



**Руководство по системному администрированию
компонента Журналирование (Код компонента: LOGA)
продукта Platform V Monitor (Код продукта: OPM)**

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Термины и определения

Общие термины и определения, используемые в данном документе, представлены в общей документации продукта Platform V Monitor (OPM) в документе «Общее описание продукта Platform V Monitor (OPM)».

Руководство по системному администрированию

Сценарии администрирования

Администратору рекомендуется регулярно выполнять:

- контроль состояния работы системы;
- мониторинг производительности системы;
- контроль свободного места на жестких дисках всех серверов системы, а также в файловой системе.

Сделать это можно с помощью системных метрик и метрики доступности. В рамках выполнения требований безопасной работы системы, Администратор выполняет следующие функции:

- осуществляет контроль использования средств защиты информации;
- осуществляет контроль доступа к обрабатываемым данным пользователями, согласно с их правами доступа;
- несет ответственность за качество проводимых им работ.

Рекомендации по эффективности настройки механизмов безопасности

Доступ к сервису Журналирование должны иметь только те сотрудники, которым он необходим в соответствии с их должностными обязанностями. Доступ должен ограничиваться минимально необходимым объемом данных. Должны разделяться среды разработки, тестирования и эксплуатации. При этом производится разделение обязанностей между разработчиками, тестирующим персоналом и сотрудниками, непосредственно эксплуатирующими уже введенные в промышленную эксплуатацию системы.

При предварительном и последующем конфигурировании необходимо придерживаться следующих рекомендаций:

- не хранить пароли в открытом виде на файловой систем
- генерировать пароли содержащие буквы разных регистров и служебные символы, цифры
- использовать пароли длиной не менее 8 символов
- с периодичностью раз месяц менять пароли
- для всех исходящих и входящих взаимодействий использовать сетевые протоколы с поддержкой двусторонней аутентификации и протокола TLS версии не ниже 1.2
- делать резервные копии настроек пользователей, хранящихся в СУБД Pangolin, не реже одного раза в месяц

События системного журнала

Все действия, производимые компонентами сервиса Журналирование логируются.

Логи пишутся в удалённый сервис Журналирование, за счет вычитки логов из файла FluentBit Sidcar-контейнером и направления их для записи в хранилище Abyss. Логи пишутся на уровне, который несёт сервис по умолчанию.

Событие	Ошибка	Описание	Сообщение
Ошибка подключения к Platform V Аудит SE (AUD)	ERROR	Недоступен хост аудита, проверить работоспособность сервиса аудита	2022-02-11 18:46:37,228 ERROR [main] r.s.p.l.p.b.AuditApplicationListener - error when register audit meta info com.sbt.audit.proxy.client.exception.AuditRuntimeException: ignored executing POST
Ошибка подключения FluentBit к Platform V Corax	ERROR	Ошибка, может быть, из-за неверных хостов Platform V Corax, неверных параметров подключения (SSL, username password если нужен, порты), некорректные сертификаты на стороне Platform V Corax серверов или клиентского приложения, недоступности Kafka	[error] [output:kafka:kafka.0] fluent-bit#producer-1: SSL handshake failed: Disconnected: connecting to a PLAINTEXT broker listener? (after 112067ms in state CONNECT) [2022/02/14 11:18:59] [warn] [output:kafka:kafka.0] fluent-bit#producer-1: [thrd:main]: Metadata request failed: periodic topic and broker list refresh: Local: SSL error (0ms): Permanent [2022/02/14 11:20:49] [error] [output:kafka:kafka.0] fluent-bit#producer-1: SSL handshake failed: Disconnected: connecting to a PLAINTEXT broker listener? (after 110507ms in state CONNECT, 1 identical error(s) suppressed) [2022/02/14 11:46:31]

			[error] [output:kafka:kafka.0] fluent-bit#producer-1: [thrd:app]: fluent-bit#producer-1: 1 request(s) timed out: disconnect (after 1834984ms in state UP)
Ошибка подключения к tracing-collector	INFO	Ошибка может быть из-за неверно настроенного Istio, неверно указанного url трэйсинга или недоступности самого сервиса tracing-collector	INFO: Starting ProtocolHandler ["http-nio-9080"] Feb 11, 2022 6:46:39 PM zipkin2.reporter.AsyncReporter\$BoundedAsyncReporter flush WARNING: Spans were dropped due to exceptions. All subsequent errors will be logged at FINE level.
Ошибка при подключении к БД Platform V Pangolin SE (PSQ)	ERROR	Ошибка может быть из-за неверного хоста БД, неверных параметров подключения (SSL, username, password если нужен), некорректных сертификатов на стороне БД или клиентского приложения	2022-02-14 14:52:42,862 ERROR [http-nio-9080-exec-5] c.z.h.p.HikariPool - HikariPool-1 - Exception during pool initialization. org.postgresql.util.PSQLException: The connection attempt failed.870 ERROR [http-nio-9080-exec-5] r.s.p.l.p.r.RestExceptionHandler - Problem with get user_settings ru.sbrf.platform.logger.pl.PIRuntimeException: Problem with get user_settings

