8 WAYS Z

PUSHES DATA SCIENCE LIMITS

Z Workstations are our best choice for universities that want to explore data science technologies. Here's why.

The data science field is fast-growing and complex. Whether you need heavy-duty computing power for data analytics or graphics-intensive visualizations, big data projects require help to get results faster.

ENTER Z.

Z by HP workstations are built for serious high-performance computing requirements. Build, train, and deploy deep learning models at an accelerated pace. Work in real time with colleagues and peers on GPU-heavy workloads. Shield your data from zero-day attacks and insider threats. That's just a fraction of what Z can do.

Click below to learn why universities around the world choose Z Workstations for data science.

4AA8-0546ENW, October 2021

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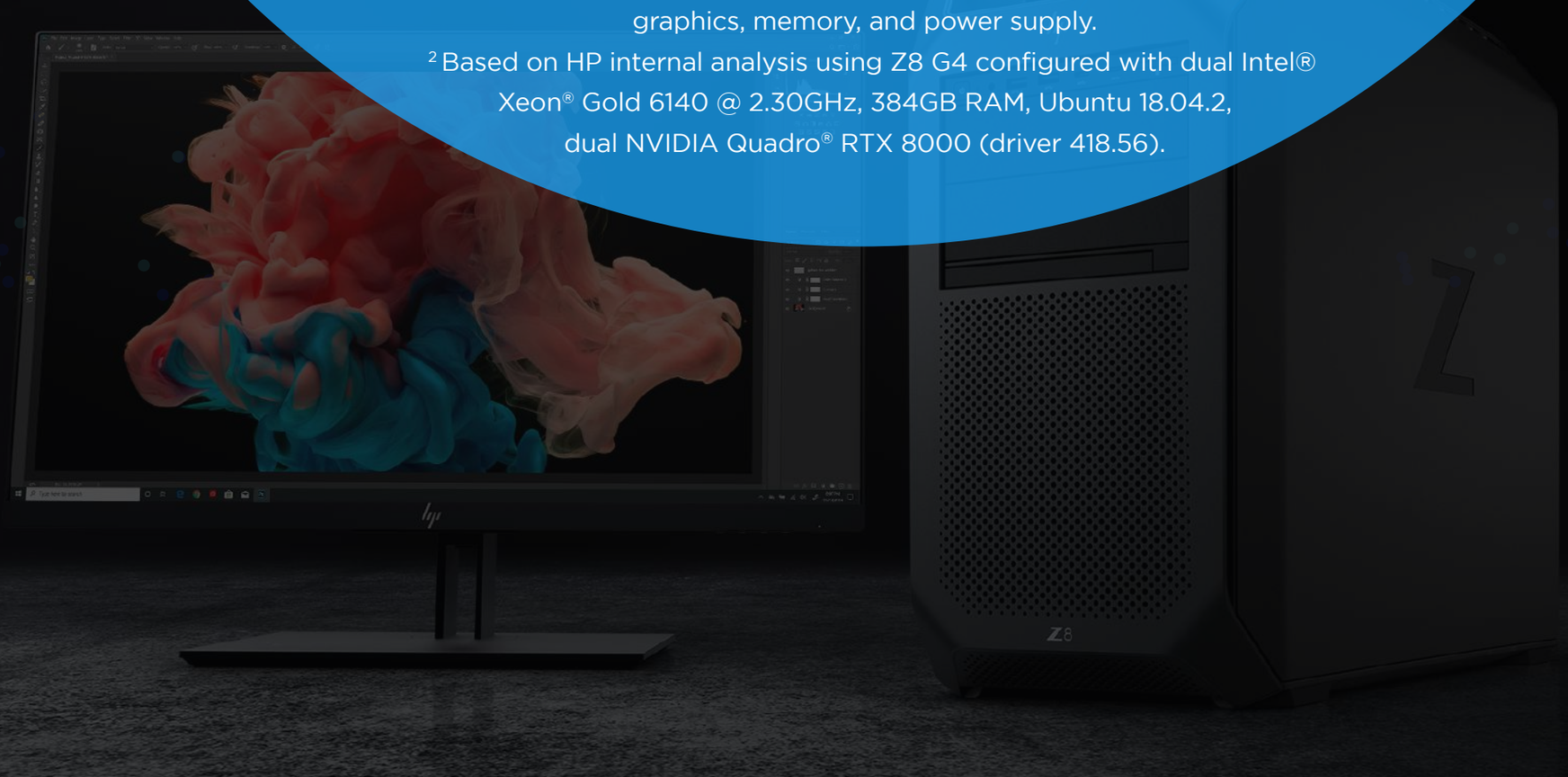
THE WORLD'S MOST POWERFUL WORKSTATION[1]

