



# Enabling your HPC cloud journey

## Microsoft Azure HPC + AI

An ever-increasing set of business demands, from regulations to new workload requirements to security and collaboration, are putting pressure on the traditional on-premises HPC infrastructure and how best to maximize ROI.

Are you looking for fast computational power and large-scale parallel processing to accurately process large volumes of data? Would you benefit from deep insights into business data to drive smarter simulations and empower intelligent decision-making?

While there are many benefits to moving your HPC workloads to the cloud, we've identified the top reasons why now is the time for you to evaluate your needs. Azure HPC + AI provides a purpose-built HPC infrastructure that delivers scale and speed to achieve faster results while saving you time and money.



### HPC in the cloud

With Azure HPC + AI you can run your HPC workloads on the global Azure Cloud infrastructure with high-performance computing solutions tailored to your organization's specific workflow requirements.

# ~\$71B

estimated global HPC market size by 2030, growing by >6% CAGR<sup>1</sup>

1. High-Performance Computing Market Size, Share, Trends, Emergen Research, March 2022.

# \$6B

estimated end-user spending on public cloud resources to run HPC workloads<sup>2</sup>

2. ISC22 Market Update, Hyperion Research, May 2022.



### Optimized performance with cost control

Azure HPC cloud is built to fit your workloads, including tightly coupled workloads, using the latest CPUs from Intel and AMD, plus GPUs, all backed by low latency, high bandwidth InfiniBand (IB) interconnect capabilities across compute, storage, and networking.



### Accelerate the journey to the cloud at your own pace

Gain the choice and flexibility to determine what workloads to migrate and the right time to migrate them. Azure HPC + AI provides the path forward to move to the cloud on your terms while using the same trusted tools and processes to work with your overall workflow.

# 73%

of organizations use public clouds to supplement on-premises HPC requirements<sup>3</sup>

3. AI Market Perception Pulse Survey, Hyperion Research, July 2022.

# Up to 80%

cost reduction moving from a fixed-size, on-premises actuarial compute grid to an on-demand, variable-size cloud compute solution<sup>4</sup>

4. Azure Total Cost of Ownership (TCO) calculator



### Solve any HPC + AI workload, at any scale

Optimize scale up and scale out performance of HPC applications on Azure HPC with the ability to performance-tune and optimize for specific workload requirements.



### End-to-end workflow agility

Build and manage HPC clusters for your exclusive use with Azure HPC + AI, enabling end-to-end application lifecycle management in the cloud.

# 56%

of organizations are running production-level applications in the cloud<sup>5</sup>

5. AI Market Perception Pulse Survey, Hyperion Research, July 2022.

Enable your scientists, designers, developers, and all other HPC users to achieve more.

[Azure HPC + AI | Unlock your innovation.](#)

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