



# Z by HP Data Science Solutions

Get rapid results with complex data on your most challenging AI and machine learning projects with Z by HP desktop and mobile workstations – purpose built for data science and packed with the power and solutions needed to get results faster.



## Customize your data science environment

We've taken the guesswork out of creating the optimal data science environment by testing and preloading popular data science tools on select Z desktops and mobiles. The Z by HP Data Science Stack Manager<sup>1</sup> allows you to easily install or delete programs as your projects or workflows change with a software stack that automatically stays up to date. Spend more time uncovering insights and less time on the chore of managing your data science software.

## Software tools

Get the most popular tools for analyzing data and creating powerful models. Enjoy seamless management of package updates and dependencies so that your environment is always ready-to-use.



RAPIDS XGBoost

## Enhanced cloud experience

Interact seamlessly with your main cloud environment with cloud command line access.



## Microsoft WSL 2 preinstalled

Experience the best of both Windows and Ubuntu with Microsoft Windows Subsystem for Linux 2.<sup>3</sup> WSL 2 is a simple and fast way to run Linux directly in Windows.

## Developer utilities

Easily create and deploy your data science applications while managing your data science tools and models.



## Ubuntu, certified and uninstalled

We work closely with Canonical to extensively test and certify the latest version of Ubuntu OS so it performs at its best.<sup>2</sup>



# Z by HP AI Studio

NEW SOFTWARE TOOLS

Accelerate model development with one platform that connects people, data, tools, and compute.



**Centralize:** All your data, tools, team members, and projects on one platform.



**Collaborate:** Easily access and share data, templates, and experiments with your team.



**Accelerate:** Save time on operational tasks and focus on data models, AI tools, and visualizations.

Key features:



**Connect to data** on-prem or from the cloud and manage datasets access.<sup>4</sup>



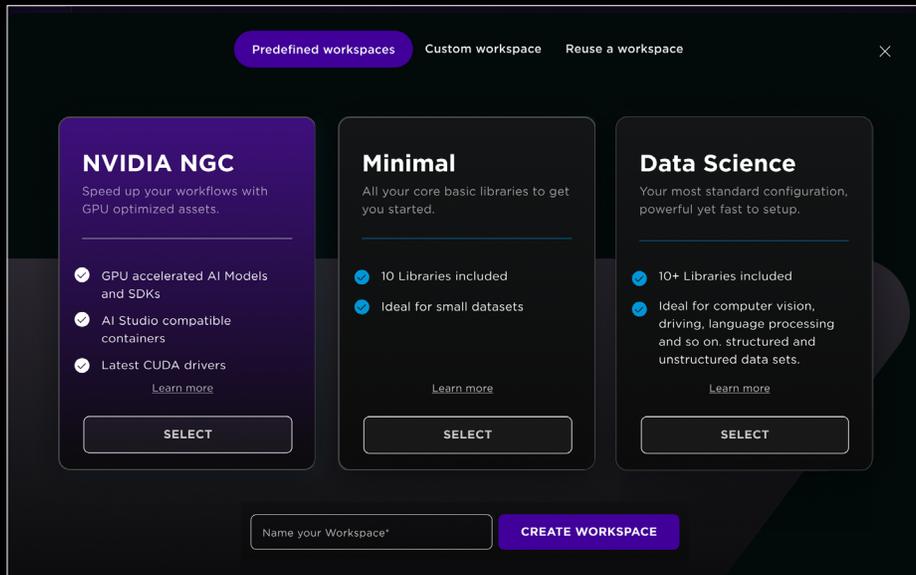
**Monitor available compute** with an analytics dashboard that provides a comprehensive overview of available GPU resources.



**Leverage shared workspaces** for consistency of libraries and packages across teams.

# AI Studio + NVIDIA NGC

Quickly access NVIDIA NGC's catalog of GPU accelerated models and SDKs to jump start AI/ML projects. With seamless integration into AI Studio, data scientists can build and deploy solutions on their preferred system without interrupting workflow.



## Why Z by HP

Innovation is in our DNA. Our engineers' sole job is to anticipate your needs before you even realize them, and bring innovation you can't get anywhere else.

### Pro-grade collaboration



HP Anyware software allows dispersed teams to work together in real time. By remotely harnessing the power of Z, every user gets fast responsiveness and image quality even with big data visualizations.<sup>5</sup>

### Optimized performance for data science



We run our Z devices through actual workflows and then adjust the component mix until we find the optimal configurations that deliver a powerful experience.

### Unthrottled performance



We start with enterprise-class components and work closely with partners like Intel® and NVIDIA® to test and certify them on our Z workstations. We conduct up to 360,000 hours of brutal testing to help ensure you get max performance even on computation and graphics-heavy workflows.

### Secure to the core



Even one security incident can be catastrophic when you're handling valuable IP. Block crippling cyber-attacks with HP Wolf Security for Business.<sup>6</sup>

## New Z by HP Data Science Workstations

Our newest high performance Z workstations will help you push the boundaries of what's possible with data science. Train complex ML/DL models faster and with more accuracy. Get immediate insights from data at the edge with low latency. Test, train, and iterate locally, then move to the cloud as needed, to manage your cloud spend.

For more detailed specifications or information on our other Data Science desktop and mobile workstations, please go to [HP.com/DataScience](https://HP.com/DataScience)

### HP Z8 Fury G5

Deliver fast, accurate insights from your most challenging deep learning projects. The Z8 Fury is optimized to run complex models with unstructured data. Or, set your team up to run simultaneous workflows on up to 4 GPUs.



