### sentry-top-threads

Retrieves the stack status information of the thread with highest CPU usage in a sentry. This command is useful when remotely diagnosing CPU load issue of sentry.

#### Syntax

sentry-top-threads [timeout=INT]

Parameter

**timeout=INT**

RPC timeout in seconds (default: 30 seconds)

#### Description

This query command sends asynchronous RPC request messages to 100 sentries at the same time and waits for responses.The RPC request message queue operates on a first-in, first-out (FIFO) basis. For example, if the Logpresso server needs to send RPC messages to 150 sentries, the server sends an RPC message to 100 sentries first and waits until RPC responses. If the waiting time exceeds the time specified in the timeout (default: 30 seconds), it is considered that an error has occurred on the sentry side. If 32 out of 100 sentries respond or timeout is exceeded, the Logpresso server sends an RPC message to the additional 32 sentries.

The query command outputs the results of RPC response messages in the order they are received. Depending on the load or network conditions of the host where Sentry is installed, the order of the responses may vary with each execution. Use the output data but do not rely on the order of the records.

Logpresso environment variable `logpresso.core.sentry\_rpc\_parallel` determines the length of the asynchronous RPC request message queue. The default value is `100` and you can adjust the length by modifying the value of this environment variable.

Input Field

This query command requires that the input record contains a guid field value.

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| guid | String | Unique sentry identifier (Not relevant to GUID in JAVA) |

Output Field

This query command returns the fields below in addition to the fields from input record.

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| tid | 64-bit Integer | Thread ID |
| name | String | Thread name |
| state | String | Thread status (RUNNABLE, BLOCKED, TIMED\_WAITING, WAITING) |
| priority | 32-bit Integer | Execution priority (from 1 to 10, default: 5) |
| usage | 64-bit Integer | CPU usage time for the last one second (Unit: nanosecond) |
| stacktrace | String | Thread stack |

If any error occurs, this query command returns an \_error field in addition to the fields from input record. Possible errors are as follows:

|  |  |
| --- | --- |
| Error Message | Description |
| guid is null | guid field value from input record is null. |
| guid should be string | guid field value from input record is not a string. |
| guid should be non empty string | guid field value from input record is empty. |
| timeout | RPC request timeout exceeded |
| disconnected | Disconnected while processing RPC request |
| not connected | Sentry is not connected. |

Depending on the system where the sentry is installed, an RPC exception message other than the above can be issued.

#### Usage

Retrieve the stack status of the thread with the highest CPU usage from all sentries.

sentry | fields guid | sentry-top-threads