Page Title: agent-overview

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MotaAgent

In the Agent-based Monitoring system of Motadata AIOps, you can install MotaAgent on your Linux-based or Windows-based monitors. MotaAgent establishes a connection between the monitor and Motadata AIOps, enabling efficient and comprehensive monitoring.

The MotaAgent installed on each device acts as a mediator, continuously collecting monitoring data and transmitting it to the main AIOps server for analysis. This data includes vital information about the device's performance, availability, and other relevant metrics.

Motadata's Agent-based monitoring ensures seamless communication between the agent and the AIOps server, facilitating real-time monitoring and data collection. The agent actively monitors the devices it is installed on and sends the required data to the AIOps server at regular intervals.

Once the agent is successfully installed and configured on a device, it becomes registered as an agent-monitored device within the AIOps server. Each registered device is uniquely identified by its hostname, which serves as a key attribute for effective device management and monitoring.

By utilizing Agent-based Monitoring, you can enhance the monitoring capabilities of Motadata AIOps, enabling you to gather valuable insights and proactively manage the health and performance of your devices.

List of metrics updated every second by the agent

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MotaAgent is a powerful program that updates the value of multiple metrics every second. The list of metrics that are updated every second are listed below:

Field

Description

system.memory.free.bytes

The value of the free memory in the monitored host. (bytes)

system.memory.used.bytes

The value of used memory in the monitored host. (bytes)

system.memory.free.percent

The percentage of free memory out of the total memory in the monitored host. (percentage)

system.memory.used.percent

The percentage of used memory out of the total memory in the monitored host.(percentage)

system.cpu.percent

The value of the CPU utilization percent of the monitored host. (percentage)

Advantages of Agent-based monitoring with Motadata AIOps

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Real-time Polling

: The MotaAgent enables the collection and processing of real-time metrics from devices, with a polling interval as short as 1 second. This ensures that you have up-to-date and accurate insights into the performance and status of your infrastructure.

Continuous Monitoring

: Even if the communication link between the agent and Motadata AIOps is temporarily disrupted, you don't have to worry about losing monitoring data. The agent stores the collected data locally for a specified period, ensuring continuous monitoring even during connectivity issues.

Enhanced Performance

: Agent-based Monitoring empowers you to monitor your entire infrastructure comprehensively. By eliminating performance issues, you gain better visibility into the health, availability, and performance of your devices, allowing you to proactively address potential bottlenecks and optimize system performance.

Simplified Setup

: Setting up monitoring for your devices is made easy with Agent-based Monitoring. Simply install the agent on the desired devices, and they will start sending monitoring data to Motadata AIOps without the need for complex authentication processes. This streamlines the monitoring deployment

and accelerates the time to insights.

Improved Customer Satisfaction

: With quick and easy access to the required information from the system, Agent-based Monitoring contributes to improved customer satisfaction. The ability to monitor devices in real-time, identify and resolve issues promptly, ensures a seamless experience for end-users, ultimately enhancing customer satisfaction levels.

Robust Data Collection

: The physical installation of the agent directly on the device ensures robust and continuous data collection, even in scenarios where the IP address of a device is variable. This guarantees uninterrupted monitoring and data collection, providing a comprehensive view of your infrastructure's performance and health.

By leveraging the advantages of Agent-based Monitoring in Motadata AIOps, you can proactively manage your infrastructure, optimize performance, and deliver exceptional user experiences.

Page Title: architecture-of-agent-based-setup

Architecture of Agent-Based Setup

The agent-based setup consists of two main components:

MotaAgent

AIOps Server

Let us discuss the two major components in further detail.

MotaAgent

: Agent is installed on the server that you need to monitor. This unified agent has multiple capabilities that include metric polling, log forwarding, and more capabilities which we will see in the future. The agent has two major components which help in its functioning:

.exe files (metric, log, and flow)

: These are executable files present in an agent that operate separately for each category, namely metric, log, and flow. They are a set of specialized executable files that run on each host monitored using an agent. They collect the relevant metrics from the system on which they run. These files then move the collected data to the agent manager for further processing.

Agent Manager

: This is a service running on every host that has an agent installed on it. It is responsible for data collection, storing, and moving the data received from all the exe files to the master AIOps server. At the same time, it is also responsible for communicating the UI-level configuration changes made by the user in the agent to all the executable files.

AIOps Server

: This is the master server where AIOps is installed. The data collected by the agent are then passed onto the AIOps via the agent manager. This server is the centralized location where you can view and analyze the data from all the hosts monitored by agents.

Page Title: metric-log-configuration

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Configuring Metric and Log via MotaAgent

MotaAgent is an integral component of motadata AIOPS, enabling seamless monitoring of various system metrics and logs. After you have

installed Agent

on a monitor, you can use this guide to walk you through the process of configuring metrics using MotaAgent. By following these steps, you can easily toggle metric groups ON/OFF for monitoring and adjust their respective polling times.

Navigation

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Go to Menu, Select

Settings

. After that, go to Monitoring . Select

Agent Monitor Settings

. The list of all the agent monitors in the system is now displayed. Click on

View Details

under

Configuration

for the agent that you want to configure.

Configuring Metrics via MotaAgent

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The

Metric

tab for configuring metrics is selected by default. Configure the following settings to ingest the

metric data using MotaAgent.

