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> Workforce Management Administrator's Guide

Using WFM Prometheus metrics for monitoring & troubleshooting

To support additional resiliency and observability capabilities for (but not limited to) cloud based environment and deployment, the backend components of Genesys Workforce Management solution are modified to support Prometheus based metrics, available via http endpoints for engage on premise platform.

Use the below URL for WFM Prometheus based metrics: http://<server-host>:<port>/metrics

Where:

<server-host> - Host on which WFM backend component running (WFM Server, Builder, Data Aggregator or Daemon)

<port> - Port on which WFM backend component (WFM Server, Builder, Data Aggregator or Daemon)
accepting client requests. This <port> can either be the default server listening port or a dedicated
management port that need to be enabled with the management-port option:
management-port = <port>

For more information, see the the following URLS:

Prometheus models: https://prometheus.io/docs/concepts/data_model/ Prometheus supported metrics types: https://prometheus.io/docs/concepts/metric_types/ Grafana dashboards: https://prometheus.io/docs/visualization/grafana/ (WFM backend components now supports wide list of metrics which will be defined later in this chapter. These metrics can be called and used to build Grafana like dashboards for solution monitoring.)

Following tables describes all supported and available metrics that can be used to build dashboards, reports, alerts and gives you opportunity to monitor solution heath.

System

Name	Туре	Description	Labels
wfm_system_start_time	e_Geogads	Start time as epoch time, in seconds	[app_name, component, host, version]
wfm_system_uptime_se	c G and se	System uptime, in seconds	[component, host]
wfm_system_leader	Gauge	Leader indicator 0/1	[component, host]
wfm_system_cpu_count	Gauge	System CPU count	[component, host]
wfm_system_process_p	ri@ategebytes	Process private bytes	[component, host]
wfm_system_process_v	ir@aab_bytes	Process virtual bytes	[component, host]
wfm_system_process_c	p@atigne_ratio	Process CPU time %	[component, host]
wfm_system_total_cpu_	timegratio	Total system CPU time %	[component, host]
wfm_system_total_com	mûttege_bytes	Total system committed	[component, host]

Name	Туре	Description	Labels
		bytes	
wfm_system_total_com	mûteliyait	Total system memory limit, in bytes	[component, host]
wfm_system_total_phys	siGalugeemory_bytes	Total system physical memory, in bytes	[component, host]
wfm_system_total_virtu	alamemory_bytes	Total system virtual memory, in bytes	[component, host]
wfm_system_available_	pb͡ɣsijæl_memory_bytes	Available physical memory, in bytes	[component, host]
wfm_system_physical_r	n emogy_lo ad_ratio	Physical memory load %	[component, host]

Session

Name	Туре	Description	Labels
wfm_session_count	Gauge	Current session count labeled by the session scope, which can be 'agent', 'user', 'user agent' or 'system'	[component, host, scope]

Socket Connections

Name	Туре	Description	Labels
wfm_connection_total	Counter	Total connections	[component, host]
wfm_connection_refuse	ed <u>C</u> botaer	Refused connections	[component, host]
wfm_connection_open	Gauge	Open connections	[component, host]
wfm_connection_idle	Gauge	Idle connections	[component, host]
wfm_connection_queue	dGauge	Queued connections	[component, host, direction]
wfm_connection_thread	ls Gauge	Connection thread count	[component, host, direction]
wfm_connection_thread	d s <u>G</u> bingit	Connection thread count limit	[component, host, direction]

HTTP

Name	Туре	Description	Labels
wfm_http_request_tota	l Counter	Total requests	[component, host]
wfm_http_request_faile	d ⊆tota ler	Total failed requests	[component, host]
wfm_http_request_dura	atiost_csgreeonds	Successful requests duration, in seconds	[component, host]
wfm_http_request_faile	d∐ḋburgitaion_seconds	Failed requests duration, in seconds	[component, host]

Name	Туре	Description	Labels
wfm_http_request_late	n&yi_merconads	Successful requests latency over the rolling time window, in seconds	[component, host]
wfm_http_request_faile	dSlattenaxy_seconds	Failed requests latency over the rolling time window, in seconds	[component, host]
wfm_http_request_faile	ed <u>S</u> uatioary	Failed requests ratio over the rolling time window	[component, host]
wfm_http_request_rps	Summary	Requests per second (RPS) over the rolling time window	[component, host]
wfm_http_request_activ	ve Gauge	Active requests	[component, host, operation, uri]
wfm_http_request_read	Lintegseconds	Request read time, in seconds	[component, host, operation, uri]
wfm_http_request_read	l_ 6ytes er	Request read bytes	[component, host, operation, uri]
wfm_http_request_writ	e <u>Htimmæ</u> rsæconds	Request write time, in seconds	[component, host, operation, uri]
wfm_http_request_writ	e_døyiteter	Request written bytes	[component, host, operation, uri]
wfm_http_response_tot	a Counter	Total responses	[component, host, code, operation, error, uri]
wfm_http_response_tin	ne <u>H</u> iseconads	Response time, in seconds	[component, host, code, operation, error, uri]
wfm_http_response_lat	eຄືດງ <u>ກາ</u> ສອເອກds	Successful response latency over the rolling time window, in seconds	[component, host, code, operation, error, uri]
wfm_http_response_fai	lestulatemcy_seconds	Failed response latency over the rolling time window, in seconds	[component, host, code, operation, error, uri]

