

BlackHawkData

Modern Datacenter & Cloud

From Rack to Cloud — Infrastructure Without Limits

BlackHawk Data

blackhawk11.com



EXECUTIVE SUMMARY

The datacenter is being reinvented by AI, hybrid cloud, and edge computing. BlackHawk Data designs and operates datacenter environments that are agile, resilient, and built for what comes next.

From compute and storage to hybrid cloud and disaster recovery, we deliver modern infrastructure designed for AI-ready workloads and operational agility. The AI datacenter market alone is growing at 31.6% CAGR to \$934B by 2030.

DATACENTER SERVICES OVERVIEW

Compute, storage, hybrid cloud, and disaster recovery — designed for AI-ready workloads and operational agility. Our comprehensive datacenter services ensure your infrastructure meets current demands while preparing for future growth.

Compute

Server refresh, hyperconverged infrastructure, and AI-ready compute architectures that scale with your workloads.

Services include:

- Server refresh and modernization
- HCI — VMware vSAN, Nutanix
- Virtualization platform design and migration
- AI-ready compute architecture

Storage

Enterprise storage design from SAN to object storage, with performance optimization and tiered architectures.

Services include:

- SAN, NAS, and object storage design
- Storage refresh and data migration
- Performance optimization
- Tiered storage architecture

Hybrid Cloud

Multi-cloud connectivity, workload migration, and cloud-native protection for Azure, AWS, and beyond.

Services include:

- Azure and AWS connectivity design



- Cloud on-ramp (ExpressRoute, Direct Connect)
- Multi-cloud networking and security
- Workload migration and cloud strategy
- Cloudflare for cloud-native protection

DATACENTER LIFECYCLE MANAGEMENT

Complete lifecycle ownership from strategy through continuous optimization. We manage every phase of your datacenter infrastructure journey.

Plan Phase

Strategic planning for datacenter success:

- DC & hybrid cloud strategy — Comprehensive infrastructure roadmap aligned with business objectives
- Workload analysis — Understanding application requirements and resource needs
- Capacity & resiliency planning — Ensuring infrastructure can meet demand with appropriate redundancy
- Technology roadmap — Planning for technology refresh and modernization

Build Phase

Expert deployment and implementation:

- Compute/storage deploy — Server and storage infrastructure installation and configuration
- Virtualization platforms — VMware, Hyper-V, and cloud platform deployment
- Cloud connectivity — Secure connections to public cloud services
- Secure DC architecture — Security controls and segmentation implementation

Operate Phase

24x7 operations and continuous optimization:

- Infrastructure monitoring — Real-time visibility into datacenter health and performance
- Incident response — Rapid response to infrastructure issues and outages
- Backup & recovery ops — Data protection and disaster recovery operations
- Performance tuning — Continuous optimization for workload performance

Manage Phase

Ongoing governance and optimization:

- Patch & HW lifecycle — Systematic maintenance and hardware refresh planning



- Capacity forecasting — Predictive analysis for future infrastructure needs
- Vendor & license management — Optimization of vendor relationships and software licensing
- Modernization planning — Roadmap for technology evolution and upgrades

AI-READY DATACENTER

AI workloads demand massive compute, high-bandwidth networking, and intelligent orchestration. BlackHawk Data designs datacenter environments that are purpose-built for the AI era — from GPU-accelerated compute to high-performance storage fabrics.

Key considerations for AI-ready infrastructure:

- GPU-accelerated compute architectures for machine learning workloads
- High-performance storage fabrics for large-scale data processing
- Low-latency networking for distributed AI training
- Scalable infrastructure that grows with AI initiative maturity
- Integration with cloud AI services and platforms

KEY STATISTICS & MARKET TRENDS

The datacenter market is experiencing unprecedented growth and transformation:

Metric	Value	Significance
Datacenter Market	\$652B by 2030	Massive growth in infrastructure investment
AI Datacenter CAGR	31.6%	Fastest-growing segment of datacenter market
AI Datacenter Market	\$934B by 2030	AI driving major infrastructure transformation
DC Solutions Market	\$1.1T	Total addressable market for datacenter solutions
Hybrid Cloud Adoption	70%	Majority of enterprises adopting hybrid cloud

Table 1: Datacenter Market Trends

WHY BLACKHAWK DATA

BlackHawk Data brings together deep technical expertise, proven methodologies, and strategic partnerships to deliver datacenter solutions that drive business outcomes.

Our Differentiators:

- Complete lifecycle ownership — From strategy to operations, we manage every phase
- AI-ready expertise — Infrastructure designed for emerging AI workloads
- Hybrid cloud mastery — Seamless integration of on-premises and cloud resources
- 24x7 operations — Continuous monitoring and support for critical infrastructure



- Vendor independence — Best-of-breed solutions tailored to your requirements

Strategic Partnerships:

- Cloudflare Elite Partner — Edge security and performance for cloud workloads
- Fortinet Expert Partner — Integrated security for datacenter environments
- Cisco Partner — Enterprise networking and compute solutions

Ready to transform your datacenter? Contact BlackHawk Data to schedule a cloud consultation or discuss your infrastructure requirements.

blackhawk11.com | (877) 383-1845 | info@blackhawk11.com