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Release Notes

Kingdee Apusic Application Server V10 Standard Edition

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1 Overview of Kingdee Apusic Application Server

Kingdee Apusic Application Server Standard Edition is a web application server that supports the Jakarta EE specification. It features fast startup and a lightweight, streamlined design, enabling rapid deployment and operation of applications in resource-constrained environments, and supporting rapid development of Java microservice applications represented by Spring Boot.

2 About This Release

This release is named "Kingdee Apusic Application Server V10 SP12", or "AAS-V10 SP12" for short. This release delivers in-depth enhancements across four major dimensions: **Intelligent Operations**, **Full-Stack Observability**, **Defense in Depth**, and **Flexible Tuning**, with the goal of improving system observability, security, and operational efficiency.

3 New Features and Enhancements

3.1 Intelligent Operations: Automation and Open Integration

Committed to reducing operational complexity and improving platform openness and usability:

- **Multilingual Interface and Command-Line Automation:** Full support for **multilingual** interfaces, breaking down internationalization barriers; new powerful **command-line functionality** and **script recording** enable automated orchestration of complex operations.
- **One-Click Online Restart:** A new **Restart Server** entry has been added to the top functional area of the management console, allowing you to restart the application server online without logging in to the server backend. A confirmation prompt and impact description are provided before the operation, simplifying routine O&M tasks.
- **Intelligent Alerting with Multi-Channel Notification:** An upgraded **alert configuration** system supports threshold and consecutive-occurrence trigger rules for multi-dimensional metrics such as CPU usage, memory usage, Full GC count/duration, HTTP timed-out requests, HTTP pending task count, and HTTP error count. It supports multi-channel notifications via email, SNMP, and alert platforms, and provides alert interval control to prevent alert storms, ensuring anomalies reach you immediately.
- **Open Interfaces and Ecosystem Integration:** Standard **interface services** (Prometheus metrics endpoint `/aas-console/metrics` and Restful JSON interface `/aas-console/metrics/data` , with support for security authentication and IP whitelists) and **SNMP configuration** (SNMP agent service, enabling third-party network management systems to collect monitoring data) are provided, facilitating integration with third-party monitoring and network management platforms such as Prometheus and Grafana. A new **Session Manager** and convenient **log viewing** functionality further improve daily O&M efficiency.
- **Brand-New Visual Management Experience:** A fully upgraded **management platform visual interface** delivers more intuitive data presentation and smoother interaction.

3.2 Full-Stack Observability: End-to-End Monitoring and Deep Diagnostics

To address the "black box" problem of running applications, this release introduces comprehensive, full-spectrum visibility from the code level to the system level:

- **Call Chain Analysis and SQL Tracing:** New **Call Chain Analysis** and **SQL Tracing** features visualize request flow paths. SQL tracing supports slow SQL threshold filtering, call stack collection, combined queries by data source/event/keyword, and record export, enabling precise identification of slow queries and performance bottlenecks.
- **Deep JVM Insight:** Provides **Full GC monitoring** (real-time capture of Full GC/Mixed GC events, displaying GC frequency and duration curves and memory region usage, with support for correlating with Heap Dumps), **Class Loading Tracing** (visualizes the class loader hierarchy and class path details to troubleshoot class conflicts and class loading order issues), and **Thread Monitoring**, helping developers gain deep

insight into memory usage and concurrent execution, and quickly troubleshoot memory leaks and deadlocks.

- **Class Conflict and Redundancy Detection:** A new **Class Resource Analysis** capability supports class conflict and redundant dependency detection for deployed applications or uploaded war/jar/zip application files, providing a problem list, remediation suggestions, and report export to help troubleshoot runtime anomalies caused by duplicate classes or version inconsistencies.
- **Snapshots and Fault Retrospection:** Introduces **Snapshot** functionality and **Monitoring Replay** capability, enabling you to save critical runtime states and replay historical fault trajectories; combined with **One-Click Inspection**, system health can be quickly assessed.

3.3 Defense in Depth: Fine-Grained Security Control and Compliance Auditing

A comprehensive upgrade to the platform's security protection system to meet enterprise-grade compliance and high-security requirements:

- **SM Cryptographic Authentication and Transmission Security:** New **SM** cryptographic authentication configuration and **certificate repository configuration** support domestic cryptographic algorithms, safeguarding data transmission security; **security domain configuration** and a **security configuration module** provide fine-grained access control.
- **Fine-Grained Permissions and Full Operation Auditing:** Enhanced **User Management**, **Role Management**, and **Authorization modules** support a fine-grained RBAC permission model; the new **Audit Log module** records and retains a full trace of all critical operations, meeting compliance audit requirements.

3.4 Flexible Tuning: Runtime Configuration and Performance Optimization

More low-level configuration capabilities are opened up, giving administrators stronger performance tuning tools:

- **Custom Tuning of Core Parameters:** Supports custom adjustment of **JVM configuration**, **thread pool configuration**, and **data source configuration**, allowing fine-grained resource allocation based on business load characteristics.
- **Advanced Runtime Features:** New **CRaC configuration** (second-level restart technology) significantly shortens service startup time; **virtual host configuration** and **HTTP channel configuration** enhance resource isolation and communication extensibility.
- **Customizable Logging and Monitoring Policies:** Supports **log configuration**, **JMX configuration**, and **monitoring configuration**, allowing users to define data collection policies and output formats as needed.

3.4.1 Other Feature Changes

None

4 Deprecated and Removed Features

4.0.1 Deprecated Features

None

4.0.2 Removed Features

None

5 Bug Fixes

None

6 Known Issues

None

UNIFIED SERVICE HOTLINE

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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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