Interact with billions of dataset rows in milliseconds per click[2] and reach insights faster. Z workstations use NVIDIA® Ampere-series GPUs and Intel® Xeon® processors for maximum speed on big data projects.

[1] Based on HP Z8 G4 Workstations as of April 2019 and power based on processor, graphics, memory, and power supply.
[2] Based on HP internal analysis using Z8 G4 configured with dual Intel® Xeon® Gold 6140 @ 2.30GHz, 384GB RAM, Ubuntu 18.04.2, dual NVIDIA Quadro® RTX 8000 (driver 418.56).



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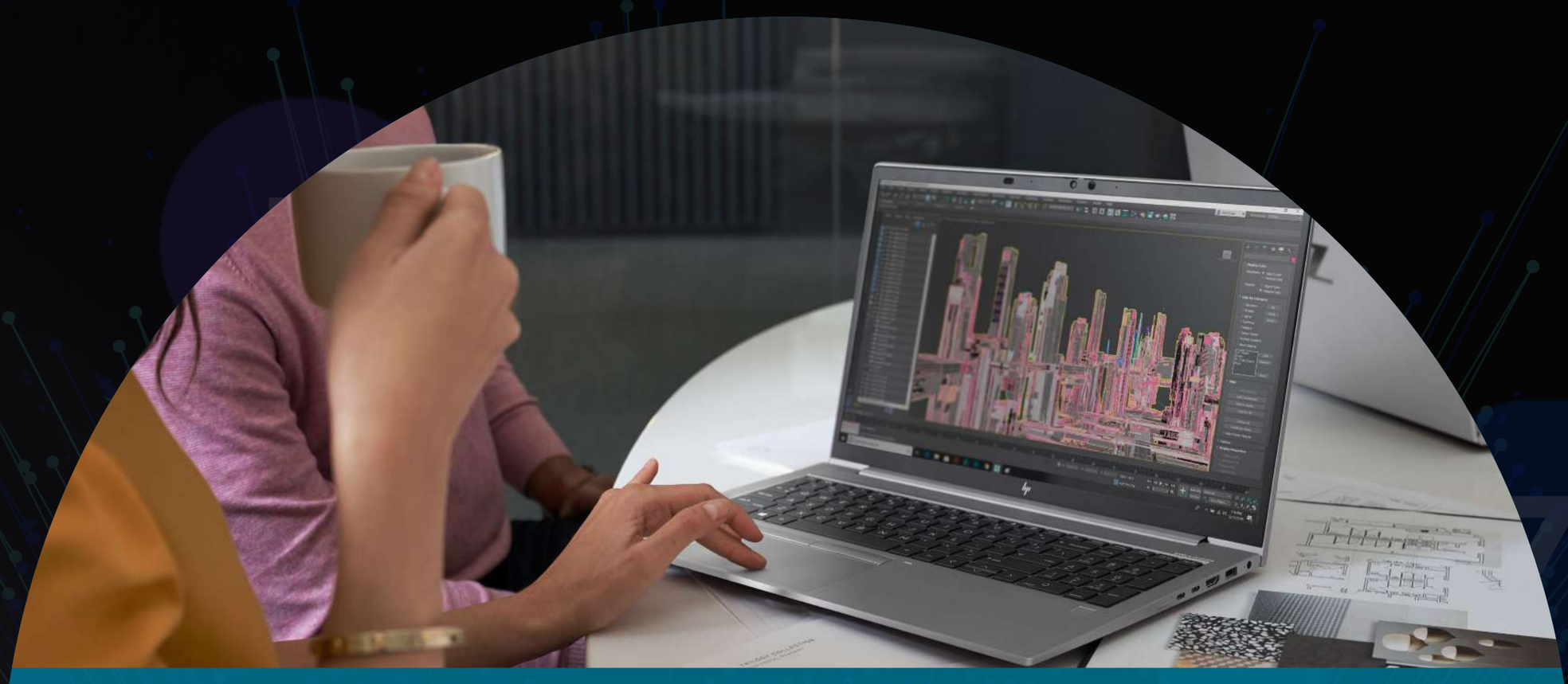