Field

Description

Metric Agent Status

This field allows you to enable or disable the MotaAgent for monitoring. When toggled on, MotaAgent will begin collecting and reporting metrics.

CPU & Memory Metrics

This field allows you to monitor the CPU and memory utilization of your system. By toggling this field on, MotaAgent will start capturing CPU and memory-related data. To set the polling time for this metric group, enter a minimun value of 1 second. The agent will retrieve CPU and memory data at the specified interval. The default value is configured as 300 seconds.

System Load Metrics

This field allows you to monitor the load on your system. Enabling this toggle will activate the system load monitoring feature. To adjust the polling time for this metric group, specify a minimum value of 5 seconds. The MotaAgent will collect system load data at the defined interval. The default value is configured as 300 seconds.

System Info Metrics

This field allows you to gather detailed information about your system. By enabling this toggle, MotaAgent will start monitoring system information. Set the polling interval for this metric group by entering a minimum value of 600 seconds. The agent will retrieve system information at the specified interval. The default value is configured as 3600 seconds.

CPU Core Metrics

This field enables monitoring of individual CPU cores. Toggle this field on to activate CPU core monitoring. Specify the polling time for this metric group by providing a minimum value of 5 seconds. The agent will capture CPU core data accordingly. The default value is configured as 300 seconds.

Disk Metrics

This field allows you to monitor disk-related statistics. When toggled on, MotaAgent will start

collecting disk metrics. Set the polling time for this metric group by entering a minimum value of 60 seconds. The agent will retrieve disk data at the defined interval. The default value is configured as 300 seconds.

Excluded Disk Drives

This field field lets you specify disk drives that you want to exclude from monitoring. Add the disk drives you wish to exclude from metric collection. This ensures that specific disk drives are not considered for monitoring purposes.

Process Metrics

This field allows you to monitor the performance of various processes running on your system. Enable this toggle to activate process monitoring. Set the polling time for this metric group by entering a minimum value of 60 seconds. MotaAgent will collect process-related data accordingly. The default value is configured as 300 seconds.

Network Metrics

This field allows you to monitor network-related statistics. When toggled on, MotaAgent will start capturing network metrics. Set the polling time for this metric group by specifying a minimum value of 60 seconds. The agent will retrieve network data at the defined interval. The default value is configured as 300 seconds.

Excluded Interfaces

This field allows you to specify network interfaces that you want to exclude from monitoring. Add the network interfaces you wish to exclude from metric collection. This ensures that specific network interfaces are not considered for monitoring purposes.

Windows Service Metrics

This field enables monitoring of Windows services on your system. Enable this toggle to activate Windows service monitoring. Set the polling time for this metric group to specify how often MotaAgent should retrieve Windows service data.

note

Changing the default polling interval will impact server hardware sizing.

Once you have configured the desired metric groups and their respective polling intervals, MotaAgent will efficiently monitor and report the specified metrics and logs. This valuable data will enhance your overall system monitoring and aid in identifying and resolving issues proactively.

Configuring Logs via MotaAgent

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The

Metric

tab for configuring metrics is selected by default. Select the

Log

tab to configure the logs via MotaAgent.

MotaAgent provides seamless log monitoring capabilities to enhance your system's visibility and troubleshooting efficiency. This guide will walk you through the process of configuring log ingestion using MotaAgent. By following these steps, you can easily set up log monitoring from files and directories, as well as Windows Event Logs.

Field

Description

Log Agent Status

To enable log monitoring via MotaAgent, toggle the "Log Agent Status" button to the 'ON' position. This activates the log ingestion feature, allowing MotaAgent to start monitoring logs.

Configuring Log Ingestion from Files and Directories

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Log Include

Specify the extension of the log files you want to ingest by entering the file extension in the "Log Include" field. For example, if you want to monitor only text log files, enter ".txt" in this field. MotaAgent will then ingest logs from files with the specified extension.

Log Directory

Add the directory path from where you want MotaAgent to ingest log files. Provide the full path to the

directory in the "Log Directory" field. MotaAgent will continuously monitor and ingest logs from the specified directory.

Multiline Log

If the logs you want to ingest are multiline logs, enable this toggle button. This feature allows MotaAgent to handle log messages that span multiple lines, ensuring comprehensive log monitoring. Specify the

Log Pattern

and the

File Pattern

for the multiline logs that you want to ingest.

Configuring Windows Event Logs

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Name

Indicate the type of Windows Event Logs you want to ingest whether, "System," "Security," or "Application."

Levels

Specify the log levels you want to ingest from the selected Windows Event Log. You can choose one or more log levels from the following options: Trace, Critical, Error, Warning, Informational, Verbose

Events

Indicate the specific event IDs for which you want to ingest logs from the selected Windows Event Log. Enter the event ID(s) in this field. MotaAgent will monitor and ingest logs that match the specified event IDs.

note

If you do not select a specific log level or event ID, MotaAgent will ingest all available Windows Event Log. This ensures comprehensive monitoring of all events and log messages in that log category.

Once you have configured the log ingestion settings according to your requirements, MotaAgent will efficiently monitor and collect logs from the specified files, directories, and Windows Event Logs. This log data will prove invaluable in gaining insights into system behavior, detecting anomalies, and resolving issues promptly.