

Revolutionizing Service Provider Multitenancy

Secure, Scalable, and High-Performance Multitenancy

Challenges

- Ensuring strong isolation between tenants.
- Maintaining consistent performance across workloads.
- Reducing operational costs with efficient resource use.
- Scaling to support more tenants without performance loss.

Why WEKA?

- **Ensures strong security** and prevents performance interference with physical and logical tenant isolation.
- **Eliminates the noisy neighbor effect** with dedicated resources for each tenant.
- **Scales efficiently** to support growing workloads without sacrificing performance.
- **Automates deployments and streamlines operations** with Kubernetes-driven resource management.
- **Delivers high performance** for the most demanding AI and GPU workloads.
- **Protects data privacy** and meets compliance requirements.

Cloud service providers (CSPs) need to manage multiple tenants without sacrificing security or performance. As workloads grow and infrastructure demands increase, traditional multitenancy solutions often can't keep up. WEKA's Composable Clusters address these problems with both physical and logical isolation for each tenant. Every tenant has dedicated drives, memory, and CPU cores, ensuring secure, independent operations to eliminate the "noisy neighbor" effect.

The WEKA® Data Platform allows CSPs to scale confidently, maintaining consistent performance as more tenants are added. Unlike traditional solutions, which often require overprovisioning resources—driving up costs without improving efficient resource utilization—WEKA's platform optimizes resource allocation to ensure peak performance without waste. While many legacy systems struggle with dynamic scalability and adapting to fluctuating workloads, WEKA's architecture is built to scale seamlessly in real-time.

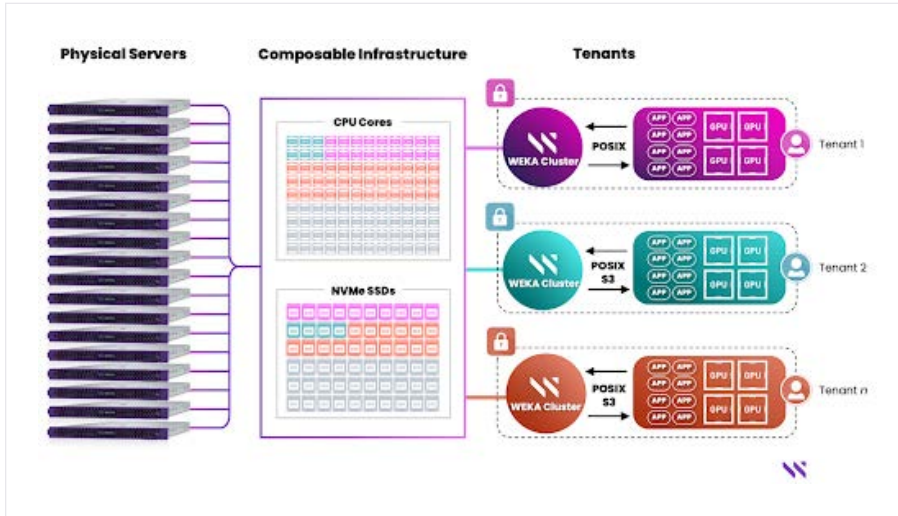
Additionally, WEKA eliminates the security and compliance risks associated with weak data isolation in traditional environments, providing strong physical and logical tenant separation. In today's regulatory environment, data privacy and compliance are critical. With WEKA, each tenant benefits from end-to-end encryption and unique authentication credentials, ensuring data stays private and secure. Compliance with regulations is simplified, allowing CSPs to maintain data security and isolation as they scale their infrastructure.

Support up to 110 tenants per server for efficient resource utilization.

Scale to 150,000 total tenants without compromising performance or security.

Create clusters in minutes for fast deployments and reduced time to market.

Zero-tuning performance optimization ensures consistent, high performance across workloads.



Multitenancy is about more than isolation

Cloud providers must optimize their operations while delivering consistent, high-performance services to every tenant. The WEKA Data Platform uses Kubernetes-driven automation to quickly handle resource allocation, ensuring each tenant gets exactly what they need when they need it. This reduces manual overhead and makes sure that resources are used efficiently.

Our zero-tuning experience means optimal, out-of-the-box performance for CSPs, minimizing the need for manual adjustments, simplifying maintenance, and ensuring consistent high performance.

Future-ready scalability

The WEKA Data Platform scales seamlessly as workloads and tenants increase, keeping performance stable without requiring complex reconfigurations. Whether you're managing hundreds of tenants or scaling to thousands, the platform is ready to adapt.

The WEKA Data Platform creates and scales clusters quickly, so whether you're dealing with fluctuating workloads or adding new tenants, you can deploy clusters in minutes, significantly reducing time to market for new services. This flexibility helps you adapt quickly to changing needs without performance slowdowns or infrastructure bottlenecks.

Maintain consistent performance with physical isolation that prevents the "noisy neighbor" effect.

Eliminate overprovisioning and streamline operations with dynamic resource allocation.

Seamlessly scale in real-time to handle fluctuating workloads.

Reduce operational costs by maximizing resource efficiency across all tenants.

Grow your business confidently with scalable infrastructure that maintains peak performance.

Adapt on the fly with real-time infrastructure adjustments to meet increasing workloads.

Ensure compliance with secure, isolated tenant environments.



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