

Network Load Balancer



Overview

JioCloud Network Load Balancer provides high-speed Layer 4 load balancing across backend services – purpose-built for high-volume, low-latency applications. It works at the protocol level (TCP/UDP), reroutes traffic when servers go down, and keeps services online across zones. Designed for speed and fault tolerance, it scales automatically and integrates with your existing monitoring and automation tools.

Key Features

- **Fast layer 4 traffic handling**
Handle large volumes of TCP (Transmission Control Protocol) and UDP (User Datagram Protocol) traffic across backends – with minimal delay and overhead.
- **Health-based failover**
Ensure continuous uptime by detecting and rerouting traffic away from unhealthy servers automatically.
- **Multi-zone traffic distribution**
Distribute requests across availability zones for continuous service and protection against outages.
- **Scalable by design**
Instantly add more tunnels, ports, or throughput as demand grows, no re-architecture required.
- **Protocol flexibility**
Seamlessly works with a range of services – from VoIP and DNS to financial APIs and custom apps.
- **API-driven control**
Fully programmable via APIs and Terraform for DevOps and platform teams.

Benefits

- Handle real-time load with consistent low-latency delivery.
- Maintain uptime with built-in failover across zones.
- Eliminate manual routing and reactive troubleshooting.
- Support diverse protocols beyond HTTP/S.
- Scale cleanly as demand grows — without infrastructure sprawl.

Use Case

- **Keep payments flowing**

Balance thousands of TCP connections for real-time transactions — with instant rerouting during backend failures.

- **Power high-concurrency services**

Support multiplayer gaming, video streaming, or telecom apps — with sub-second response times and protocol-level flexibility.

- **Secure always-on operations**

Enable 24/7 uptime for backend APIs and database services — with traffic balanced across redundant zones.

- **Simplify network scaling**

Add or modify traffic rules through APIs and templates — without touching individual nodes or ports.