



Release Notes

Apusic Key-Value Database

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1 Preface

This document provides the release notes for Apusic Key-Value Database (KVDB) V2.0, helping users quickly understand the content of version updates.

1.1 Target Audience

This document is intended for R&D managers, technical architects, R&D engineers, middleware operations technicians, and anyone interested in KVDB products.

1.2 Related Documentation

For more information about Apusic KVDB V2.0, please refer to the following Apusic KVDB V2.0 product manual documentation set:

No.	Document	Description
1	Apusic Key-Value Database V2.0 Quick Start Guide	A brief introduction on how to quickly get started with KVDB.
2	Apusic Key-Value Database V2.0 Installation Guide	Detailed introduction on how to install KVDB on various operating systems, KVDB service start/stop operations, and the product registration process.
3	Apusic Key-Value Database V2.0 Key-Value Core User Manual	Detailed introduction to KVDB key-value core features, configuration parameters, and usage instructions.
4	Apusic Key-Value Database V2.0 Console User Manual	Detailed instructions on using and operating KVDB console features.
5	Apusic Key-Value Database V2.0 Development Guide	Detailed instructions for developing KVDB client applications using various programming languages.
6	Apusic Key-Value Database V2.0 Migration Guide	Detailed instructions for migrating KVDB from historical versions to V2.0, as well as migrating from Redis to KVDB.
7	Apusic Key-Value Database V2.0 Operations Guide	Detailed instructions for KVDB monitoring, operations, security

		hardening, and other operational procedures.
8	Apsic Key-Value Database V2.0 Performance Tuning Guide	Detailed introduction to KVDB performance tuning, parameter optimization, stress testing methods, and performance monitoring.

1.3 Technical Support

KVDB products provide comprehensive technical support services. You can obtain technical support through the following channels:

- Website: www.apusic.com
- Phone: 400-855-5800
- Email: support@apusic.com
- Kingdee Cloud Community: <https://vip.kingdee.com/?productId=73&productLineId=14&lang=zh-CN>

When requesting technical support, please provide the following information:

1. Your name
2. Company information and contact details
3. Operating system and version
4. Product version number
5. Detailed information including logs, screenshots, etc. of any exceptions or errors

2 Release Notes

This document is the release notes for Apusic Key-Value Database (Apusic Key-Value Database, abbreviated as KVDB) V2.0.6.

Apusic KVDB V2.0 is an enterprise-grade, high-performance key-value database software that is fully compatible with the Redis protocol and development ecosystem, enabling seamless migration without modifying existing business applications. KVDB features core capabilities including high-performance microsecond-level response, high availability with multi-replica fault tolerance, and high scalability with elastic expansion, along with refined web-based visual management. It provides secure and reliable high-frequency data access support for critical business in high-concurrency and distributed scenarios, effectively reducing database pressure and improving overall system throughput.

2.1 About This Version

Apusic KVDB V2.0.6 is compatible with **Redis 8.6**, supports hot update of authentication center authorization files, and the Web console provides core support for V2.0, V2.0.3, V2.0.4, V2.0.5, and V2.0.6 versions.

2.2 New Features and Enhancements

2.2.1 Key-Value Core

- Fully compatible with **Redis 8.6**, adapting to the features and security capabilities of the new version
- Deep support for Chinese national cryptographic algorithms SM2/SM3, implementing full-link TLS encrypted communication based on Chinese cryptography to meet compliance requirements
- The kvdb-check-rdb tool has completed compatibility adaptation for RDB version 13, fully covering RDB files from all historical versions of KVDB and Redis, providing integrity verification and exception repair capabilities
- Adapted to mainstream Redis ecosystem plugins: RedisBloom, RedisSearch, RedisJSON, RedisTimeSeries, Vector Sets, etc.

2.2.2 Console

- Comprehensively optimized and upgraded the console's interaction design and operation logic
- Supports smooth migration of Redis/KVDB
- Added support for V2.0 key-value core features in the console

- Three-role permission control as required by MLPS 2.0 (Multi-Level Protection Scheme), supporting multi-tenancy and user security policy configuration
- Supports upgrade and rollback between different KVDB versions
- Supports updating cluster topology status
- Supports AOF (Append Only File) backup and restore
- Supports the deployment mode that integrates with the authorization center
- Supports viewing cache logs, and splitting and downloading large logs
- Optimized monitoring metrics, supporting data analysis for KVDB
- Full support for CLI + AI SKILL, enabling direct operations on KVDB in natural language

2.3 Major Technical Changes

- Added support for the Multi-Path TCP (MPTCP) protocol. In large-volume data transfer scenarios, overall transmission performance is improved by approximately 70% ~ 120% (compared with single-path TCP), greatly optimizing data transfer efficiency and stability for high-traffic, high-throughput workloads.
- Newly designed and optimized console user interface, providing a more user-friendly operating experience.

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Kingdee Apusic Cloud Computing Co., Ltd. (referred to as “Kingdee Apusic”) was founded in 2000. Its predecessor was “Kingdee Middleware Company.” It is a basic software platform provider under Kingdee Group, a national standards-setting enterprise for cloud computing, and a core software enterprise in the national IT application innovation industry. Kingdee Apusic is an enterprise undertaking the National 863 Key R&D Program and the National Major Science and Technology Project for Core Electronic Components, High-end General-purpose Chips and Fundamental Software, and is also a basic platform provider for the national key projects of “Two Networks, One Website, Four Databases, and Twelve Golden Projects.” Its products are widely used in key industries such as government, military, finance, and energy, and it has cumulatively served more than 100,000 customers.



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