Solbox

Solbox Advanced Mornitoring System(AMS)

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1. Contents

1.1. Solbox Advanced Monitoring System

Solbox monitoring system consists of a monitoring system architecture to provide accurate control of large-scale resources and services in real time. This provides intelligent monitoring by collecting and analyzing a large scale of real-time data.

Solbox monitoring system integrates open source-based and self-developed monitoring tools to provide accurate and reliable data through multi-dimensional monitoring and continuous improvement. In addition, it can quickly recognize and respond to service failures through data visualization, multi-channel event alarm, and fault analysis based on event history. Furthermore, it ensures stable and high-quality service through proactive fault detection.

Most of all, our 24X7 real-time monitoring system based on the fault response manual with over 20 years of operational know-how helps fast and reasonable response action to deal with unpredictable service failures

Solbox AMS (Advanced Monitoring System) is our 2nd generation monitoring system for monitoring Solbox CDN operating system, including large-scale resource, network, DNS, cache service and media monitoring from the user perspective.

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1.2. Solbox AMS Dashboard

Figure 1. AMS Dashboard



Figure 2. AMS Dashboard

2. Benefit

- Automated systems provide real-time monitoring for resources and services in the event of an emergency service expansion to provide stable service operations.
- Improves service quality by minimizing service downtime through proactive fault detection.
- Implements optimized monitoring by service and improves operational efficiency with flexible metricspecific threshold settings.
- Provides accurate monitoring data by reducing false alarms through multi-dimensional control.

3. Key Features

Real-time System Monitoring Provides real-time monitoring for entire services.

Maintains overall system monitoring for large-scale equipment such as network, CPU, memory and disk

• End-to-End (E2E) Monitoring

Provides service monitoring from a service provider's perspective

Cache Service Monitoring

Runs periodic download tests, checks service quality and detects abnormalities for a service provider

Media (VOD, Live) Service Monitoring

Performs periodic testing of playback and checks various abnormalities such as interruption of receiving signals, black screen, screen freeze, and audio issue

Service Response Code Monitoring

Monitors response codes for individual service

Traffic Monitoring

Monitor traffic spikes or dips for service-specific anomalies Analyzes traffic patterns by each service to check detailed status

Application Monitoring

Monitors the number of processes of applications by service segment

• Log Monitoring

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Provides reliable service by detecting and predicting the sign of service failure through log monitoring