



# OAKWOOD

Powering Transformation. *Together.*

## HPC ON AZURE

Azure, Microsoft's cloud computing platform, offers a comprehensive suite of services tailored for high-performance computing (HPC) applications. These services empower businesses, researchers, and developers to run compute-intensive workloads on-demand, without the overhead of managing physical infrastructure.

With Azure's HPC services, enterprises can harness the power of high-performance computing in a flexible, scalable, and secure environment. Whether it's for research, simulations, data analysis, or any other compute-intensive task, Azure has the right tools and infrastructure to drive innovation and results.

# ABOUT

**Oakwood Systems Group, Inc.** stands at the forefront of High-Performance Computing (HPC) on Azure, committed to powering transformative computational solutions that drive the next wave of innovation. Over the years, our deep-rooted expertise in Azure's infrastructure has positioned us as the go-to authority for businesses seeking to harness the full spectrum of HPC capabilities available on the Azure platform.

Our seasoned team of professionals brings together a unique blend of technical prowess, industry insights, and a genuine passion for pushing the boundaries of what's possible with Azure HPC. This allows us to craft solutions tailored to the specific needs of each enterprise, ensuring optimized performance, scalability, and cost efficiency.

Beyond mere implementation, we pride ourselves on offering a holistic HPC approach. From meticulous planning and strategy development to seamless deployment, and from rigorous optimization to continuous post-implementation support, our end-to-end services ensure that our clients' HPC endeavors are always aligned with industry best practices and poised for success.

# HPC ON AZURE: 8-WEEK IMPLEMENTATION

OAKWOOD HPC ENGAGEMENT

## DELIVERABLES

- Architecture diagrams and solution design documents.
- Detailed documentation on the system setup, configurations, and best practices.
- A fully functional Azure HPC environment tailored to the client's needs.
- Training materials and session recordings (if conducted virtually).
- Post-implementation support plan.



[www.oakwoodsys.com](http://www.oakwoodsys.com)

[sales@oakwoodsy.com](mailto:sales@oakwoodsy.com)

(314) 824-3000

**Oakwood's HPC on Azure 8-Week Implementation** is a focused engagement designed to deliver rapid results, ensuring that businesses can quickly leverage the immense power of Azure's high-performance computing for their specific needs. With the deep expertise of Oakwood's HPC Team at the helm, organizations can navigate the intricacies of Azure HPC with precision, ensuring a smooth transition and optimized setup.

By streamlining the implementation process, organizations can begin to realize the benefits of Azure HPC – from faster data processing to complex simulations – in a fraction of the time it might typically take. This swift turnaround is invaluable in today's fast-paced market landscape, where agility and the ability to quickly adapt are paramount.

### WHAT TO EXPECT:

- **Kick-Off & Assessment:** Here we'll aim to understand and finalize goals of the initiative and evaluate client's current infrastructure, applications, data sources, and network. Stakeholder meetings will be determined.
- **Solution Design:** Architecture design, networking and storage planning, and resource allocation will take place as we draft the HPC solution.
- **Infrastructure Setup:** We'll configure various HPC components (VMs, CycleCloud, etc.) and configure network and storage.
- **Data Migration & Application Configuration:** Migration of datasets to Azure, install and configure client's applications and conduct performance tuning.
- **Pilot Testing:** We'll assist the client in conducting initial runs of a workload to test while monitoring the results to gather feedback.
- **Optimization & Scaling:** Make any necessary adjustments and implement auto-scaling (if needed).
- **Training & Documentation:** Conduct training sessions to acquaint client to new HPC setup.



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[sales@oakwoodsys.com](mailto:sales@oakwoodsys.com)

## **St. Louis - Headquarters**

1001 Craig Rd. Suite 305  
St. Louis, MO 63146  
(314) 824-3000

## **Kansas City Office**

10000 Marshall Dr. #27  
Lenexa, KS 66215  
(913) 232-4057