

TECHNICAL WHITEPAPER

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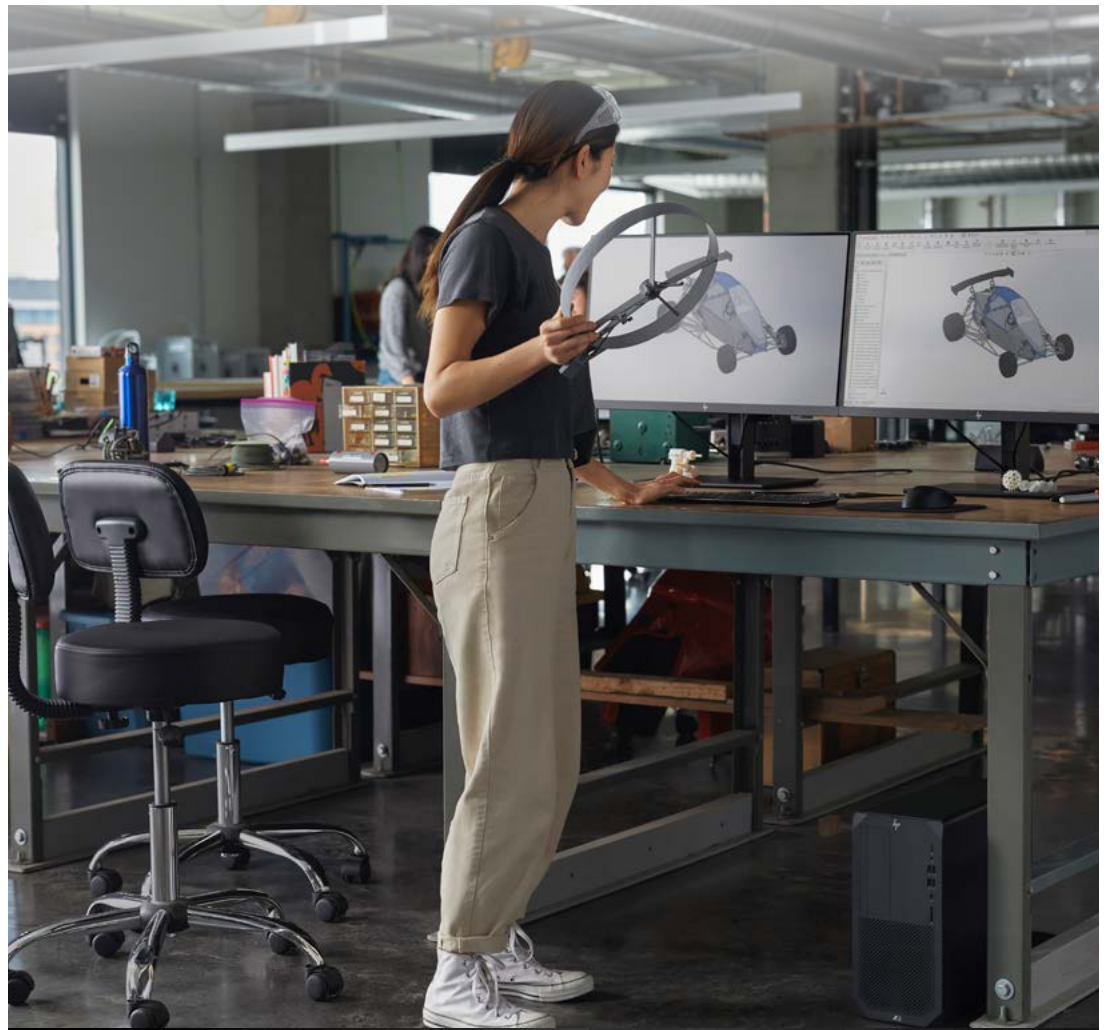
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INSTALLING SERVER OS ON HP Z2 G5 SERIES AND ZCENTRAL 4R WORKSTATIONS

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 Z2 G5 series and ZCentral 4R 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.



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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 the HP Z2 G5 series and ZCentral 4R Workstations.

Microsoft support

The HP Z2 G5 series and ZCentral 4R Workstations are certified by Microsoft for the Windows 10 Pro (64-bit) operating system, versions 1809, 1903/1909, 2004/20H2. The Z2 G5 series and ZCentral 4R Workstations are not certified by Microsoft for any Windows® Server operating system.

HP support

All HP support provided for the HP Z2 G5 series and ZCentral 4R 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 2019 operating system (OS) on the desired HP Workstation.

