Intelligent Provisioning maintenance features only.

For a detailed installation and configuration checklist, see the *HP ProLiant Gen8 Server and iLO Management Engine Setup Guide* on the Documentation CD or the HP ProLiant Gen8 Server Management Information Library (**http://www.hp.com/go/proliantgen8/docs**).

1 Before you begin

Research and develop a solution

To begin researching the HP ProLiant SL server solution, see the ProLiant SL server technical resources website (**http://www.hp.com/support/SL_servers**). The website includes white papers, tech briefs, instructions, best practices, helpful hints, useful links, and suggestions for setting up and configuring the solution.

Unpack the system

The chassis and components ship with hard copy installation instructions. When unpacking, be sure to locate all hard copy installation instructions.

Compile the documentation

The documentation, while delivered individually and in various formats, works as a system. Consult these documents before attempting installation. These documents provide required important safety information and decision-making steps for configuration.

- The enclosed documentation includes the following:
  - *HP ProLiant SL Servers Solution Overview Setup Poster*
  - *HP ProLiant SL Servers Quick Setup Instructions*
  - HP ProLiant s6500 Chassis Documentation CD, including safety information, the enclosure setup and installation guide, Intelligent Provisioning documentation, and other useful links
- The following items are available on the HP SL solutions documentation website (**http://www.hp.com/support/SL_servers**):
  - Useful links to ProLiant SL server technical information like Quick Specs and Customer advisories
  - The installation checklist, used to collect information needed for installation and configuration
  - User documentation, such as user guides, quick install cards, and troubleshooting information
  - Copies of all the material included with the chassis
  - Numerous white papers and technical briefs on various ProLiant SL server components

Determine power and cooling configurations

Validate power and cooling requirements based on location and installed components.

ProLiant Power Interface Control Utility

HP ProLiant Power Interface Control Utility is a command-line utility performing power display and control power functions for the chassis. You can use the utility and the embedded Power Management Controller to set different power levels or chassis power capping.

The utility provides the following:

- Chassis fan controls
- Chassis power control
- Server fans and power through BMC, iLO, and BIOS
- Capability to power up servers based on power capacity
- Power emergency break support
- Capability to set the chassis power level through PPIC utilities with BMC and iLO

For more information or to download the ProLiant Power Interface Control Utility, see the HP website **(http://www.hp.com/support/ppicu_dr)**.

HP ProLiant SL Advanced Power Manager overview

HP ProLiant SL Advanced Power Manager ("SL APM") is a single point of contact for HP ProLiant Scalable System administration.

To install, configure, and access SL APM, see the *HP ProLiant SL Advanced Power Manager User Guide* on the HP website **(http://www.hp.com/support/SLAPM_UG_en)**.

2 Install the chassis

The s6500 chassis can be installed either in a rack or rack-free environment. For rack installations, install the rack rails, and then install the chassis and other components.

For more information, see the *HP ProLiant s6500 Chassis Setup and Installation Guide, Quick Deploy Rail System Installation Instructions* that ship with the rack hardware kit, and applicable installation instructions.

3 Install the options

Install any hardware options before initializing the node. For options installation information, see the documentation that ships with the option. For node-specific information, see the node user guide on the HP website **(http://www.hp.com/support/SL_servers)**.

4 Install the components

WARNING: The node is very heavy. To reduce the risk of personal injury or damage to the equipment:

- Reduce the weight of the node by removing the hard drives and power supplies before installing the server into the rack.
- At least two people are required to lift the node during installation or removal.

CAUTION: Always plan the rack installation so that the heaviest item is on the bottom of the rack. Install the heaviest item first, and continue to populate the rack from the bottom to the top.

Before installing front or rear components into the s6500 chassis, review s6500 chassis bay numbering for each component. For slot numbering information, see the quick setup instructions.

Based on the total number ordered and the planned configuration, install the following components:

- Nodes
- Power supplies
- System fans

For more information, see the appropriate chassis setup and installation guide and the node installation instructions.

5 Power up the chassis

Connect the AC or DC power cables, depending on the power configuration. When the circuit breakers are powered, the chassis and HP ProLiant SL Advanced Power Manager have power. By default, each installed component also powers up. Examine the HP ProLiant SL Advanced Power Manager for any errors which may prevent installed components from powering up.

6 Configure the chassis

For further information on setting up and configuring your system, see the *HP ProLiant s6500 Chassis Quick Setup Instructions and the HP ProLiant s6500 Chassis Setup and Installation Guide*.

7 Power up and select boot options

1. Connect the Ethernet cable and press the **Power On/Standby** button.
2. To modify the server configuration ROM default settings using RBSU, press **F9** when prompted during the initial boot. By default, RBSU runs in the English language.

NOTE: If an HP Smart Array controller has been added or is embedded in the system, the controller defaults to a RAID configuration based on the size and number of hard drives installed. For more information on modifying the controller default settings, see the documentation on the Documentation CD.

For more information on automatic configuration, see the *HP ROM-Based Setup Utility User Guide* on the Documentation CD or the iLO Management Engine Information Library **(http://www.hp.com/go/ilomgmtengine/docs)**.

8 Install the system software

To operate properly, the node must have a supported operating system installed. For information about operating systems supported by ProLiant servers, see the operating system support matrices (**http://www.hp.com/go/supportos**).

To install an operating system on the node, use one of the following methods:

- Manual Installation—Insert the operating system CD into the USB-attached DVD-ROM drive (user provided) and reboot the node. You must download the HP Service Pack for ProLiant from the SPP download site (**http://www.hp.com/go/spp/download**) and create SPP media so that you can install the drivers.
- Remote deployment installation—Use Insight Control server deployment for an automated solution to remotely deploy an operating system

To access and configure Intelligent Provisioning on a single node:

1. Access Intelligent Provisioning by rebooting the server and pressing **F10**.
2. The first time you log into Intelligent Provisioning, follow the steps to set preferences and activate Intelligent Provisioning.
3. From the Home screen, click **Perform Maintenance**, and then click **Firmware Update**.
4. Ensure the latest drivers are available for installation. Select **Intelligent Provisioning Software** from the list of firmware, and click **Update**. If the check box is not selected, the latest drivers are already installed.

To update your drivers and system software:

Intelligent Provisioning automatically integrates optimized ProLiant server support software from the HP SPP. For more information on using SPP, see the *HP Service Pack for ProLiant User Guide* on the HP website (**http://www.hp.com/support/SPP_UG_en**).

For more information on using these installation methods, see the HP website (**http://www.hp.com/go/ilo**).

9 Register the server

To register the server, refer to the HP Registration website **(http://register.hp.com)**.

Troubleshooting resources

The *HP ProLiant Gen8 Troubleshooting Guide, Volume I: Troubleshooting* provides procedures for resolving common problems and comprehensive courses of action for fault isolation and identification, issue resolution, and software maintenance on ProLiant servers and server blades. The *HP ProLiant Gen8 Troubleshooting Guide, Volume II: Error Messages* provides a list of error messages and information to assist with interpreting and resolving error messages on ProLiant servers and server blades.

The documents are on the Documentation CD and on the HP website (**http://www.hp.com/go/proliantgen8/docs**).

For definitions of the acronyms used in this document, refer to "Acronyms and abbreviations" on the Documentation CD.

Documentation feedback

HP is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (**mailto:docsfeedback@hp.com**). Include the document title and part number, version number, or the URL when submitting your feedback.