Task

Name	Туре	Description	Labels
wfm_task_total	Counter	Total tasks	[component, host, task]
wfm_task_refused_tota	l Counter	Total refused tasks	[component, host, task]
wfm_task_cancelled_to	taî ounter	Total cancelled tasks	[component, host, task]
wfm_task_failed_total	Counter	Total failed tasks	[component, host, task]
wfm_task_active	Gauge	Active tasks	[component, host, task]
wfm_task_active_max	Gauge	Maximum active tasks over the rolling time window	[component, host, task]
wfm_task_active_limit	Gauge	Active tasks limit	[component, host, task]

Name	Туре	Description	Labels
wfm_task_queued	Gauge	Queued tasks	[component, host, task]
wfm_task_queued_max	Gauge	Maximum queued tasks over the rolling time window	[component, host, task]
wfm_task_queued_limit	Gauge	Queued tasks limit	[component, host, task]
wfm_task_queued_time	_sièdog da m	Task time in the queue, in seconds	[component, host, task]
wfm_task_handle_time_	sleisborgta m	Task handle time, in seconds	[component, host, task]
wfm_task_duration_sec	ohidsogram	Task duration, in seconds	[component, host, task]
wfm_task_latency_seco	ndsmmary	Task latency over the rolling time window, in seconds	[component, host, task]
wfm_task_all_threads	Gauge	Task thread pool size	[component, host]
wfm_task_all_active	Gauge	Active tasks	[component, host]
wfm_task_all_active_ma	ixG auge	Maximum number of active tasks since last restart	[component, host]
wfm_task_all_active_lim	iGauge	Active task limit	[component, host]
wfm_task_all_queued	Gauge	Queued tasks	[component, host]
wfm_task_all_queued_m	na Beuge	Maximum number of queued tasks since last restart	[component, host]
wfm_task_all_queued_li	nGia uge	Queued task limit	[component, host]
wfm_task_all_throttled	Gauge	Throttled tasks	[component, host]
wfm_task_all_throttled_	ກົລນ ge	Maximum number of throttled tasks since last restart	[component, host]

Database

Name	Туре	Description	Labels
wfm_db_connection_to	ta £ounter	Total database connections	[component, host]
wfm_db_connection_fa	ileabutotteri	Total failed database connections	[component, host]
wfm_db_connections	Gauge	Current database connections	[component, host]
wfm_db_connection_tir	neliseggads	Time to establish database connection, in seconds	[component, host]
wfm_db_command_tota	al Counter	Total number of database commands	[component, host, task]

Name	Туре	Description	Labels
		executed	
wfm_db_command_faile	ed <u>c</u> tobałr	Total number of failed database commands	[component, host, task]
wfm_db_command_dura	atilioatosezoon ds	Database command duration, in seconds	[component, host, task]
wfm_db_fetch_total	Counter	Total number of database fetches	[component, host, task]
wfm_db_fetch_duration	sexogda n	Database fetch duration, in seconds	[component, host, task]
wfm_db_deadlock_tota	Counter	Total number of database deadlocks detected	[component, host, task]

Cache

Name	Туре	Description	Labels
wfm_cache_size_bytes	Gauge	Cache size, in bytes, labeled by cache type	[component, host, cache]
wfm_cache_hit_count	Counter	Cache hit count, labeled by cache type	[component, host, cache]
wfm_cache_miss_count	Counter	Cache miss count, labeled by cache type	[component, host, cache]
wfm_cache_hit_ratio	Summary	Cache hit ratio over the rolling time window	[component, host, cache]

Memory Allocations

Name	Туре	Description	Labels
wfm_alloc_objects	Gauge	Allocated object count, labeled by object type	[component, host, object]
wfm_alloc_object_size_	by farse	Object allocation size, in bytes, labeled by object type	[component, host, object]

ETL

Name	Туре	Description	Labels
wfm_etl_run_total	Counter	Total ETL runs	[component, host]
wfm_etl_run_failed_tota	alCounter	Total failed ETL runs	[component, host]
wfm_etl_run_cancelled_	tótai hter	Total cancelled ETL runs	[component, host]
wfm_etl_run_progress_	péra uge	Last ETL run progress %	[component, host]
wfm_etl_run_start_time	e_Secupeds	Last ETL run start time as epoch time, in	[component, host]

