What is mCloud

Vincent (Vinnie) Curle - 2025-05-09 - mCloud

Overview

mCloud is Micron21's next generation cloud platform, offering Public, Private, and Hybrid Cloud solutions with scalable compute, storage, and networking.

Our platform is built for businesses that need **performance**, **reliability**, as well as **cost effective** infrastructure.

We achieve that by:

- Utilising high-speed Intel **Xeon Gold** compute, **NVMe SSD** storage, and **100Gbps** networking
- Hosting in our Australian **Tier IV** certified data centre with built-in redundancy - as well as synchronising data between three geographically separate data centres
- Using **OpenStack** and **Ceph** to allow greater flexibility, control, and cost effective infrastructure
- Providing **24/7** support from **Australian-based** cloud specialists, ensuring seamless deployments and efficient troubleshooting

Key features that power mCloud:

- **Cost Effective Resources & Infrastructure** - Reduce your cloud costs without sacrificing performance or reliability. mCloud delivers enterprise grade cloud infrastructure at a fraction of the cost of AWS, Google Cloud, or Azure.
- **Scalable, high performance cloud compute** - Run high-performance workloads on dedicated - Intel Xeon Gold powered - compute. Dynamically scale resources up or down to match changing workloads and demands.
- **Ultra-fast, always available storage** - Experience ultra fast, always available storage with our NVMe-powered mSAN platform. Utilising Ceph and engineered for mission critical applications, real-time replication across locations, and seamless scalability.
- **Fault-tolerant Tier IV data centre** - Micron21 operates Australia's first Tier IV-certified data centre, offering 100% uptime, redundant power, and high availability architecture.
- **24/7 Australian-based expert support -** Our cloud specialists provide 24/7 Australian-based support, ensuring seamless deployments and efficient troubleshooting.

mCloud is built for customisation and flexibility

Harness advanced compute, high speed storage, and robust networking solutions designed to scale with your enterprise. Integrated security and automation empower your infrastructure to adapt as you grow.

Compute options

- Configurable vCPUs, RAM, and GPU support
- Support for Windows, Linux, and containerised workloads
- Intel XEON Gold CPUs to deliver high performance
- Learn more: https://www.micron21.com/enterprise/mcloud-compute

Storage options

- NVMe SSD for high-performance IOPS
- Geographic replication across three sites
- Object storage for unstructured data
- Information on each solution type is as follows:
- Learn more: https://www.micron21.com/enterprise/mcloud-storage

Network & security

- DDoS Protection & Firewall Policies
- VPN and dedicated interconnect options
- 700Gbps Global Network Capacity
- Learn more: https://www.micron21.com/enterprise/mcloud-networking-security

Integration & API support

- RESTful API for automation
- OpenStack compatibility
- Terraform and Infrastructure-as-Code (IaC) support
- Learn more: https://www.micron21.com/enterprise/mcloud-api-cli-access