<p>Ошибка OIDC провайдера</p>	<p>WARN</p>	<p>OIDC провайдер не отдает валидный токен, проверить работоспособность сервиса OIDC провайдера</p>	<p>2022-02-14 14:37:42,182 WARN [http-nio-9080-exec-7] r.s.p.l.p.f.LoggerHttpFilter - [RequestFilter] Got request on url /journals/environment/product, sending response 2022-02-14 14:37:42,185 ERROR [http-nio-9080-exec-1] r.s.p.l.p.r.RestExceptionHandler - ru.sbrf.platform.logger.pl.utils.TengriRuntimeException: 401 - {"timestamp": "2022-02-14T11:37:42.181Z", "status": 401, "error": "Unauthorized", "message": "Authentication failed: Token is invalid."}</p>
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События мониторинга

Метрики бизнес слоя

Все приложения LOGA для целей мониторинга ведут подсчет различных метрик. Для сбора метрик они публикуют REST-сервисы, из которых можно получить текущие значения метрик. Сбор метрик, их агрегацию и транспортировку осуществляет компонент Объединенный мониторинг Unimon (MONA) входящий в состав продукта Platform V Monitor (OPM).

Метрика

Тип	Частота использования	Описание	Метрика
<p>jvm_gc_memory_promoted_bytes_total</p>	<p>counter</p>	<p>редко</p>	<p>HELP jvm_gc_memory_promoted_bytes_total Count of positive increases in the size of the old generation memory pool before GC to after GC</p>

process_cpu_usage	gauge	часто	HELP process_cpu_usage The "recent cpu usage" for the Java Virtual Machine process
jvm_memory_usage_after_gc_percent	gauge	редко	HELP jvm_memory_usage_after_gc_percent The percentage of old gen heap used after the last GC event, in the range [0..1]
jvm_buffer_count_buffers	gauge	редко	HELP jvm_buffer_count_buffers An estimate of the number of buffers in the pool
jvm_buffer_memory_used_bytes	gauge	редко	HELP jvm_buffer_memory_used_bytes An estimate of the memory that the Java virtual machine is using for this buffer pool
jvm_gc_pause_seconds	gauge	редко	HELP jvm_gc_pause_seconds Time spent in GC pause
jvm_gc_pause_seconds_max	gauge	редко	HELP jvm_gc_pause_seconds_max Time spent in GC pause
tomcat_connections_current_connections	gauge	редко	HELP tomcat_connections_current_connections
tomcat_cache_access_total	counter	редко	HELP tomcat_cache_access_total
tomcat_connections_config_max_connections	gauge	редко	HELP tomcat_connections_config_max_connections

process_start_time_seconds	gauge	редко	HELP process_start_time_seconds Start time of the process since unix epoch
tomcat_servlet_request_max_seconds	gauge	редко	HELP tomcat_servlet_request_max_seconds
jvm_threads_peak_threads	gauge	редко	HELP jvm_threads_peak_threads The peak live thread count since the Java virtual machine started or peak was reset
jvm_buffer_total_capacity_bytes	gauge	редко	HELP jvm_buffer_total_capacity_bytes An estimate of the total capacity of the buffers in this pool
tomcat_global_request_seconds	summary	редко	HELP tomcat_global_request_seconds
jvm_compilation_time_ms_total	counter	редко	HELP jvm_compilation_time_ms_total The approximate accumulated elapsed time spent in compilation
tomcat_connections_keepalive_current_connections	gauge	редко	HELP tomcat_connections_keepalive_current_connections
tomcat_global_sent_bytes_total	counter	редко	HELP tomcat_global_sent_bytes_total
jvm_memory_used_bytes	gauge	часто	HELP jvm_memory_used_bytes The amount of used memory
tomcat_threads_current_threads	gauge	редко	HELP tomcat_threads_current_threads

