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# Managed Redis


## Overview

JioCloud Redis gives you the performance of in-memory data with the simplicity of a managed service. You get dedicated Redis clusters — pre-configured for high availability, automatic sharding, and secure access. No need to configure clustering, manage failovers, or script backups yourself. JioCloud handles all of it — so your teams can move faster, scale effortlessly, and trust Redis to stay resilient behind the scenes.

## Key Features

- **Managed redis clusters**
  Launch production-ready clusters in minutes — no manual setup or maintenance.
- **Automatic sharding**
  Distribute data across shards for elastic scaling without re-architecting.
- **Sub-millisecond latency**
  In-memory architecture supports real-time access at scale.
- **Built-in high availability**
  Replica nodes and automatic failover across zones ensure uptime.
- **Data persistence and backup**
  Durable storage with snapshot-based recovery options.
- **Secure by design**
  TLS encryption, IP whitelisting, and access controls safeguard your workloads.
- **Live monitoring and dashboards**
  Track memory usage, key eviction, and throughput in real time.
- **Elastic scaling**
  Add memory and nodes with zero disruption to your application.

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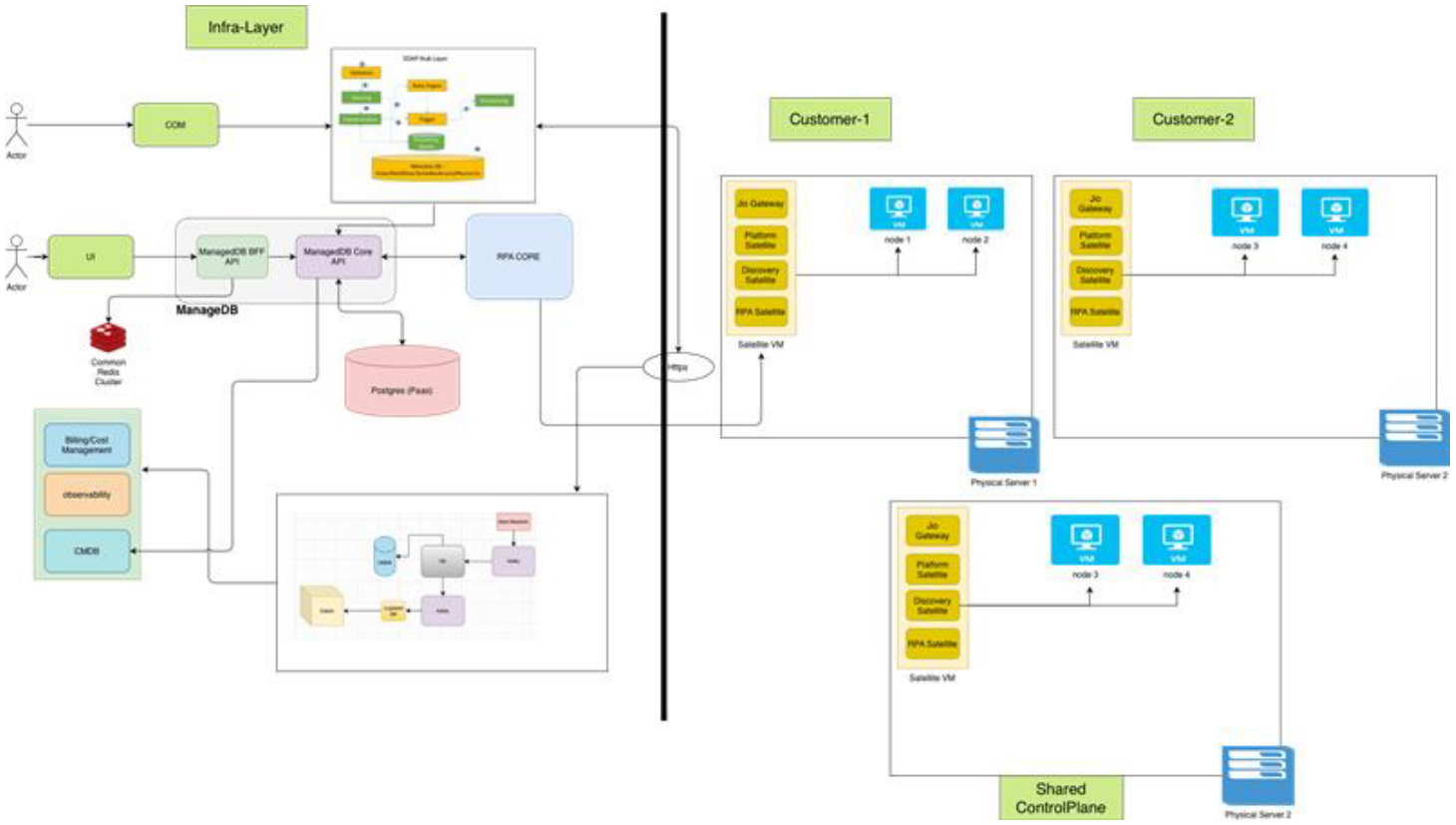
# Benefits

- **Fast, reliable performance**
  Power real-time use cases with lightning-fast access and built-in resilience.
- **Operational ease**
  No need to manage nodes, replication, or failover — it's handled for you.
- **Seamless growth**
  Scale Redis clusters on demand as your data or traffic increases.
- **Enterprise-grade confidence**
  Backed by JioCloud's SLAs, in-region hosting, and compliance-ready security.

## Architecture Diagram



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## Use Cases

- **Application caching**
  Speed up dynamic content delivery and reduce database load.
- **Session state management**
  Handle millions of concurrent sessions with low latency and durability.
- **Real-time leaderboards**
  Drive scoring and voting systems with instant updates.
- **Telemetry and stream buffering**
  Ingest and serve event data at scale with in-memory speed.
- **AI/ML feature stores**
  Feed inference pipelines with real-time data from memory.