

Immediate Time-To-Market Delivering AI Cloud Services

Learn more about secure, multi-tenant AI cloud services

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Get automated, secure, multi-tenant AI services

The challenge

85%

faster time to
deploy services

Quickly optimize AI return on investment

The race is on for neoclouds, traditional service providers (SPs), and other AI cloud providers to capture the growing enterprise demand for AI cloud services. Along with time-to-market pressures, optimizing expensive GPUs is critical to maximizing ROI. Virtualizing GPUs as cloud services eliminates GPU idle time by sharing compute cycles across many revenue-generating enterprise customers. But securing multi-tenant GPU cloud infrastructures and simplifying complex AI deployments remains a challenge.

The capabilities you need

90% lower

networking-related
OpEx

AI-Native operations to quickly deploy AI cloud services

The fastest way to deploy highly optimized, cost-effective, and secure multi-tenant cloud-based AI services

- **Juniper's Ops4AI Lab validated solution performance**
Multivendor AI blueprints and Juniper Validated Designs (JVDs) ensure confidence and expedite deployment times
- **Zero Trust AI data center security**
Private-to-public AI service security and multi-tenant isolation to protect customer models and data
- **GPU-to-cloud AI visibility and AIOps**
Fabric-to-GPU connection and flow analytics for assured service performance with AIOps-enabled problem avoidance and resolution
- **Automated AI service optimization**
Lossless, self-driving AI fabric performance with traffic management autotuning and OpenShift integration reduces complexity and saves time with Day 1 delivery of advanced AI cloud services

**The answer: Juniper's
AI Data Center for
Service Providers**

Juniper simplifies AI cloud services delivery

SPs in particular are leveraging their highly distributed and vast physical real estate to deliver personalized and responsive AI services with regulatory and data sovereignty conformance. Using predefined 400G and 800G AI blueprints, AIOps, Zero Trust security (featuring Juniper's SRX4700 next-generation firewall), and Juniper Apstra automation with OpenShift integration, Juniper simplifies the deployment and operation of powerful, flexible, and automated AI cloud services data centers.

How it works

Simplify and automate AI cloud services


Deliver revenue-generating enterprise AI cloud services faster using fewer resources. Intent-based automation simplifies design and deployment to secure multivendor data centers for AI cloud service providers.

 **GPU-as-a-Service (GPUaaS)**

Deliver high-performing, scalable, and secure networks for cloud-based AI services like training, inference, RAG, and storage.

 **Secure AI multi-tenancy**

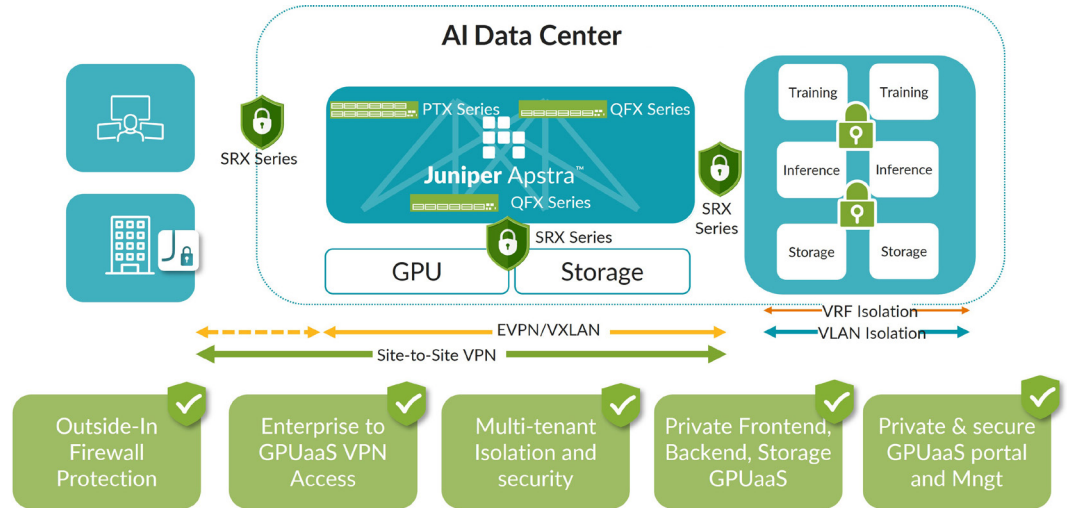
Isolate and protect multi-tenant AI workloads, eliminating GPU idle time and maximizing AI ROI.

 **Private-to-cloud secure AI services**

VPN, VXLAN, and VRF stitching secure site-to-site and consumer-to-service access for private AI service management, secure inferencing, and accessing private databases (e.g., RAG).

 **Agile GPU cloud services**

Dynamically shift compute resources across customer AI pods and networks to optimize AI service performance and eliminate GPU idle times.



Core capabilities

No-risk AI model testing and performance	Test open-source or custom AI models and data in Juniper's multivendor Ops4AI Lab to optimize AI infrastructure and services before investing.
Simplify AI cloud deployments	Apstra's intent-based automation and Mist AI, vendor agnostic templates and blueprints, and Juniper JVDs simplify multivendor AI data center design and deployment.
Automate AI DC Performance	Autotuning automates explicit congestion notification (ECN) and priority flow control (PFC), saving weeks of time optimizing AI service performance.
Secure multi-tenant AI cloud workloads	Protect the infrastructure, models, and data from internal and external threats while isolating multi-tenant AI services with optimal GPU efficiency for lower costs and increased revenue.



SambaNova provides AI cloud services offering specialized, high-performance AI and machine learning capabilities, focusing on delivering advanced computing platforms to deploy AI training and inference models.



Soluna builds modular AI data centers co-located at renewable energy production sites. Join Dipul Patel, CTO of Soluna, as he talks energy, AI training, and why Juniper hardware is the perfect match for Soluna's innovative designs.

Our advantage

Enabling on-demand AI services

Juniper's data center for AI cloud service provider solution is the most powerful and secure way for traditional service providers and neoclouds to quickly deploy highly optimized, cost-effective, and multi-tenant cloud-based AI services.

Why Juniper

Trusted service provider and cloud provider partner

Juniper has a long history of developing innovative networking and cloud technologies for SPs and cloud providers. Juniper's advanced AI data center, automation, AIOps, and security solutions are the quickest and easiest way to deliver high-performing, scalable, and secure networks for monetizing cloud-based AI services.

More information

Power up your AI data centers

To learn more about Juniper's AI cloud provider solutions, visit our website at <https://www.juniper.net/us/en/solutions/data-center/ai-infrastructure.html>

For technical data sheets, guides and documentation, visit <https://www.juniper.net/documentation/product/us/en/apstra/>

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