process_uptime_seconds	gauge	редко	HELP process_uptime_seconds The uptime of the Java virtual machine
tomcat_servlet_error_total	counter	редко	HELP tomcat_servlet_error_total
system_cpu_usage	gauge	часто	HELP system_cpu_usage The "recent cpu usage" for the whole system
jvm_threads_daemon_threads	gauge	редко	HELP jvm_threads_daemon_threads The current number of live daemon threads
system_load_average_1m	gauge	редко	HELP system_load_average_1m The sum of the number of runnable entities queued to available processors and the number of runnable entities running on the available processors averaged over a period of time
jvm_gc_max_data_size_bytes	gauge	редко	HELP jvm_gc_max_data_size_bytes Max size of long-lived heap memory pool
tomcat_global_error_total	counter	редко	HELP tomcat_global_error_total
jvm_classes_loaded_classes	gauge	редко	HELP jvm_classes_loaded_classes The number of classes that are currently loaded in the Java virtual machine

jvm_gc_memory_allocated_bytes_total	counter	редко	HELP jvm_gc_memory_allocated_bytes_total Incremented for an increase in the size of the (young) heap memory pool after one GC to before the next
jvm_memory_committed_bytes	gauge	редко	HELP jvm_memory_committed_bytes The amount of memory in bytes that is committed for the Java virtual machine to use
jvm_threads_live_threads	gauge	редко	HELP jvm_threads_live_threads The current number of live threads including both daemon and non-daemon threads
system_cpu_count	gauge	редко	HELP system_cpu_count The number of processors available to the Java virtual machine
jvm_gc_overhead_percent	gauge	редко	HELP jvm_gc_overhead_percent An approximation of the percent of CPU time used by GC activities over the last lookback period or since monitoring began, whichever is shorter, in the range [0..1]

jvm_gc_live_data_size_bytes	gauge	редко	HELP jvm_gc_live_data_size_bytes Size of long-lived heap memory pool after reclamation
tomcat_global_received_bytes_total	counter	редко	HELP tomcat_global_received_bytes_total
tomcat_global_request_max_seconds	gauge	редко	HELP tomcat_global_request_max_seconds
tomcat_cache_hit_total	counter	редко	HELP tomcat_cache_hit_total
tomcat_servlet_request_seconds	summary	редко	HELP tomcat_servlet_request_seconds
jvm_threads_states_threads	gauge	редко	HELP jvm_threads_states_threads The current number of threads having NEW state
tomcat_threads_busy_threads	gauge	редко	HELP tomcat_threads_busy_threads
jvm_memory_max_bytes	gauge	часто	HELP jvm_memory_max_bytes The maximum amount of memory in bytes that can be used for memory management
jvm_classes_unloaded_classes_total	counter	редко	HELP jvm_classes_unloaded_classes_total The total number of classes unloaded since the Java virtual machine has started execution
tomcat_threads_config_max_threads	gauge	редко	HELP tomcat_threads_config_max_threads

Метрики Sidecar-контейнера

Метрика	Тип метрики	Описание
fluentbit_filter_add_records_total	counter	HELP fluentbit_filter_add_records_total Fluentbit metrics
fluentbit_filter_drop_records_total	counter	HELP fluentbit_filter_drop_records_total Fluentbit metrics
fluentbit_input_bytes_total	counter	HELP fluentbit_input_bytes_total Number of input bytes
fluentbit_input_files_closed_total	counter	HELP fluentbit_input_files_closed_total Fluentbit metrics
fluentbit_input_files_opened_total	counter	HELP fluentbit_input_files_opened_total Fluentbit metrics
fluentbit_input_files_rotated_total	counter	HELP fluentbit_input_files_rotated_total Fluentbit metrics
fluentbit_input_records_total	counter	HELP fluentbit_input_records_total Number of input records
fluentbit_output_errors_total	counter	HELP fluentbit_output_errors_total Number of output errors
fluentbit_output_proc_bytes_total	counter	HELP fluentbit_output_proc_bytes_total Number of processed output bytes
fluentbit_output_proc_records_total	counter	HELP fluentbit_output_proc_records_total Number of processed output records.
fluentbit_output_retries_failed_total	counter	HELP fluentbit_output_retries_failed_total Number of abandoned batches because the maximum number of re-tries was reached
fluentbit_output_retries_total	counter	HELP fluentbit_output_retries_total Number of output retries

process_start_time_seconds	gauge	HELP process_start_time_seconds Start time of the process since unix epoch in seconds
fluentbit_build_info	gauge	HELP fluentbit_build_info Build version information