...AND THE MOST SECURE[3]

Protect your intellectual property from internal and external threats with the world's most secure and manageable workstation.[3] Layers of hardware-enforced security below, in, and above the operating system counter cyberattacks at the endpoint.

[3] Based on HP's unique and comprehensive security capabilities at no additional cost among vendors on HP Workstations with Windows and 8th Gen and higher Intel® processors.

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scikit learn

dmlc XGBoost

RAPIDS

TensorFlow

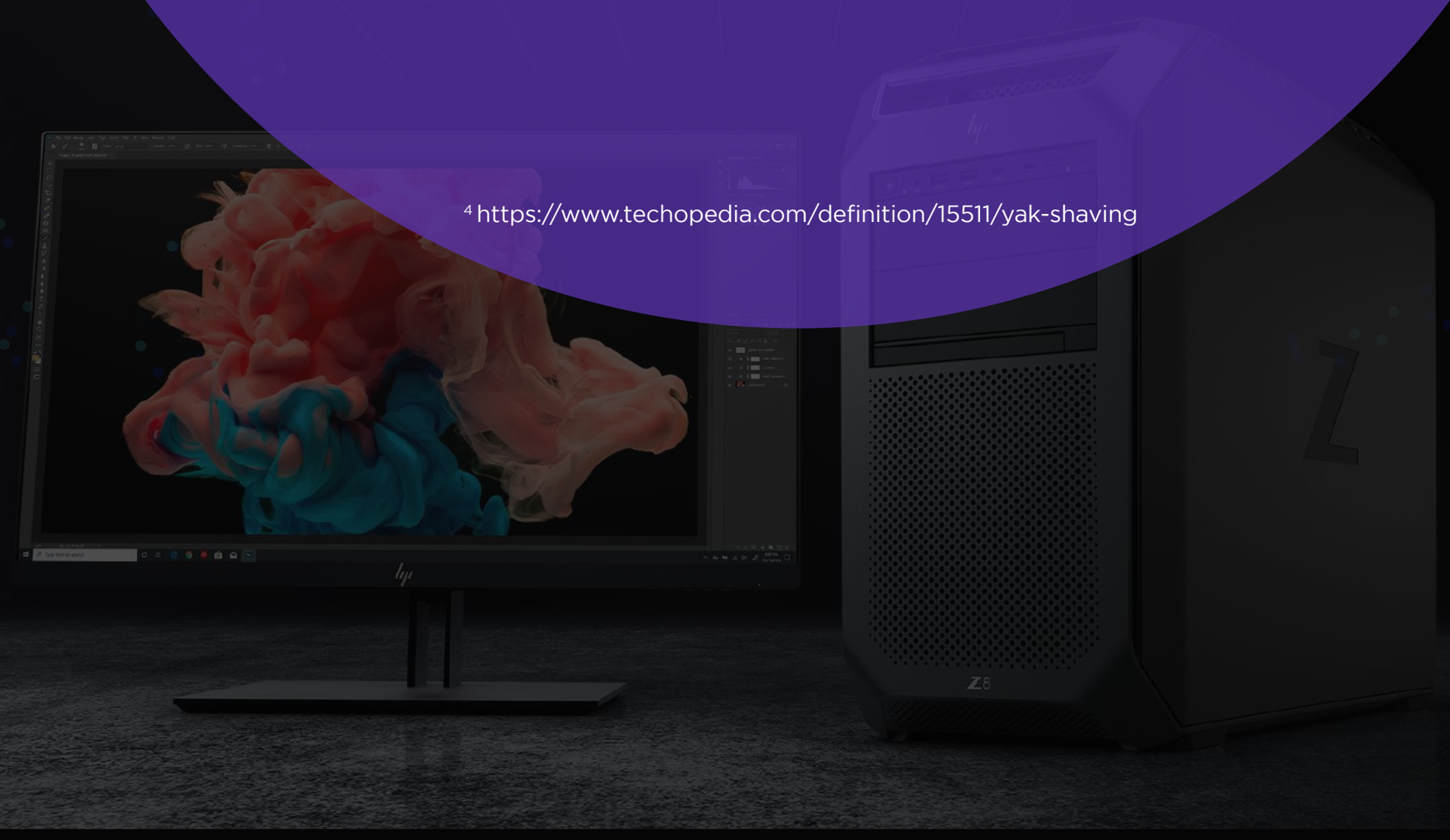
Keras

PyTorch

ANACONDA

GET TO WORK IMMEDIATELY

Preparing a workstation for data science tasks can take days, even weeks. Who has time for the yak shaving?[4] Thanks to a preloaded stack with the most popular data science tools, Z removes the guesswork of finding, installing, and configuring the software you need.



[4] https://www.techopedia.com/definition/15511/yak-shaving

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TEST-DRIVEN FOR RELIABILITY

Z workstations undergo more than 360,000 hours of testing in real-world data science workloads. They are then optimized to deliver consistent performance based on the results, ensuring that they're dependable during actual usage.