Step 1: Have the Windows Server 2019 operating system media readily accessible.

Step 2: Obtain Plug-and-Play drivers for the HP Z2 G5 series and/or ZCentral 4R Workstations:

The Intel® storage drivers are required to install the OS on the HP Workstation system, and can be found in the driver list below. Additional drivers are needed after OS installation for full functionality of some system devices, including the chipset, management engine (ME), 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 (64-bit) drivers should be used on HP Workstation products to substitute for Microsoft Windows® Server 2019 drivers. To obtain the appropriate drivers:

To obtain the appropriate drivers:

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

– http://www.hp.com/support/Z2_Tower_G5

– http://www.hp.com/support/Z2_SFF_G5

– http://www.hp.com/support/Z2_Mini_G5

– http://www.hp.com/support/ZCentral_4R

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

Step 3: Install Microsoft Windows Server 2019 operating system from DVD or USB media. Please refer to [Getting Started with Windows Server 2016](#) for information regarding the available installation options.

• 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.



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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 <http://msdn.microsoft.com/en-us/windows/hardware/gg463525> 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 2019 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.

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)

DRIVER	VERSION	SOFTPAQ #	PURPOSE
HP Z2G5 Workstation System BIOS	01.01.07	SP110858	Updates the system BIOS
HP Z Central 4R Workstation System BIOS	01.06	SP110864	Updates the system BIOS
Intel® W480 chipset Driver for Windows 10 64-bit (HP Z2 G5 series workstations) onboard devices within the system	10.1.18383.8213	SP112161	Updates some of the onboard devices within the system
Intel® PCH Driver (HP ZCentral 4R workstation)	10.1.18019.8144	SP110084	Updates some of the onboard devices within the system
Intel® Management Engine Software (HP Z2 G5 series and ZCentral 4R workstations)	2031.15.0.1743	SP110374	Updates the driver for the Intel® Management Engine ("ME")
Intel® Ethernet Drivers (HP Z2 G5 series and ZCentral 4R workstations)	R25.0	SP101849	Updates the onboard network controllers
Intel® Rapid Storage Technology Z2G5 WKS x64	17.9.3.1016	SP110292	Updates the driver for the Intel® storage controllers
Intel® Virtual RAID on CPU (HP ZCentral 4R workstation)	6.3.0.1022	SP104196	Updates the driver for the Intel® storage controllers
Realtek Audio Driver for Z2G5	6.0.8991.1	SP110848	Allows proper functionality of the Realtek audio device
Realtek Audio Driver for Z Central 4R functionality of the Realtek audio device	6.0.9025.1	SP111417	Allows proper functionality of the Realtek audio device
HP Application Enabling Software Driver (HP Z2 G5 series and ZCentral 4R workstations)	ALL.B377E750C2130	SP110546	Enables HP Software Application features
Intel® Dynamic Tuning for Z2G5	8.7.10200.12510	SP110214	Updates the Intel® Dynamic Tuning driver
Intel® Wireless for Bluetooth Technology Driver for Windows 10 (HP Z2 G5 series workstations)	21.110.0.3	***SP107463	Updates the driver for the Bluetooth controller
Intel® Wireless LAN Drivers For Windows 10 (HP Z2 G5 series workstations)	21.110.1.1	***SP107462	Updates the Wireless LAN driver

*** Intel® Bluetooth and Intel® Wireless LAN drivers for the Z2 G5 series workstations 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
<http://www8.hp.com/us/en/campaigns/workstations/overview.html>
- HP support and drivers
<http://welcome.hp.com/country/us/eng/support.html>
- HP driver subscriptions, alerts and notifications
<http://www.hp.com/united-states/subscribe/gateway>
- HP Z2 Tower G5 Workstation Maintenance and Service Guide
<https://support.hp.com/us-en/product/hp-z2-tower-g5-workstation/34407181/manual>
- HP Z2 SFF G5 Workstation Maintenance and Service Guide
<https://support.hp.com/us-en/product/hp-z2-small-form-factor-g5-workstation/34407171/manuals>
- HP Z2 Mini G5 Workstation Maintenance and Service Guide
<https://support.hp.com/us-en/product/hp-z2-mini-g5-workstation/34407176/manuals>
- HP ZCentral 4R Workstation Maintenance and Service Guide
<https://support.hp.com/us-en/product/hp-zcentral-4r-workstation/38215211/manuals>

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