Genesys Info Mart Private Edition Guide

GSP metrics and alerts

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Contents

Find the metrics GSP exposes and the alerts defined for GSP.

Related documentation:

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Service	CRD or annotations?	Port	Endpoint/Selector	Metrics update interval

GSP	PodMonitor	9249	Endpoint: /
			Selector:
			`matchLabels:`
			`  app: {{ template "gsp.fullname" . }}`
			where the value of `gsp.fullname` depends on deployment parameters such as Helm release name, `.Values.fullnameOverride`, and `.Values.nameOverride`.
				30 seconds

See details about:

- GSP metrics
- GSP alerts

Metrics

GSP exposes some standard Apache Flink and Kafka metrics as well as Genesys-defined metrics, which are exposed via the Flink API. Therefore, all GSP metrics start with the prefix **flink_** but in some cases the values are calculated by GSP.

You can query Prometheus directly to see all the metrics Flink and the Flink Kafka connector expose through GSP.

- For full information about the standard Flink metrics, see the Apache Flink documentation.
- For full information about the Kafka metrics, see the Apache Kafka or Confluent Kafka documentation.

The following metrics are likely to be particularly useful. The naming convention is _. Genesys does not commit to maintain other currently available GSP metrics not documented on this page.

Metric and description	Metric details	Indicator of
flink_taskmanager_job_task_operator_errors_numInvalidRecords		Error

Metric and description	Metric details	Indicator of
Number of invalid input records.	**Type:** Gauge **Label:** **Sample value:** 0	
flink_jobmanager_numRunningJobs Number of running Flink jobs. If less than 1, there is a problem.	**Unit:** **Type:** Gauge **Label:** **Sample value:** 1	Error
flink_taskmanager_job_task_operator_user_errors_numOversizedMessages Number of messages exceeding the **max.request.size** Kafka option.	**Unit:** **Type:** Gauge **Label:** • operator_name **Sample value:** 0	Error
flink_taskmanager_job_task_operator_tenant_error_total Number of issues encountered, such as errors or warnings.	**Unit:** **Type:** Gauge **Label:** • operator_name • tenant • error **Sample value:**	Error
flink_taskmanager_job_task_operator_currentInputWatermark The last watermark received by this operator/task, in milliseconds since the Unix Epoch (00:00:00 UTC on 1 January 1970). **Note:** For operators/tasks with two inputs, this is the earlier of the last received watermarks.	**Unit:** milliseconds **Type:** Gauge **Label:** • operator_name **Sample value:**	Latency

flink_taskmanager_job_task_operator_currentOutputWatermark
The last watermark this operator has emitted, in milliseconds since the Unix Epoch.
	Unit: milliseconds
	Type: Gauge
	Label:
	• operator_name:
	  • Sink:_Agent_State_Facts
	  • Sink:_Interaction_Facts
	Sample value:
		Latency

flink_taskmanager_job_task_operator_records_lag_max The maximum lag in terms of the number of records for any partition in this window. An increasing value over time is your best indication that the consumer group is not	**Unit:** **Type:** Gauge **Label:** **Sample value:**	Latency

Metric and description	Metric details	Indicator of
keeping up with the producers.		
flink_taskmanager_job_task_operator_records_consumed_rate The average number of records consumed per second.	**Unit:** **Type:** Gauge **Label:** **Sample value:**	Traffic
flink_taskmanager_job_task_operator_numCallsCreated Total number of EventCallCreated events GSP received since it started processing.	**Unit:** **Type:** Gauge **Label:** **Sample value:**	Traffic
flink_taskmanager_job_task_operator_numCallsCreatedPerSecond Number of EventCallCreated events per second (CPS).	**Unit:** **Type:** Gauge **Label:** **Sample value:**	Traffic
flink_taskmanager_job_task_operator_numThreadsCreated Total number of CallThreads GSP received since it started processing.	**Unit:** **Type:** Gauge **Label:** **Sample value:**	Traffic
flink_taskmanager_job_task_operator_numCallThreadsCreatedPerSecond Number of CallThreads per second (CTHPS).	**Unit:** **Type:** Gauge **Label:** **Sample value:**	Traffic
flink_taskmanager_job_task_operator_numChainsProcessed Total number of EventOCSChainStartProcessing events GSP received since it started processing.	**Unit:** **Type:** Gauge **Label:** **Sample value:**	Traffic
flink_taskmanager_job_task_operator_numChainsProcessedPerSecond Number of EventOCSChainStartProcessing events per second (CPS).	**Unit:** **Type:** Gauge **Label:** **Sample value:**	Traffic
flink_(job|task)manager_Status_JVM_CPU_Load The recent CPU usage for the JVM process. The value is a double in the [0.0,1.0] interval, where a value of 0.0 means that none of the CPUs were running threads from the JVM process, while a value of 1.0 means that all CPUs were actively running threads from the JVM 100% of the time during the recent period being observed. A negative value means usage data is not available. For more information, see https://docs.oracle.com/javase/7/docs/jre/api/management/extension/com/sun/management/OperatingSystemMXBean.html#getProcessCpuLoad().	**Unit:** **Type:** Gauge **Label:** • pod **Sample value:**	Saturation
flink_(job|task)manager_Status_JVM_Memory_Direct_TotalCapacity	**Unit:** bytes	Saturation

Metric and description	Metric details	Indicator of
The total capacity of all buffers in the direct buffer pool.	**Type:** Gauge **Label:** • pod **Sample value:**	
flink_(job|task)manager_Status_JVM_Memory_Direct_MemoryUsed The amount of memory used by the JVM for the direct buffer pool.	**Unit:** bytes **Type:** Gauge **Label:** • pod **Sample value:**	Saturation
flink_(job|task)manager_Status_JVM_Memory_NonHeap_Max The maximum amount of non-heap memory that can be used for memory management.	**Unit:** bytes **Type:** Gauge **Label:** • pod **Sample value:**	Saturation
flink_(job|task)manager_Status_JVM_Memory_NonHeap_Used The amount of non-heap memory currently used.	**Unit:** bytes **Type:** Gauge **Label:** • pod **Sample value:**	Saturation
flink_(job|task)manager_Status_JVM_Memory_Heap_Max The maximum amount of heap memory that can be used for memory management.	**Unit:** bytes **Type:** Gauge **Label:** • pod **Sample value:**	Saturation
flink_(job|task)manager_Status_JVM_Memory_Heap_Used The amount of heap memory currently used.	**Unit:** bytes **Type:** Gauge **Label:** • pod **Sample value:**	Saturation

Alerts

The alerts are based on Flink and Kubernetes cluster metrics.

The following alerts are defined for GSP.

Alert	Severity	Description	Based on	Threshold
GspFlinkJobDown	Critical	Triggered when the GSP Flink job is not running (number of running jobs equals to 0 or metric is not available)	flink_jobmanager_numRunningJobs	For 5 minutes
GspOOMKilled	Critical	Triggered when a GSP pod is restarted because of OOMKilled	kube_pod_container_status_restarts_total	0
GspNoTmRegistered	Critical	Triggered when there are no registered TaskManagers (or metric not available)	flink_jobmanager_numRegisteredTaskManagers	For 5 minutes
GspUnknownPerson	High	Triggered when GSP encounters unknown person(s)	flink_taskmanager_job_task_operator_tenant_error_tota	For 5 minutes