Метрики REST Endpoint

Метрика	Тип метрики	Описание
process_cpu_usage	gauge	HELP process_cpu_usage The "recent cpu usage" for the Java Virtual Machine process
tomcat_threads_config_max_threads	gauge	HELP tomcat_threads_config_max_threads
jvm_threads_live_threads	gauge	HELP jvm_threads_live_threads The current number of live threads including both daemon and non-daemon threads
jvm_gc_max_data_size_bytes	gauge	HELP jvm_gc_max_data_size_bytes Max size of long-lived heap memory pool
jvm_gc_overhead_percent	gauge	HELP jvm_gc_overhead_percent An approximation of the percent of CPU time used by GC activities over the last lookback period or since monitoring began, whichever is shorter, in the range [0..1]
jvm_memory_committed_bytes	gauge	HELP jvm_memory_committed_bytes The amount of memory in bytes that is committed for the Java virtual machine to use

tomcat_global_error_total	counter	HELP tomcat_global_error_total
jvm_threads_daemon_threads	gauge	HELP jvm_threads_daemon_threads The current number of live daemon threads
jvm_gc_pause_seconds	summary	HELP jvm_gc_pause_seconds Time spent in GC pause
jvm_gc_pause_seconds_max	gauge	HELP jvm_gc_pause_seconds_max Time spent in GC pause
jvm_memory_used_bytes	gauge	HELP jvm_memory_used_bytes The amount of used memory
tomcat_servlet_request_max_seconds	gauge	HELP tomcat_servlet_request_max_seconds
system_cpu_count	gauge	HELP system_cpu_count The number of processors available to the Java virtual machine
jvm_memory_usage_after_gc_percent	gauge	HELP jvm_memory_usage_after_gc_percent The percentage of old gen heap used after the last GC event, in the range [0..1]
process_uptime_seconds	gauge	HELP process_uptime_seconds The uptime of the Java virtual machine
tomcat_global_received_bytes_total	counter	HELP tomcat_global_received_bytes_total
tomcat_threads_current_threads	gauge	HELP tomcat_threads_current_threads

jvm_gc_memory_allocated_bytes_total	counter	HELP jvm_gc_memory_allocated_bytes_total Incremented for an increase in the size of the (young) heap memory pool after one GC to before the next
jvm_buffer_memory_used_bytes	gauge	HELP jvm_buffer_memory_used_bytes An estimate of the memory that the Java virtual machine is using for this buffer pool
system_load_average_1m	gauge	HELP system_load_average_1m The sum of the number of runnable entities queued to available processors and the number of runnable entities running on the available processors averaged over a period of time
tomcat_servlet_request_seconds	summary	HELP tomcat_servlet_request_seconds
process_start_time_seconds	gauge	HELP process_start_time_seconds Start time of the process since unix epoch
jvm_memory_max_bytes	gauge	HELP jvm_memory_max_bytes The maximum amount of memory in bytes that can be used for memory management
tomcat_global_request_max_seconds	gauge	HELP tomcat_global_request_max_seconds
tomcat_connections_keepalive_current_connections	gauge	HELP tomcat_connections_keepalive_current_connections

jvm_buffer_count_buffers	gauge	HELP jvm_buffer_count_buffers An estimate of the number of buffers in the pool
jvm_buffer_total_capacity_bytes	gauge	HELP jvm_buffer_total_capacity_bytes An estimate of the total capacity of the buffers in this pool
tomcat_threads_busy_threads	gauge	HELP tomcat_threads_busy_threads
system_cpu_usage	gauge	HELP system_cpu_usage The "recent cpu usage" for the whole system
jvm_threads_peak_threads	gauge	HELP jvm_threads_peak_threads The peak live thread count since the Java virtual machine started or peak was reset
jvm_classes_unloaded_classes_total	counter	HELP jvm_classes_unloaded_classes_total The total number of classes unloaded since the Java virtual machine has started execution
tomcat_connections_current_connections	gauge	HELP tomcat_connections_current_connections
jvm_threads_states_threads	gauge	HELP jvm_threads_states_threads The current number of threads having NEW state
tomcat_cache_access_total	counter	HELP tomcat_cache_access_total
tomcat_global_request_seconds	summary	HELP tomcat_global_request_seconds

