



Technical Whitepaper

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Installation of Server OS on HP Workstations

HP Z8 Fury, Z8, Z6, Z4, Z4 Rack G5 and Z6 G5 A series Workstations



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Before you begin

Before starting this process, note the following:

- It is very important to be aware of the Microsoft Windows® operating system licensing requirements. Contact your Microsoft licensing representative for the proper licensing requirements.
- The Web URLs listed in this document are for additional reference. URLs are subject to change or termination. HP makes no attempt to assure that these URLs are current.
- By providing this document, HP is not liable for providing any additional consulting services. Contact your HP Sales Representative or Channel Partner to arrange for additional HP Consulting Services.
- This document is not meant to be comprehensive in supporting all the possible configurations of the HP Z8 Fury, Z8, Z6, Z4, Z4 Rack G5 and Z6 G5 A series Workstations. Instead, it provides sufficient information to enable key hardware devices.



Warning

Following the installation steps outlined in this document will erase your hard drive. If your hard drive already contains information you need to retain, be sure to make a backup copy to a separate location before proceeding with the installation.

Things You Need Before You Begin

Make sure you have the following items before you begin:

- This document.
- Additional information that will assist your installation, such as: hardware inventory and applications and OS licensing.

Support Plan

HP does not sell or support the Microsoft Windows® Server operating system on the HP Z8 Fury, Z8, Z6, Z4, Z4 Rack G5 and Z6 G5 A series Workstations.

Microsoft Support

The HP Z8 Fury, Z8, Z6, Z4, Z4 Rack G5 series Workstations are certified by Microsoft for the Windows® 10 Pro (64-bit) operating system, version 20H1, and the Windows® 11 Pro (64-bit) operating system, version 22H2. The HP Z6 G5 A Workstation is certified by Microsoft for the Windows® 11 Pro (64-bit) operating system. The HP Z8 Fury, Z8, Z6, Z4, Z4 Rack G5 and Z6 G5 A series Workstations are not certified by Microsoft for any Windows® Server operating system.

HP Support

All HP support provided for the HP Z8 Fury, Z8, Z6, Z4, Z4 Rack G5 and Z6 G5 A series Workstations is subject to and governed by the terms and conditions pursuant to which you received the system and its related package and options from HP. Hardware support will be covered under the standard warranty and support or related upgrade options that were purchased with the system. Support can only be provided if issues have been duplicated on a supported operating system.



Operating System Installation Process

This section will detail the steps to install Windows® Server 2022 operating system (OS) on the desired HP workstation.

Step 1: Have the Windows® Server 2022 operating system media readily accessible.

Step 2: Obtain Plug-and-Play drivers for the HP Z8 Fury, Z8, Z6, Z4, Z4 Rack G5 and Z6 G5 A series Workstations:

The Intel® storage drivers (AMD storage drivers for the HP Z6 G5 A) are required to install the OS on the HP Workstation system and can be found in the driver lists below. Additional drivers are needed after OS installation for full functionality of some system devices, including the chipset, management engine (Intel® platforms), and onboard network adapter. HP recommends installing the latest drivers to ensure the best system performance. Refer to the driver list below for more information.

Updated drivers for HP Workstation products can be obtained from www.hp.com or the HP Image Assistant (HPIA). Microsoft Windows® 10 Pro 21H2 (64-bit) drivers should be used on HP Workstation products to substitute for Microsoft Windows® Server 2022 drivers, when possible. Drivers may only be available for Windows® 10 Pro 22H2 (64-bit) or later, and in some cases may not install correctly. Drivers from the “Windows 10 (64-bit)” section may substitute in some cases. To obtain the appropriate drivers:

• Go to the appropriate site depending on the system being imaged:

- o http://www.hp.com/support/Z8_Fury_G5
- o http://www.hp.com/support/Z8_G5
- o http://www.hp.com/support/Z6_G5
- o http://www.hp.com/support/Z4_G5
- o http://www.hp.com/support/Z4_Rack_G5
- o http://www.hp.com/support/Z6_G5_A

• Navigate to: Download drivers and software -> Microsoft Windows® 10 (64-bit)

Step 3: Install Microsoft Windows® Server 2022 operating system from DVD or USB media. Please refer to <https://docs.microsoft.com/en-us/windows-server/get-started-19/get-started-19> for information regarding the available installation options.

Note

• **To install using UEFI (Unified Extensible Firmware Interface)**

To install using UEFI, boot to the media by hitting the F9 key during BIOS POST and select the UEFI - DVD/CDROM option to boot to the optical drive containing the OS media, or UEFI - USB option to boot to your USB flash drive containing the OS media.

To use UEFI, the destination hard drive must not have an existing MBR partition. UEFI requires a new partitioning method referred to as GPT. (See the Microsoft “Windows® and GPT FAQ” at <https://learn.microsoft.com/en-us/windows-hardware/manufacture/desktop/windows-and-gpt-faq?view=windows-11> for more details.) If you wish to install via UEFI and ensure there is no existing MBR partition, delete the existing volumes shown during the Microsoft Windows® Server 2022 setup. More information on installing via UEFI can be found in the HP Support Document “HP Z420, Z620, and Z820 Workstations - Installing UEFI-Based Microsoft Windows 7 (x64)”

• **To install using MBR (Master Boot Record)**

To install using an MBR partition, boot to the media by hitting the F9 key during BIOS POST and select Legacy - DVD/CDROM option to Legacy boot to the optical drive containing the OS media. Make sure Legacy Mode is enabled in the BIOS.

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Step 4: Update drivers

HP recommends updating the drivers on the system. At the very least, the BIOS, chipset, network adapter, management engine, and graphics drivers should be updated to enable full system functionality and features.

