



SOLUTION BRIEF

AI-ready data centers

Accelerated security, efficiency, and reliability.

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Executive summary

As AI adoption accelerates across enterprises, legacy data center infrastructure has become a critical bottleneck limiting innovation, increasing operational risk, and inflating costs. Gruve delivers AI-ready data center solutions that transform infrastructure into a strategic competitive advantage, enabling faster time-to-market for AI initiatives while significantly reducing total cost of ownership through improved efficiency and

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Business problem

Organizations investing in AI face a fundamental infrastructure gap. Traditional data centers weren't architected for the demands of modern AI workloads, creating operational friction that directly impacts your bottom line and competitive position.

Key pain points

- **Performance degradation and unpredictable costs:** Network latency and throughput constraints cause inference delays that degrade user experience in real-time applications. Multi-tenant environments create resource contention, leading to unpredictable performance that makes capacity planning and SLA commitments nearly impossible. Organizations face ballooning infrastructure costs without corresponding business value.
- **Time-to-market delays:** Without optimized storage architectures and model management capabilities, data science teams spend excessive time on infrastructure rather than innovation. Model deployment cycles stretch from hours to days, while A/B testing and version management become operational nightmares directly impacting your ability to compete in AI-driven markets.

Key pain points

- **Unreliable service delivery:** Inconsistent accelerator availability and lack of AI-optimized load balancing make it difficult to guarantee the 99.99% uptime that customer-facing AI applications demand. Service disruptions don't just impact user satisfaction—they erode trust and create measurable revenue loss.
- **Compliance and security exposure:** AI inference workloads processing sensitive customer data require sophisticated isolation and encryption. Legacy multi-tenant environments lack the network segmentation and audit capabilities needed to meet GDPR, HIPAA, and industry-specific regulatory requirements, exposing your organization to significant legal and reputational risk.

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Why now

The window for establishing AI infrastructure leadership is closing rapidly. Organizations that modernize now will:

- Capture market share as AI becomes table stakes across industries.
- Avoid technical debt that will compound exponentially as workloads scale.
- Meet regulatory requirements before enforcement intensifies.
- Reduce operational costs before legacy infrastructure becomes unsustainable.
- Attract and retain top AI talent who demand modern tooling and infrastructure.

Delaying infrastructure modernization means falling behind competitors who are already operationalizing AI at scale.

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Solution overview

Gruve delivers end-to-end AI-ready data center transformation through five integrated pillars, leveraging best-of-breed technologies from leading providers including Premier Networking, Security, Compute and Storage OEMs:

1. AI-optimized networking

High-performance EVPN-VXLAN fabrics with SDN orchestration eliminate latency bottlenecks and enable predictable, low-latency communication for GPU-intensive workloads.

2. Purpose-built compute

GPU-accelerated platforms provide the processing power and consistency required for training, inference, and model optimization at scale.

3. High-performance S\storage

Low-latency, high-throughput storage architectures with hybrid-cloud integration ensure fast, reliable access to training datasets and model repositories without infrastructure constraints.

4. Zero-trust security

AI-specific threat detection, model protection frameworks, and comprehensive data encryption safeguard intellectual property, training data, and inference pipelines while ensuring regulatory compliance.

5. Intelligent automation & governance

Policy-driven automation and infrastructure-as-code practices reduce operational overhead by up to 90% while ensuring consistency, compliance, and rapid scalability.

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Benefits of Gruve's solutions

Organizations partnering with Gruve typically achieve:

- Significant cost reduction through optimized resource utilization and automation
- 90% faster infrastructure changes enabling rapid AI experimentation
- 99.99% uptime guarantee for business-critical AI applications
- Full regulatory compliance with automated audit trails and monitoring
- Substantially faster time-to-market for new AI capabilities

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Service tiers aligned to your business maturity

Essential Tier

- Best for: Organizations launching initial AI initiatives
- Scope: Foundation assessment, core network and compute setup, compliance baseline
- Investment model: Fixed project-based pricing

Professional Tier

- Best for: Organizations scaling AI across multiple business units
- Scope: Comprehensive infrastructure transformation, advanced storage solutions, detailed compliance framework
- Investment model: Project-based with optional managed services

Enterprise Tier

- Best for: Organizations pursuing AI-first strategies
- Scope: Full-scale transformation, continuous optimization, dedicated support, multi-site deployment
- Investment model: Custom-scoped with outcome-based pricing options

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Why Gruve

Holistic infrastructure expertise: Unlike pure-play AI companies, Gruve architects complete solutions, from network fabric to application layer, ensuring every component is optimized for AI workloads.

Outcome-based design: We engineer solutions around your specific business objectives and KPIs, not generic reference architectures, ensuring maximum ROI on your infrastructure investment.

Proven at scale: Our team has deployed AI infrastructure for Fortune 500 healthcare, financial services, and technology organizations operating under the most stringent performance and compliance requirements.

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Case study

Proven results: Healthcare system transformation

Customer profile: Large U.S. healthcare system with strict regulatory compliance requirements and expanding AI diagnostic capabilities

Business challenge:

- Legacy infrastructure created extended disaster recovery windows, risking patient care continuity
- Manual network changes blocked rapid AI model deployment
- Poor visibility caused unexpected outages during critical care hours
- Compliance gaps created audit risk and potential penalties

Business results:

- 40% network performance improvement enabling real-time AI diagnostic tools
- 90% reduction in change implementation time accelerating AI model deployment
- Improved disaster recovery capabilities protecting patient care continuity
- Full regulatory compliance achieved with automated audit trails

Outcome-based solution: Gruve deployed EVPN/VXLAN SDN architecture across multiple data centers with automated orchestration, micro-segmentation, and real-time monitoring.

Contact Gruve to schedule a consultation and learn how our Data Center & Operations solution can transform your data center for AI-readiness.

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