jvm_compilation_time_ms_total	counter	HELP jvm_compilation_time_ms_total The approximate accumulated elapsed time spent in compilation
jvm_classes_loaded_classes	gauge	HELP jvm_classes_loaded_classes The number of classes that are currently loaded in the Java virtual machine
tomcat_global_sent_bytes_total	counter	HELP tomcat_global_sent_bytes_total
tomcat_cache_hit_total	counter	HELP tomcat_cache_hit_total
jvm_gc_memory_promoted_bytes_total	counter	HELP jvm_gc_memory_promoted_bytes_total Count of positive increases in the size of the old generation memory pool before GC to after GC
jvm_gc_live_data_size_bytes	gauge	HELP jvm_gc_live_data_size_bytes Size of long-lived heap memory pool after reclamation
tomcat_connections_config_max_connections	gauge	HELP tomcat_connections_config_max_connections
tomcat_servlet_error_total	counter	HELP tomcat_servlet_error_total

Метрики Trace Collector

Метрика	Тип метрики	Описание
system_cpu_count	gauge	HELP system_cpu_count The number of processors available to the Java virtual machine
jvm_gc_max_data_size_bytes	gauge	HELP jvm_gc_max_data_size_bytes Max size of long-lived heap memory pool

kafka_producer_batch_split_total	counter	HELP kafka_producer_batch_split_total The total number of batch splits
tomcat_servlet_request_max_seconds	gauge	HELP tomcat_servlet_request_max_seconds
tomcat_cache_access_total	counter	HELP tomcat_cache_access_total
kafka_producer_topic_byte_total	counter	HELP kafka_producer_topic_byte_total The total number of bytes sent for a topic
kafka_producer_response_total	counter	HELP kafka_producer_response_total The total number of responses received
tomcat_connections_config_max_connections	gauge	HELP tomcat_connections_config_max_connections
kafka_producer_record_retry_rate	gauge	HELP kafka_producer_record_retry_rate The average per-second number of retried record sends
kafka_producer_topic_record_error_total	counter	HELP kafka_producer_topic_record_error_total The total number of record sends that resulted in errors for a topic
jvm_threads_daemon_threads	gauge	HELP jvm_threads_daemon_threads The current number of live daemon threads
kafka_producer_connection_close_total	counter	HELP kafka_producer_connection_close_total The total number of connections closed
kafka_producer_topic_record_send_total	counter	HELP kafka_producer_topic_record_send_total The total number of records sent for a topic
jvm_threads_states_threads	gauge	HELP jvm_threads_states_threads The current number of threads having NEW state

tomcat_global_request_max_seconds	gauge	HELP tomcat_global_request_max_seconds
kafka_producer_buffer_exhausted_total	counter	HELP kafka_producer_buffer_exhausted_total The total number of record sends that are dropped due to buffer exhaustion
tomcat_threads_busy_threads	gauge	HELP tomcat_threads_busy_threads
kafka_producer_failed_reauthentication_total	counter	HELP kafka_producer_failed_reauthentication_total The total number of failed re-authentication of connections
kafka_producer_record_size_max	gauge	HELP kafka_producer_record_size_max The maximum record size
kafka_producer_node_request_latency_max	gauge	HELP kafka_producer_node_request_latency_max
tomcat_connections_keepalive_current_connections	gauge	HELP tomcat_connections_keepalive_current_connections
kafka_producer_request_latency_avg	gauge	HELP kafka_producer_request_latency_avg The average request latency in ms
kafka_producer_topic_byte_rate	gauge	HELP kafka_producer_topic_byte_rate The average number of bytes sent per second for a topic
kafka_producer_buffer_exhausted_rate	gauge	HELP kafka_producer_buffer_exhausted_rate The average per-second number of record sends that are dropped due to buffer exhaustion
kafka_producer_record_queue_time_max	gauge	HELP kafka_producer_record_queue_time_max The maximum time in ms record batches spent in the send buffer

process_uptime_seconds	gauge	HELP process_uptime_seconds The uptime of the Java virtual machine
jvm_buffer_count_buffers	gauge	HELP jvm_buffer_count_buffers An estimate of the number of buffers in the pool
jvm_threads_peak_threads	gauge	HELP jvm_threads_peak_threads The peak live thread count since the Java virtual machine started or peak was reset
tomcat_global_error_total	counter	HELP tomcat_global_error_total
kafka_producer_record_error_rate	gauge	HELP kafka_producer_record_error_rate The average per-second number of record sends that resulted in errors
kafka_producer_node_request_latency_avg	gauge	HELP kafka_producer_node_request_latency_avg
kafka_producer_reauthentication_latency_avg	gauge	HELP kafka_producer_reauthentication_latency_avg The average latency observed due to re-authentication
kafka_producer_topic_compression_rate	gauge	HELP kafka_producer_topic_compression_rate The average compression rate of record batches for a topic
kafka_producer_io_wait_time_ns_avg	gauge	HELP kafka_producer_io_wait_time_ns_avg The average length of time the I/O thread spent waiting for a socket ready for reads or writes in nanoseconds

