



High-Speed File Storage

Peak GPU Performance — Accelerate AI Without Bottlenecks

Store and serve massive datasets with JioCloud High-Speed File Storage and built for seamless scale, simple management, and rock-solid reliability.

The Challenge

- Feeding massive datasets to GPUs at line rate often leads to I/O bottlenecks.
- AI training data and intermediate results are growing rapidly, making efficient management difficult.
- Iterative training and real-time inference demand ultra – low-latency access that's hard to maintain.
- Running concurrent experiments and workloads makes it challenging to deliver predictable performance.



The JioCloud Solution

AI workloads slow down when storage can't keep pace. JioCloud High-Speed File Storage solves this by combining an all-flash architecture with the simplicity of NFS. The result is ultra-fast read and write performance, consistently low latency, and GPUs operating at full speed. The reason is its seamless integration with the JioCloud AI platform, ensuring clusters remain highly productive. Data flows smoothly from preprocessing to training to inference – while enterprise-grade safeguards protect it at every step.

Key Features

- **NFS protocol made simple**
Works seamlessly with leading AI frameworks and pipelines. No tweaks, no lock-ins – just standard file access.
- **High-speed data delivery for parallel training**
Sustained multi-GB/s performance keeps accelerators busy and eliminates data starvation.
- **Low-latency access**
Optimised data paths reduce wait times for data-intensive jobs.
- **Elastic scalability**
Expand capacity from terabytes to petabytes without disruption.
- **Built-in data protection and security**
Snapshots, encryption, redundancy, and role-based access controls safeguard datasets.
- **Multi-protocol access**
Use both high-speed file and S3 object protocols on the same dataset without duplication.

What You Gain

- **Maximise GPU utilization**
Keep your accelerators busy instead of waiting on data.
- **Accelerate time-to-insights**
Reduce training and inference times by feeding data at line rate.
- **Simplify AI data management**
Centralise datasets, checkpoints, and results in one high-performance
- **Future-ready scalability**
Expand capacity and performance seamlessly for growing AI workloads.
- **Enterprise-grade reliability**
Count on built-in safeguards — from snapshots to redundancy — to keep your datasets safe and always available.



Use Cases in Action

AI/ML research labs

Run faster experiments with immediate access to training data and saved checkpoints

Autonomous systems

Stream large datasets smoothly for real-time simulation and ongoing model refinement

Media and entertainment

Speed up creative work, from rendering to tagging, with storage that keeps up with AI pipelines

Healthcare and life sciences

Provide instant access to imaging datasets to support accurate, AI-driven diagnostics

Who It's For

HPC and AI infrastructure teams - Keep GPU clusters productive with reliable, high-speed storage

AI engineers and data scientists - Train and test models faster with large datasets on demand

Cloud architects - Build pipelines that scale smoothly across projects and departments

Research institutions - Enable data-heavy experiments that require consistent performance

Why JioCloud

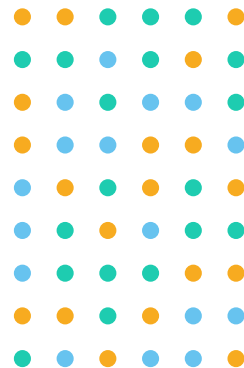
Purpose-built for AI - Designed from the ground up to deliver data at GPU speed

Native to JioCloud - Provision instantly and integrate with the JioCloud AI environment

Proven flash performance - Consistent throughput under heavy, concurrent workloads

Elastic by design - Scale capacity and performance as datasets grow

Secure by default - Encryption, access controls, and redundancy protect critical data end to end



Ready to Eliminate Data Bottlenecks in AI?

Reach us at jpl.cloudsales@ril.com or visit [\(website\)](#) to get started with JioCloud High-Speed File Storage.

