

# CHARTING A COURSE FOR TODAY'S NEW NORMAL

## Bare metal VDI with HPE Moonshot

### HPE Moonshot—offering an excellent virtual workspace user experience

Delivering exceptional performance with unmatched density and power efficiency, HPE Moonshot is a converged bladed system ideal for delivering secure desktops and virtual apps to the financial services industry and beyond. HPE Moonshot lowers IT costs through its unparalleled combination of high performance, extreme server density, and energy efficiency.

The innovation behind HPE Moonshot is simple—replace traditional, power-hungry, general-purpose processors with more efficient Intel® Xeon® systems-on-chip (SoC) tailored for specific workloads. With integrated fabrics and a dense compute form factor, this solution-focused system delivers the:

- **Best performance per dollar**—Compared to 1P servers, HPE Moonshot reduces acquisition costs by 79%.<sup>2</sup>
- **Best performance per watt**—Compared to 1P servers, HPE Moonshot consumes 88% less power.<sup>2</sup>
- **Most users per rack**—Compared to 1P servers, HPE Moonshot is 8.7X denser, allowing for up to an 877% increase in the number of users per rack.<sup>2</sup>

**“HPE Moonshot increases the performance for the end user and reduces the TCO.”**

– Gian-Marco Venzin, Systems Engineer, Inventx AG

### LIVING AND WORKING IN TODAY'S NEW WORLD

The world faces constant new challenges to manage. Following any large-scale challenge, businesses must enable their employees to establish a “new normal.” For most enterprises and SMBs today, this includes:

- Allowing most if not all employees to work from home/telecommute
- Managing and protecting workers' sensitive data as it moves across the network
- Supporting various work styles
- Conducting virtual meetings for teamwork, collaboration, and customer/prospect interactions

While telecommuting has been commonplace for a small percentage of workers for years, the drastic increase in work-at-home employees has created a critical need to modify business operations and practices, as well as modernize the supporting IT infrastructure.

According to IDC, 80% of U.S. respondents across all firm sizes show interest in using hybrid cloud to increase adoption of cloud-based services for endpoint technologies.<sup>1</sup> This reliance on cloud technology drives the need for simple yet full-featured multicloud networking.

In addition, enterprises must invest in full lifecycle data center network automation to help keep the lights on and the business

running—even in the event of another major crisis. To evolve from a primarily on-premises workforce to one that is predominantly remote and cloud-based requires digital transformation—and HPE Moonshot can help you get there.

### SMALL PACKAGE, BIG VALUE

Delivered in a compact enclosure that is highly dense and readily scalable, [HPE Moonshot](#) was designed from the ground up to be solution-focused and workload optimized. With HPE Moonshot, you can replace traditional general-purpose processors with highly efficient processors tailored for delivering virtual desktops and applications to your remote workforce. HPE Moonshot offers excellent value through:

- **More value per dollar**—Delivers great performance while achieving high user density; allows 32% more users per rack compared to previous generation.
- **Cost savings**—Decreases power consumption per user by 25% compared to previous generation, reducing operational costs, and TCO.
- **Enhanced security and flexibility**—Eliminates the relocation of workstation equipment because the services can be delivered from a data center.
- **Consumption-based pricing**—Flexible IT pricing model that scales easily with your business needs and offers capacity on-demand.

<sup>1</sup> IDC's Worldwide Managed CloudView Survey, 2019.

<sup>2</sup> Based upon HPE's independent testing using industry average pricing, power draw, and rack density.

**Did you know?**

- By 2023, price reductions and product maturation will prompt organizations to move 20% more of their virtual desktop infrastructure (VDI) users onto desktop-as-a-service offerings in the cloud.<sup>3</sup>
- 70% of decision-makers cite active or planned desktop virtualization deployments.<sup>4</sup>

## BARE METAL VDI

Traditional VDI solutions deliver value for end-user desktop environments through increased flexibility, security, and manageability. But handling the performance demands of power users and other workers with graphics-intensive requirements can be challenging in a shared resource, hypervisor-based solution. This is where bare metal VDI comes into play.

Designed with mobility and performance in mind, HPE's bare metal VDI solution with HPE Moonshot combines the value of traditional VDI with the performance experience of bare metal desktops. The HPE VDI solution with HPE Moonshot allows workers to securely access their graphics-intensive applications from anywhere at any time.

Bare metal remote desktops provide users with dedicated resources. This approach enables fast resource allocation and ensures services can run without interruption. Resources are readily available, ensuring stability and performance.

## HPE MOONSHOT IN ACTION

Proven to provide an excellent experience for stock traders and financial services (FSI) organizations, the latest generation of HPE Moonshot offers workload-optimized compute solutions for a variety of demanding workloads including:

- **Virtual desktop infrastructure (VDI)**—Hosting each workers' desktop environment on a dedicated server cartridge within the HPE Moonshot chassis, located in your data center; each HPE Moonshot chassis can support up to 45 server cartridges.
- **Big Data**—Managing the extreme volume of data created by remote workers, as well as handling scale-out databases such as Cassandra and Hadoop (Yarn) and custom software.

- **High-performance computing (HPC)**—

Employing parallel processing techniques to help solve the complex computational problems typically associated with computational fluid dynamics (CFD) and other scientific simulations.

## CONSUMPTION-BASED BILLING ACCELERATES YOUR IT TRANSFORMATION

Rather than pay for services you might use, HPE Moonshot is available through [HPE GreenLake](#) as a consumption-based service. By receiving HPE Moonshot as a service, you benefit from a flexible consumption model that scales right along with your business needs.

With advanced metering and capacity management, you can count on having the compute you need, when you need it—regardless of fluctuations in user consumption—and pay for only what you use. HPE GreenLake delivers on-demand capacity and planning, combining the agility and economics of public cloud with the security and performance of on-premises IT.

Companies across all verticals—from manufacturing to retail to healthcare—leverage HPE GreenLake to gain flexibility, increase control, and lower their TCO. HPE meters your usage, whether gigabytes of storage, compute hours, or virtual machines, and charges you for only what you consume.

Together with HPE Moonshot, HPE GreenLake can help accelerate your digital transformation and chart a safe and successful course for today's new normal.

## LEARN MORE AT

[hpe.com/moonshot](https://hpe.com/moonshot)  
[hpe.com/greenlake](https://hpe.com/greenlake)

<sup>3</sup> IDC, provided by HPE's Analyst Relations Manager; HPE has direct access to IDC resources.

<sup>4</sup> Forrester Business Technographics Global Infrastructure Survey, November 2019.

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