system_cpu_usage	gauge	HELP system_cpu_usage The "recent cpu usage" for the whole system
tracing_collector_kafka_put_success	gauge	HELP tracing_collector_kafka_put_success
jvm_classes_unloaded_classes_total	counter	HELP jvm_classes_unloaded_classes_total The total number of classes unloaded since the Java virtual machine has started execution
kafka_producer_incoming_byte_total	counter	HELP kafka_producer_incoming_byte_total The total number of bytes read off all sockets
tracing_collector_http_arrived_success	gauge	HELP tracing_collector_http_arrived_success
tracing_collector_http_decode_success	gauge	HELP tracing_collector_http_decode_success
kafka_producer_metadata_age	gauge	HELP kafka_producer_metadata_age The age in seconds of the current producer metadata being used
kafka_producer_reauthentication_latency_max	gauge	HELP kafka_producer_reauthentication_latency_max The max latency observed due to re-authentication
kafka_producer_request_total	counter	HELP kafka_producer_request_total The total number of requests sent
kafka_producer_incoming_byte_rate	gauge	HELP kafka_producer_incoming_byte_rate The number of bytes read off all sockets per second

kafka_producer_connection_creation_total	counter	HELP kafka_producer_connection_creation_total The total number of new connections established
kafka_producer_requests_in_flight	gauge	HELP kafka_producer_requests_in_flight The current number of in-flight requests awaiting a response
jvm_classes_loaded_classes	gauge	HELP jvm_classes_loaded_classes The number of classes that are currently loaded in the Java virtual machine
kafka_producer_connection_creation_rate	gauge	HELP kafka_producer_connection_creation_rate The number of new connections established per second
kafka_producer_node_incoming_byte_rate	gauge	HELP kafka_producer_node_incoming_byte_rate The number of incoming bytes per second
kafka_producer_node_outgoing_byte_rate	gauge	HELP kafka_producer_node_outgoing_byte_rate The number of outgoing bytes per second
kafka_producer_batch_size_max	gauge	HELP kafka_producer_batch_size_max The max number of bytes sent per partition per-request
tomcat_global_request_seconds	summary	HELP tomcat_global_request_seconds
kafka_producer_io_time_ns_avg	gauge	HELP kafka_producer_io_time_ns_avg The average length of time for I/O per select call in nanoseconds
jvm_memory_used_bytes	gauge	HELP jvm_memory_used_bytes The amount of used memory

jvm_threads_live_threads	gauge	HELP jvm_threads_live_threads The current number of live threads including both daemon and non-daemon threads
tomcat_global_received_bytes_total	counter	HELP tomcat_global_received_bytes_total
kafka_producer_successful_authentication_total	counter	HELP kafka_producer_successful_authentication_total The total number of connections with successful authentication
kafka_producer_buffer_available_bytes	gauge	HELP kafka_producer_buffer_available_bytes The total amount of buffer memory that is not being used (either unallocated or in the free list)
kafka_producer_io_wait_ratio	gauge	HELP kafka_producer_io_wait_ratio The fraction of time the I/O thread spent waiting
kafka_producer_bufferpool_wait_time_total	counter	HELP kafka_producer_bufferpool_wait_time_total The total time an appender waits for space allocation
kafka_producer_record_error_total	counter	HELP kafka_producer_record_error_total The total number of record sends that resulted in errors
kafka_producer_waiting_threads	gauge	HELP kafka_producer_waiting_threads The number of user threads blocked waiting for buffer memory to enqueue their records

kafka_producer_successful_reauthentication_rate	gauge	HELP kafka_producer_successful_reauthentication_rate The number of successful re-authentication of connections per second
kafka_producer_connection_close_rate	gauge	HELP kafka_producer_connection_close_rate The number of connections closed per second
kafka_producer_topic_record_error_rate	gauge	HELP kafka_producer_topic_record_error_rate The average per-second number of record sends that resulted in errors for a topic
kafka_producer_outgoing_byte_total	counter	HELP kafka_producer_outgoing_byte_total The total number of outgoing bytes sent to all servers
jvm_gc_memory_promoted_bytes_total	counter	HELP jvm_gc_memory_promoted_bytes_total Count of positive increases in the size of the old generation memory pool before GC to after GC
jvm_memory_max_bytes	gauge	HELP jvm_memory_max_bytes The maximum amount of memory in bytes that can be used for memory management
kafka_producer_successful_authentication_rate	gauge	HELP kafka_producer_successful_authentication_rate The number of connections with successful authentication per second