Download the following Microsoft Windows® 10 Pro (64-bit) driver or newer SoftPaqs:

Download link: [HP Image Assistant \(HPIA\)](#)

Intel® Platforms (Z8 Fury, Z8, Z6, Z4, Z4 Rack)

Driver	Version	Softpaq #	Purpose
HP Z4/6/8/Fury-G5 Workstation System BIOS Windows	1.01.27	SP150233	This package contains the System BIOS image and flash utilities for the HP Z8 Fury, Z6, Z4 G5 Workstations. These utilities can be used to restore or update the System BIOS. System BIOS is independent of the Operating System.
HP Z8G5 Workstation System BIOS Windows	1.01.28	SP150219	This package contains the System BIOS image and flash utilities for the HP Z8 Workstation. These utilities can be used to restore or update the System BIOS. System BIOS is independent of the Operating System.
HP Z4 Rack G5 Workstation System BIOS Windows	1.01.14	SP150365	This package contains the System BIOS image and flash utilities for the HP Z4 Rack G5 Workstation. These utilities can be used to restore or update the System BIOS. System BIOS is independent of the Operating System.
HP Z4 G5, Z6 G5, Z8 G5 Windows 10 x64 Driver Pack***	4.00 A1	SP150498	This package provides the drivers for the integrated and select add-in devices in an INF format.
HP Z4 Rack G5 Windows 10***	2.00 A1	SP149689	This package provides the drivers for the integrated and select add-in devices in an INF format.

*** Certain drivers for the Z8 Fury, Z8, Z6, Z4, Z4 Rack G5 series workstations are not signed for the Windows® Server Operating System and may not install correctly.



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AMD Platforms (Z6 G5 A)

Driver	Version	Softpaq #	Purpose
HP Z6 Avalanche G5A Wks BIOS Windows	01.01.13	SP150985	System BIOS for the Z6 G5A Workstation. These utilities can be used to restore or update the System BIOS. System BIOS is independent of the Operating System.
AMD RAID Drivers for Windows	9.3.2.195 Rev. A	SP150128	This package contains the AMD RAIDXpert2 Graphical User Interface (GUI) and Windows drivers. These components allow for the creation and management of NVMe RAID arrays.
Intel® I219 Network Driver	12.19.2.56 Rev. C	SP151646	This package contains the driver for the Intel® LAN on Motherboard (LOM) Network Interface in supported workstation models running a supported operating system.
AMD Professional Graphics Driver	23.10.18.15 Rev. K	SP151377	This package provides the AMD Radeon Professional Graphics Driver (DCH) for supported models running a supported operating system
NVIDIA Professional Graphics Driver	551.61 Rev. P	SP151562	This package provides the NVIDIA Professional Graphics Driver for supported models running a supported operating system.
AMD Chipset Drivers WKS G5A	5.07.19.2212 Rev. C	SP150013	This package contains the AMD chipset drivers for the listed workstation model and operating systems.
AMD Audio Co-Processor Chipset Drivers WKS G5A	6.0.0.76 Rev. C	SP150018	This package contains the AMD Audio Co-Processor Chipset Drivers for the supported Workstation models and operating systems for Win 10 and 11.
Seamless Firmware Update Service	1.0.3.9 Rev. B	SP145113	Seamless Firmware Update service is a virtual driver and installed service that enables Seamless Firmware Update capability to be activated by the arrival of BIOS Firmware Capsules pulled from Windows Update.
HP Application Enabling Software Driver	1.62.3534.0 Rev. A	SP150857	This package provides the HP Application Enabling Software Driver for supported computer models running a supported operating system. HP Application Enabling Software Driver is a virtual driver that offers general custom capabilities utilized among HP applications after transferring to the Microsoft Store app with HSA architecture.
HP Z6 G5 A Windows 10***	1.00 Rev. A	SP150537	This package provides the drivers for the integrated and select add-in devices in an INF format. This format is compatible with bare-metal Operating System deployment tools that require INF based drivers.

*** Certain drivers for the HP Z6 G5 A workstation are not signed for the Windows® Server Operating System and may not install correctly.



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Summary

Thank you for your purchase of, and interest in, HP Workstations. We hope this document was useful. For additional products and services that might meet the needs for your organization, please contact your HP Sales Representative or Channel Partners.

Appendix A: Additional HP support URLs

- HP Workstations
<https://www.hp.com/us-en/workstations/workstation-pcs.html>
- HP support and drivers
<https://support.hp.com/us-en/drivers>
- HP driver subscriptions, alerts and notifications
<https://www.hp.com/us-en/services/subscription-management-service.html>
- HP Z8 Fury G5 Workstation Desktop PC Support Page
<https://support.hp.com/us-en/product/hp-z8-fury-g5-workstation-desktop-pc/2101236624>
- HP Z8 G5 Workstation Desktop PC Support Page
<https://support.hp.com/us-en/product/hp-z8-g5-workstation-desktop-pc/2101236626>
- HP Z6 G5 Workstation Desktop PC Support Page
<https://support.hp.com/us-en/product/hp-z6-g5-workstation-desktop-pc/2101336701>
- HP Z4 G5 Workstation Desktop PC Support Page
<https://support.hp.com/us-en/product/hp-z4-g5-workstation-desktop-pc/2101336703>
- HP Z4 Rack G5 Workstation Desktop PC Support Page
<https://support.hp.com/us-en/product/details/hp-z4-rack-g5-workstation/2101669428>
- HP Z6 G5 A Workstation Desktop PC Support Page
<https://support.hp.com/us-en/product/details/hp-z6-g5-a-workstation-desktop-pc/2101669430>

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