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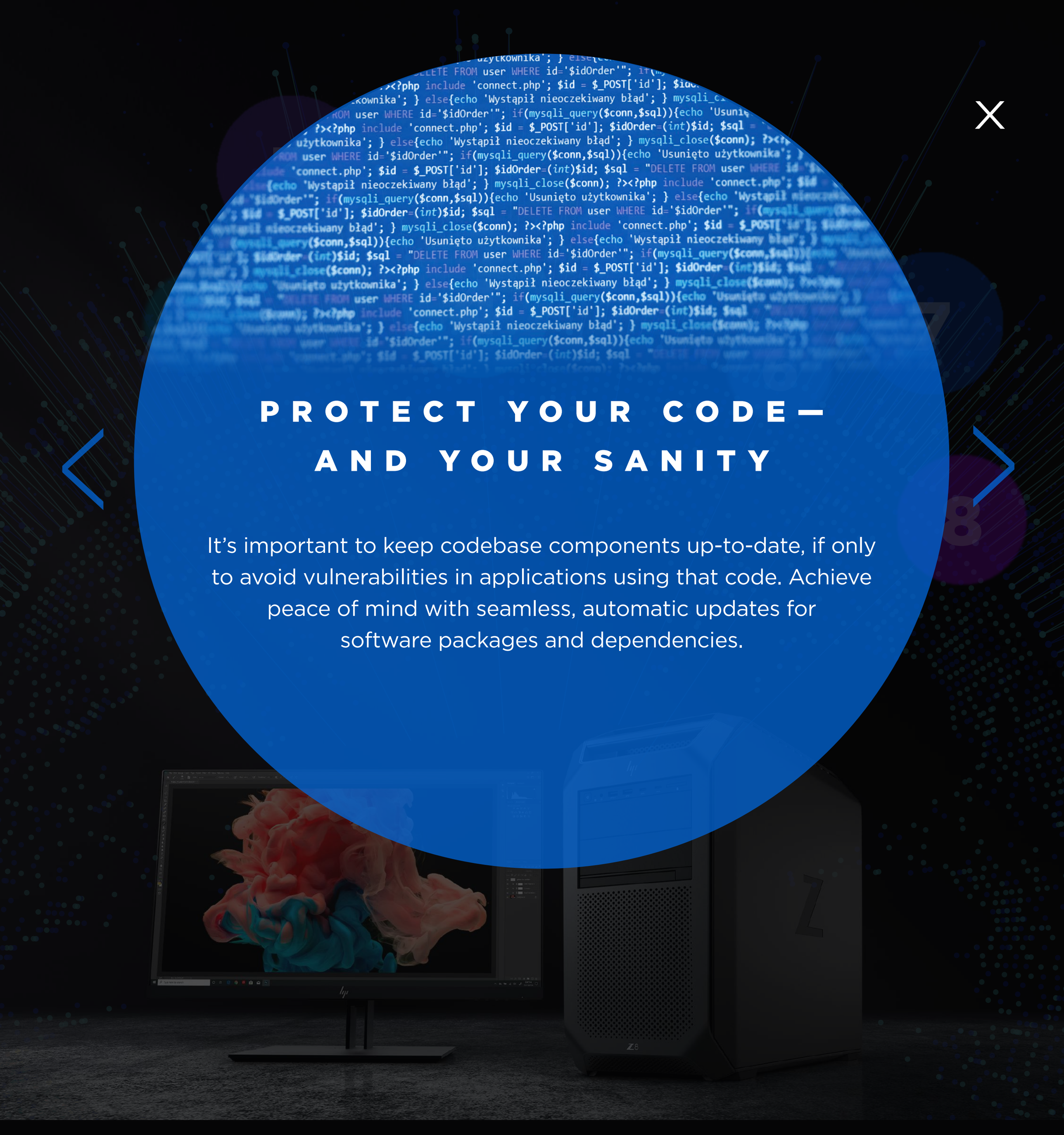

PROTECT YOUR CODE— AND YOUR SANITY

It's important to keep codebase components up-to-date, if only to avoid vulnerabilities in applications using that code. Achieve peace of mind with seamless, automatic updates for software packages and dependencies.

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DO MORE WITH UBUNTU OS

Ensure high performance across data science applications with an operating system made for the tools you use every day. Z workstations feature the latest version of Ubuntu OS, which has been extensively tested and certified by HP and Canonical.

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aws

Microsoft Azure

Google Cloud

THE CLOUD IS AT YOUR COMMAND

Splitting workloads between cloud and local computing systems? It's easy to interact with your main cloud environment via Z's elegant cloud command-line access.

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ENABLE FACULTY AND STUDENTS TO WORK ANYWHERE

Whether you're collaborating with colleagues, teaching a distance learning course, or taking work home, ZCentral Remote Boost makes it easier to work—and learn—from wherever you choose.

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FUEL DISCOVERY AND REACH INSIGHTS FASTER

WITH THE WORLD'S MOST POWERFUL WORKSTATION[1]

As the field of data science grows, you'll need computing power to match. Z workstations are built for the research you're pursuing now and in the years to come. With the flexibility to upgrade components as needed, you'll extend the life span of your workstation and stay ahead of evolving requirements.

LEARN MORE:
HP.COM/DATASCIENCE

[1] Based on HP's unique and comprehensive security capabilities at no additional cost and HP's Manageability Integration Kit's management of every aspect of a PC including hardware, BIOS and software management using Microsoft System Center Configuration Manager among desktop workstation vendors as of June, 2017 on HP Desktop Workstation with 7th Gen Intel® Processors.

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