kafka_producer_topic_record_retry_total	counter	HELP kafka_producer_topic_record_retry_total The total number of retried record sends for a topic
kafka_producer_produce_throttle_time_max	gauge	HELP kafka_producer_produce_throttle_time_max The maximum time in ms a request was throttled by a broker
process_start_time_seconds	gauge	HELP process_start_time_seconds Start time of the process since unix epoch
kafka_producer_select_total	counter	HELP kafka_producer_select_total The total number of times the I/O layer checked for new I/O to perform
kafka_producer_records_per_request_avg	gauge	HELP kafka_producer_records_per_request_avg The average number of records per request
kafka_producer_iotime_total	counter	HELP kafka_producer_iotime_total The total time the I/O thread spent doing I/O
kafka_producer_network_io_rate	gauge	HELP kafka_producer_network_io_rate The number of network operations (reads or writes) on all connections per second
jvm_gc_memory_allocated_bytes_total	counter	HELP jvm_gc_memory_allocated_bytes_total Incremented for an increase in the size of the (young) heap memory pool after one GC to before the next
kafka_producer_batch_size_avg	gauge	HELP kafka_producer_batch_size_avg The average number of bytes sent per partition per-request

kafka_app_info_start_time_ms	gauge	HELP kafka_app_info_start_time_ms Metric indicating start-time-ms
kafka_producer_network_io_total	counter	HELP kafka_producer_network_io_total The total number of network operations (reads or writes) on all connections
jvm_gc_overhead_percent	gauge	HELP jvm_gc_overhead_percent An approximation of the percent of CPU time used by GC activities over the last lookback period or since monitoring began, whichever is shorter, in the range [0..1]
tomcat_connections_current_connections	gauge	HELP tomcat_connections_current_connections
kafka_producer_request_rate	gauge	HELP kafka_producer_request_rate The number of requests sent per second
tomcat_servlet_request_seconds	summary	HELP tomcat_servlet_request_seconds
kafka_producer_io_ratio	gauge	HELP kafka_producer_io_ratio The fraction of time the I/O thread spent doing I/O
tomcat_servlet_error_total	counter	HELP tomcat_servlet_error_total
jvm_gc_live_data_size_bytes	gauge	HELP jvm_gc_live_data_size_bytes Size of long-lived heap memory pool after reclamation
tomcat_global_sent_bytes_total	counter	HELP tomcat_global_sent_bytes_total

kafka_producer_node_outgoing_byte_total	counter	HELP kafka_producer_node_outgoing_byte_total The total number of outgoing bytes
kafka_producer_failed_authentication_rate	gauge	HELP kafka_producer_failed_authentication_rate The number of connections with failed authentication per second
kafka_producer_outgoing_byte_rate	gauge	HELP kafka_producer_outgoing_byte_rate The number of outgoing bytes sent to all servers per second
kafka_producer_produce_throttle_time_avg	gauge	HELP kafka_producer_produce_throttle_time_avg The average time in ms a request was throttled by a broker
tracing_collector_http_decode_fail	gauge	HELP tracing_collector_http_decode_fail
kafka_producer_node_incoming_byte_total	counter	HELP kafka_producer_node_incoming_byte_total The total number of incoming bytes
jvm_buffer_memory_used_bytes	gauge	HELP jvm_buffer_memory_used_bytes An estimate of the memory that the Java virtual machine is using for this buffer pool
kafka_producer_successful_authentication_no_reauth_total	counter	HELP kafka_producer_successful_authentication_no_reauth_total The total number of connections with successful authentication where the client does not support re-authentication
jvm_buffer_total_capacity_bytes	gauge	HELP jvm_buffer_total_capacity_bytes An estimate of the total capacity of the buffers in this pool