Name	Туре	Description	Labels
		seconds	
wfm_etl_run_end_time_	seconds	Last ETL run end time as epoch time, in seconds	[component, host]
wfm_etl_run_outcome	Gauge	Last ETL run outcome: 0 - complete, 1 - cancelled, 2 - failed	[component, host]
wfm_etl_record_total	Counter	Total ETL records transferred by subsystem: 'configuration', 'adherence', 'schedule', 'performance'	[component, host, subsystem]

Data Aggregator (DA)

Name	Туре	Description	Labels
wfm_da_writes_db_tota	l Counter	Total number of DA database record writes	[component, host, record_type]
wfm_da_writes_db_faile	d<u>C</u>boha er	Total number of failed DA database record writes	[component, host, record_type]
wfm_da_writes_db_retri	edb_ttotal	Total number of retried DA database record writes	[component, host, record_type]
wfm_da_writes_db_queu	ມ ຢ ່ຜ <u>ຼັງເຊັນ</u> ສະ	DA database record time in queue, in seconds	[component, host, record_type]
wfm_da_writes_db_write	e <u>Hiimograe</u>conds	DA database record write time, in seconds	[component, host, record_type]
wfm_da_writes_db_dura	tiibit_sjæænds	DA database record write duration, in seconds	[component, host, record_type]
wfm_da_writes_file_tota	Counter	Total number of DA dump file data writes	[component, host]
wfm_da_writes_file_faile	ed_tottæl	Total number of DA dump failed file data writes	[component, host]
wfm_da_writes_queue_s	sizeuge	DA database writer queue size	[component, host]
wfm_da_statserver_eve	ntottær	Total number of events received from StatServer, labeled by event type	[component, host, event]
wfm_da_statserver_erro	DCoobaer	Total number of errors received from StatServer, labeled by	[component, host, event]

Name	Туре	Description	Labels
		event type	

Builder

Name	Туре	Description	Labels
wfm_builder_job_total	Counter	Total schedule build jobs	[component, host]
wfm_builder_job_failed_	totah ter	Total failed schedule build jobs labeled by error type. Possible 'error' label values: 'internal', 'data', 'network', 'wfmserver', 'cfgserver', 'system'.	[component, host, error]
wfm_builder_job_cance	lled utotal	Total cancelled schedule build jobs	[component, host]
wfm_builder_job_active	Gauge	Active schedule build jobs	[component, host]
wfm_builder_job_active	_ Ganit je	Maximum allowed number of active concurrent schedule build jobs	[component, host]
wfm_builder_job_queue	d Gauge	Queued schedule build jobs	[component, host]
wfm_builder_job_readin	g Gauge	Schedule build jobs reading input data	[component, host]
wfm_builder_job_writin	g Gauge	Schedule build jobs saving the results	[component, host]
wfm_builder_job_queue	_tiiste_seconds	Schedule build jobs time in queue, in seconds	[component, host]
wfm_builder_job_queue	dSlantenacy	Job time in queue over the rolling time window, in seconds	[component, host]
wfm_builder_job_read_t	i miet <u>se</u> conds	Schedule build jobs reading input data time, in seconds	[component, host]
wfm_builder_job_build_	timet_speconds	Schedule build jobs scheduling time, in seconds	[component, host]
wfm_builder_job_write_	timize_spezionds	Schedule build results saving time, in seconds	[component, host]
wfm_builder_job_durati	ohistegands	Schedule build jobs duration, in seconds	[component, host]
wfm_builder_job_sites	Histogram	Schedule build site count	[component, host]
wfm_builder_job_agents	s Histogram	Schedule build agent count	[component, host]

Name	Туре	Description	Labels
wfm_builder_job_days	Histogram	Schedule build day count	[component, host]
wfm_builder_task_activ	e Gauge	Active scheduling tasks	[component, host]
wfm_builder_task_activ	elimje	Maximum allowed number of active concurrent scheduling tasks	[component, host]
wfm_builder_task_activ	eSratioary	Active task ratio (task_active / task_active_limit) over the rolling time window	[component, host]
wfm_builder_task_queu	ed auge	Queued scheduling tasks	[component, host]

Golden Metrics

Name	Туре	Description	Labels
golden_signals:traffic	Gauge	Traffic normalized in the range from 0 to 1	[component, host]
golden_signals:latency	Gauge	Latency normalized in the range from 0 to 1	[component, host]
golden_signals:errors	Gauge	Errors ratio	[component, host]
golden_signals:saturati	oChauge	Saturation normalized in the range from 0 to 1	[component, host]

Health

Name	Туре	Description	Labels
wfm_health_status	Gauge	Component health status: 0 - green, 1 - yellow, 2 - red includes component's dependencies and their health statuses	[component, host, dependency]