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HEWLETT PACKARD P06420-B21

Hpe ProLiant DL380 Gen10 Server User Manual

Model: P06420-B21

1. INTRODUCTION

The Hpe ProLiant DL380 Gen10 Server is a versatile and resilient 2P 2U rack server designed to adapt for diverse workloads and environments. It delivers world-class performance with an optimal balance of expandability and scalability, making it a trusted compute platform for various enterprise needs.



This image displays the front of the Hpe ProLiant DL380 Gen10 Server, highlighting its rack-mountable design, the prominent HPE logo on the front grille, and various indicator lights.

2. SETUP

Proper setup is crucial for the optimal performance and longevity of your Hpe ProLiant DL380 Gen10 Server. Follow these general guidelines for initial installation:

- Unpacking and Inspection:** Carefully remove the server from its packaging. Inspect the server and all included components for any signs of shipping damage. Ensure all items listed in the packing slip are present.
- Physical Installation:** Install the server into a standard 19-inch rack. Ensure adequate airflow around the server for proper cooling. Refer to the rack installation guide for specific instructions on rail kit installation and server mounting.
- Power Connection:** Connect the power cords to the server's power supply units and then to a grounded power outlet or uninterruptible power supply (UPS). It is recommended to use both power supplies for redundancy.
- Network Connection:** Connect the server to your network infrastructure using appropriate Ethernet cables. Utilize the integrated network adapters for primary network connectivity.

5. **Peripheral Connections:** Connect any necessary peripherals such as a keyboard, mouse, and monitor for initial configuration, if not using remote management.
6. **Initial Power On:** Once all connections are secure, press the power button on the front panel to power on the server. Observe the indicator lights for system status.

3. OPERATING

Operating the Hpe ProLiant DL380 Gen10 Server involves managing its power state and accessing its various interfaces for system administration.

- **Powering On:** Press the power button located on the front panel. The system will initiate its boot sequence.
- **Powering Off:**
 - **Graceful Shutdown:** It is highly recommended to perform a graceful shutdown through the operating system (e.g., Windows 10, Linux) to prevent data corruption.
 - **Force Shutdown:** In emergency situations, press and hold the power button for approximately 5 seconds until the server powers off. Use this method only when a graceful shutdown is not possible.
- **Accessing Management Interfaces:**
 - **Integrated Lights-Out (iLO):** The iLO management processor provides remote server management capabilities, including virtual console access, power control, and health monitoring. Access iLO via a web browser using its assigned IP address.
 - **Operating System:** Once the operating system is loaded, you can manage the server directly through its graphical user interface (GUI) or command-line interface (CLI).

4. MAINTENANCE

Regular maintenance helps ensure the reliability and performance of your Hpe ProLiant DL380 Gen10 Server.

- **Cleaning:** Periodically clean the server's exterior and ensure ventilation openings are free from dust and debris. Use compressed air to gently clear dust from internal components if necessary, ensuring the server is powered off and unplugged.
- **Firmware and Driver Updates:** Regularly check the official HPE support website for the latest firmware updates for the server, iLO, and other components, as well as updated drivers for your operating system. Apply updates as recommended.
- **Component Checks:** Periodically inspect internal components such as fans, cables, and expansion cards for secure connections and signs of wear.
- **Data Backup:** Implement a robust data backup strategy to protect critical information stored on the server.

5. TROUBLESHOOTING

This section provides guidance for common issues you might encounter with your Hpe ProLiant DL380 Gen10 Server.

Common Issues and Solutions:

| Problem | Possible Cause | Solution |
|---------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Server does not power on. | Power cables disconnected, faulty power supply, power button issue. | Verify power cable connections. Check power supply status indicators. Test with a different power outlet. |

| Problem | Possible Cause | Solution |
|-----------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| No network connectivity. | Loose network cable, incorrect network configuration, faulty network adapter. | Ensure network cables are securely connected. Verify network settings in the operating system. Check network adapter status in iLO or OS. |
| System performance is slow. | High CPU/memory usage, insufficient storage I/O, overheating. | Monitor resource utilization. Check disk health. Ensure proper ventilation and cooling. |
| Error messages during boot. | Hardware failure, BIOS/UEFI settings issue, operating system corruption. | Note the error message and consult the HPE support documentation. Check hardware status in iLO. |

For more detailed troubleshooting, refer to the official HPE ProLiant DL380 Gen10 Server documentation available on the HPE support website.

6. SPECIFICATIONS

Key technical specifications for the Hpe ProLiant DL380 Gen10 Server (Model: P06420-B21):

| Feature | Detail |
|----------------------------|----------------------------------------------------------|
| Brand | Hpe |
| Series | ProLiant DL380 Gen10 |
| Item Model Number | P06420-B21 |
| Operating System | Windows 10 (Note: Server OS typically installed by user) |
| Processor | 2.1 GHz Xeon Silver 4110 |
| Number of Processors | 1 (Configurable for 2P) |
| Hard Drive | 1 TB HDD (Serial ATA, 7205 RPM) |
| Computer Memory Type | DDR4 SDRAM |
| Graphics Coprocessor | Integrated Graphics |
| Number of USB 3.0 Ports | 3 |
| Item Weight | 29.7 pounds |
| Product Dimensions (LxWxH) | 26.7 x 17.5 x 3.4 inches |
| Color | Black |
| Date First Available | June 3, 2018 |

7. WARRANTY AND SUPPORT

For warranty information and technical support regarding your Hpe ProLiant DL380 Gen10 Server, please refer to the official Hewlett Packard Enterprise (HPE) support resources.

- **Official Documentation:** The server typically includes a "User Guide" (as indicated in "What's in the box"). Comprehensive documentation, including detailed installation guides, service manuals, and troubleshooting guides, is available on the HPE support website.
- **HPE Support Website:** Visit the official HPE website and navigate to the support section for ProLiant servers. You will find drivers, firmware, knowledge base articles, and contact information for technical assistance.
- **Protection Plans:** Additional protection plans may be available for purchase to extend coverage beyond the standard warranty. Consult your reseller or HPE for details on available service agreements.

IMPORTANT NOTE ON VIDEOS

No official product videos from the seller were available for inclusion in this manual. For visual guides or demonstrations, please check the official HPE support channels or authorized resellers.

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