kafka_producer_buffer_total_bytes	gauge	HELP kafka_producer_buffer_total_bytes The maximum amount of buffer memory the client can use (whether or not it is currently used)
kafka_producer_request_size_max	gauge	HELP kafka_producer_request_size_max The maximum size of any request sent
kafka_producer_node_request_size_avg	gauge	HELP kafka_producer_node_request_size_avg The average size of requests sent
kafka_producer_topic_record_send_rate	gauge	HELP kafka_producer_topic_record_send_rate The average number of records sent per second for a topic
kafka_producer_topic_record_retry_rate	gauge	HELP kafka_producer_topic_record_retry_rate The average per-second number of retried record sends for a topic
kafka_producer_select_rate	gauge	HELP kafka_producer_select_rate The number of times the I/O layer checked for new I/O to perform per second
tomcat_threads_current_threads	gauge	HELP tomcat_threads_current_threads
process_cpu_usage	gauge	HELP process_cpu_usage The "recent cpu usage" for the Java Virtual Machine process
kafka_producer_successful_reauthentication_total	counter	HELP kafka_producer_successful_reauthentication_total The total number of successful re-authentication of connections

jvm_memory_committed_bytes	gauge	HELP jvm_memory_committed_bytes The amount of memory in bytes that is committed for the Java virtual machine to use
tomcat_cache_hit_total	counter	HELP tomcat_cache_hit_total
kafka_producer_record_retry_total	counter	HELP kafka_producer_record_retry_total The total number of retried record sends
kafka_producer_bufferpool_wait_ratio	gauge	HELP kafka_producer_bufferpool_wait_ratio The fraction of time an appender waits for space allocation
kafka_producer_record_queue_time_avg	gauge	HELP kafka_producer_record_queue_time_avg The average time in ms record batches spent in the send buffer
kafka_producer_response_rate	gauge	HELP kafka_producer_response_rate The number of responses received per second
jvm_gc_pause_seconds	summary	HELP jvm_gc_pause_seconds Time spent in GC pause
jvm_gc_pause_seconds_max	gauge	HELP jvm_gc_pause_seconds_max Time spent in GC pause
kafka_producer_request_latency_max	gauge	HELP kafka_producer_request_latency_max The maximum request latency in ms
kafka_producer_node_request_size_max	gauge	HELP kafka_producer_node_request_size_max The maximum size of any request sent

kafka_producer_node_request_rate	gauge	HELP kafka_producer_node_request_rate The number of requests sent per second
kafka_producer_record_send_rate	gauge	HELP kafka_producer_record_send_rate The average number of records sent per second
kafka_producer_node_response_rate	gauge	HELP kafka_producer_node_response_rate The number of responses received per second
kafka_producer_compression_rate_avg	gauge	HELP kafka_producer_compression_rate_avg The average compression rate of record batches
kafka_producer_node_request_total	counter	HELP kafka_producer_node_request_total The total number of requests sent
kafka_producer_failed_authentication_total	counter	HELP kafka_producer_failed_authentication_total The total number of connections with failed authentication
kafka_producer_failed_reauthentication_rate	gauge	HELP kafka_producer_failed_reauthentication_rate The number of failed re-authentication of connections per second
tracing_collector_kafka_put_fail	gauge	HELP tracing_collector_kafka_put_fail
tomcat_threads_config_max_threads	gauge	HELP tomcat_threads_config_max_threads

system_load_average_1m	gauge	HELP system_load_average_1m The sum of the number of runnable entities queued to available processors and the number of runnable entities running on the available processors averaged over a period of time
kafka_producer_request_size_avg	gauge	HELP kafka_producer_request_size_avg The average size of requests sent
kafka_producer_io_waittime_total	counter	HELP kafka_producer_io_waittime_total The total time the I/O thread spent waiting
kafka_producer_node_response_total	counter	HELP kafka_producer_node_response_total The total number of responses received
jvm_memory_usage_after_gc_percent	gauge	HELP jvm_memory_usage_after_gc_percent The percentage of old gen heap used after the last GC event, in the range [0..1]
kafka_producer_record_send_total	counter	HELP kafka_producer_record_send_total The total number of records sent
kafka_producer_batch_split_rate	gauge	HELP kafka_producer_batch_split_rate The average number of batch splits per second
jvm_compilation_time_ms_total	counter	HELP jvm_compilation_time_ms_total The approximate accumulated elapsed time spent in compilation

kafka_producer_connection_count_total	counter	HELP kafka_producer_connection_count_total The current number of active connections
kafka_producer_record_size_avg	gauge	HELP kafka_producer_record_size_avg The average record size

Часто встречающиеся проблемы и пути их устранения

База знаний по эксплуатации решения не накоплена.