- Single-socket Intel® Xeon® W CPU (up to 56 cores)<sup>7</sup> and up to 4 NVIDIA® RTX™ A6000 48 GB GPUs<sup>8</sup> provide extreme computational performance, increasing the speed of model training.
- Up to 2 TB DDR5 RAM<sup>9</sup> and up to 120 TB storage<sup>10</sup> optimize performance and help reduce potential bottlenecks.

### HP Z6 G5A

Effortlessly navigate the complexities of data science and AI with a system designed for the detailed workflows of data scientists.



- 96 Core AMD Ryzen™ Threadripper™ PRO CPU<sup>11</sup> and 3 High-End GPUs<sup>18</sup> offer advanced parallel processing for data analysis and model training, along with powerful graphics for machine learning and data visualization.
- 8 Channels<sup>19</sup>/1TB DDR5 Memory and 4 Front-End Accessible NVMe Storage Device<sup>20</sup> can facilitate smooth handling of large datasets and quick data access for efficient computation and storage.

### HP ZBook Fury G11

Simultaneously create complex visualizations and handle advanced algorithms with our most powerful ZBook—now offering a desktop-class CPU in a laptop.



- Unthrottled performance<sup>7</sup> with a desktop class Intel® CPU<sup>2</sup> and up to an NVIDIA RTX™ 5000 Ada Laptop GPU.<sup>3</sup>
- Tackle your biggest projects with up to NVIDIA® RTX™ 5000 Ada Laptop GPU<sup>14</sup> and desktop-level memory and storage (up to 128 GB RAM<sup>14</sup> and 16 TB of storage).<sup>15</sup>

### HP ZBook Studio G11

Packed with professional performance in an incredibly sleek mobile workstation so you can analyze data or build machine learning models—from anywhere.



- Professional performance with up to Intel® Core™ Ultra 9 processor<sup>12</sup> and up to NVIDIA RTX™ 3000 Ada Laptop GPU or GeForce RTX™ 4070 GPU.<sup>3</sup>
- Power through projects with up to 64 GB RAM<sup>16</sup> and 4 TB of storage.<sup>16</sup>

Z6 and Z8 workstations can now include the NVIDIA A800. This powerful GPU includes 3rd Gen Tensor Cores, 3rd Gen NVLink, 1.5 TB/S Memory Bandwidth, 40GB HBM2 Memory, Multi-Instance GPU (MIG) and NVIDIA AI Enterprise.



Learn more about our powerful desktop and mobile workstations  
designed for data science: **HP.com/DataScience**

1. Z by HP Data Science Stack Manager requires Windows 10 version 21H2 (Build 19044) and higher or 64-bit Ubuntu 20.04 and is available on select Z workstations.
2. Select HP Workstations are available with certified Ubuntu. For detailed Linux® OS/hardware support information, see: [http://www.hp.com/support/linux\\_hardware\\_matrix](http://www.hp.com/support/linux_hardware_matrix).
3. WSL 2 requires Windows 10 or higher, Intel Core i5 processor or higher and is available on select Z workstations. You must be running Windows 10 version 21H1 and higher or Windows 11.
4. Cloud remote storage requires an AWS cloud account.
5. Network access required. HP Anyware software and licensing are available through a 1- or 3-year subscription. Renewal is required after the subscription term. HP Anyware subscriptions are based on the number of concurrent PCoIP connections used (pay for the number of host connections, not the software) with a minimum order quantity of 5. For a limited time, an HP Anyware Professional subscription also includes access and support for ZCentral Remote Boost and ZCentral Connect and is available for purchase through an HP reseller or contact sales at [hp.com/Anyware](http://hp.com/Anyware). ZCentral Remote Boost Sender requires Windows 10 and 11, RHEL/CentOS (7 or 8), or UBUNTU 18.04 or 20.04 LTS operating systems. macOS (10.14 or newer) operating system and ThinPro 7.2 are only supported on the receiver side. ZCentral Connect requires Windows (10 or 11) or Windows Server (2016 or 2019) operating system, Microsoft Active Directory and Intel Active Management Technology for select features. For system requirements and to install HP Anyware and Anyware Manager, refer to the Admin Guides at: <https://docs.teradici.com/find/product/hp-anyware>.
6. HP Wolf Security for Business requires Windows 10 or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features and OS requirement.
7. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding, and/or naming are not measurements of higher performance.
8. NVIDIA graphics are an optional, configurable feature.
9. 2TB DDR5 memory is planned to be available by the first half of 2023.
10. Storage memory is an optional, configurable feature. Two front-accessible NVMe bays require a 5.25 bay carrier. Configuration for 120TB requires separate additional purchase. For storage drives, 1GB = one billion bytes; 1TB = one trillion bytes. Actual formatted capacity is less. Up to 35GB is reserved for system recovery software.
11. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.
12. Unthrottled in Best Performance Mode and when plugged in.
13. Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See <http://intel.com/vpro>
14. Optional feature that must be configured at purchase.
15. Up to 128GB memory is an optional, configurable feature.
16. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.
17. 64GB Memory is an optional, configurable feature.
18. Graphics are sold separately or as an optional feature. Three NVIDIA RTX™ 6000 Ada GPUs are compatible with up to a 16C AMD Ryzen™ Threadripper™ PRO 7000 WX-Series CPU and requires 1450W power supply in 220V/230V/240V outlets. AMD Radeon™ Pro W7900 GPU planned to be available 1H 2024.
19. Optional, configurable feature.
20. Optional, configurable features. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software

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