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Intelligent Workload Distribution Private Edition Guide

IWD metrics and alerts

Contents

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Find the metrics *No results* exposes and the alerts defined for *No results*.

Related documentation:

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Service	CRD or annotations?	Port	Endpoint/Selector	Metrics update interval
IWD	Both or either, depends on harvester	Default is 4024 (overridden by values)	/iwd/v3/metrics	15 sec recommended, depends on harvester

See details about:

- IWD metrics
- IWD alerts

Metrics

Metric and description	Metric details	Indicator of
iwd_redis_connections_established Current number of established Redis connections	Unit: Type: gauge Label: Sample value: 0	
iwd_redis_connections_reconnecting Current number of reconnecting Redis connections	Unit: Type: gauge Label: Sample value: 0	
iwd_redis_connections_ready Current number of ready Redis connections	Unit: Type: gauge Label: Sample value: 1	
iwd_redis_duration_until_ready Duration until ready state reached	Unit: Type: histogram Label: 'le' Sample value: 0, 1, 39	
iwd_redis_errors_total	Unit:	

Metric and description	Metric details	Indicator of
Total number of Redis connection errors	Type: counter Label: Sample value: 0	
iwdTenantDB_db_connect_total The total number of all database connection requests	Unit: Type: counter Label: 'db' Sample value: 1252424, 1457770	
iwdTenantDB_db_disconnect_total The total number of all database disconnection requests	Unit: Type: counter Label: 'db' Sample value: 1252424, 1457770	
iwdTenantDB_db_request_total The total number of all Database requests sent	Unit: Type: counter Label: 'db' Sample value: 4850730, 5056452	
iwdTenantDB_db_success_total The total number of all all Database requests executed successfully	Unit: Type: counter Label: 'db', 'command' Sample value: 2307896, 2126805, 1221394, 1450355	
iwdTenantDB_db_errors_total The total number of all Database errors	Unit: Type: counter Label: 'db', 'code' Sample value: 131, 5, 4	
iwdTenantDB_db_request_duration_milliseconds Database transaction duration	Unit: Type: histogram Label: 'le', 'db', 'method' Sample value: 2290844, 2306385, 2307241, 2307894	
iwd_process_cpu_user_seconds_total Total user CPU time spent in seconds.	Unit: Type: counter Label: Sample value: 1634045655571	
iwd_process_cpu_system_seconds_total Total system CPU time spent in seconds.	Unit: Type: counter Label: Sample value: 1634045655571	
iwd_process_cpu_seconds_total Total user and system CPU time spent in seconds.	Unit: Type: counter Label: Sample value: 1634045655571	
iwd_process_start_time_seconds	Unit:	

Metric and description	Metric details	Indicator of
Start time of the process since unix epoch in seconds.	Type: gauge Label: Sample value: 1633992102	
iwd_process_resident_memory_bytes Resident memory size in bytes.	Unit: Type: gauge Label: Sample value: 1634045655572	
iwd_process_virtual_memory_bytes Virtual memory size in bytes.	Unit: Type: gauge Label: Sample value: 1634045655572	
iwd_process_heap_bytes Process heap size in bytes.	Unit: Type: gauge Label: Sample value: 1634045655572	
iwd_process_open_fds Number of open file descriptors.	Unit: Type: gauge Label: Sample value: 1634045655572	
iwd_process_max_fds Maximum number of open file descriptors.	Unit: Type: gauge Label: Sample value: 197176	
iwd_nodejs_eventloop_lag_seconds Lag of event loop in seconds.	Unit: Type: gauge Label: Sample value: 1634045655572	
iwd_nodejs_active_handles Number of active libuv handles grouped by handle type. Every handle type is C++ class name.	Unit: Type: gauge Label: 'type' Sample value: 17, 1, 69	
iwd_nodejs_active_handles_total Total number of active handles.	Unit: Type: gauge Label: Sample value: 1634045655572	
iwd_nodejs_active_requests Number of active libuv requests grouped by request type. Every request type is C++ class name.	Unit: Type: gauge Label: 'type' Sample value: 2	
iwd_nodejs_active_requests_total	Unit:	

Metric and description	Metric details	Indicator of
Total number of active requests.	Type: gauge Label: Sample value: 1634045655572	
iw_d_nodejs_heap_size_total_bytes Process heap size from node.js in bytes.	Unit: Type: gauge Label: Sample value: 1634045655572	
iw_d_nodejs_heap_size_used_bytes Process heap size used from node.js in bytes.	Unit: Type: gauge Label: Sample value: 1634045655572	
iw_d_nodejs_external_memory_bytes Nodejs external memory size in bytes.	Unit: Type: gauge Label: Sample value: 1634045655572	
iw_d_nodejs_heap_space_size_total_bytes Process heap space size total from node.js in bytes.	Unit: Type: gauge Label: 'space' Sample value: 262144, 16777216, 130428928, 6721536	
iw_d_nodejs_heap_space_size_used_bytes Process heap space size used from node.js in bytes.	Unit: Type: gauge Label: 'space' Sample value: 32808, 1479672, 92634792, 4852384	
iw_d_nodejs_heap_space_size_available_bytes Process heap space size available from node.js in bytes.	Unit: Type: gauge Label: 'space' Sample value: 0, 6899976, 37040456, 1542496	
iw_d_nodejs_version_info Node.js version info.	Unit: Type: gauge Label: 'version', 'major', 'minor', 'patch' Sample value: 1	
iw_d_request_total The total number of all API requests received	Unit: Type: counter Label: Sample value: 177186	
iw_d_success_total The total number of all API requests with success response	Unit: Type: counter Label: 'ccid' Sample value: 21400, 46769, 48539	

Metric and description	Metric details	Indicator of
ibd_errors_total The total number of all API requests with error response	Unit: Type: counter Label: 'ccid' Sample value: 438, 49, 4	
ibd_client_error_total The total number of all API requests with client error response	Unit: Type: counter Label: 'ccid' Sample value: 204, 49, 2	
ibd_server_error_total The total number of all API requests with server error response	Unit: Type: counter Label: 'ccid' Sample value: 234, 2	
ibd_api_request_total The total number of all API requests	Unit: Type: counter Label: 'method', 'path', 'code', 'ccid' Sample value: 3570, 3584, 25079, 19500	
ibd_api_request_long Number of API requests that took long time to execute	Unit: Type: counter Label: Sample value:	
ibd_api_request_closed Number of API requests that expired before response was sent	Unit: Type: counter Label: 'method', 'path' Sample value: 3, 14, 4, 9	
ibd_api_request_duration_milliseconds API requests duration	Unit: Type: histogram Label: 'le', 'method', 'path', 'code', 'ccid' Sample value: 6, 2708, 3502, 3570	
ibd_api_blacklist Total number of blacklisted requests	Unit: Type: counter Label: Sample value:	
ibd_cometd_connections_total The current number of client cometd connections to GWS	Unit: Type: gauge Label: 'type', 'ccid' Sample value: 27, 1, 41	
ibd_cometd_errors_total The total number of client cometd errors	Unit: Type: counter Label: 'type', 'ccid' Sample value: 1	
ibd_cometd_request_errors_total	Unit:	

Metric and description	Metric details	Indicator of
The total number of client cometd error response from GWS	Type: counter Label: 'type', 'name', 'ccid', 'domain' Sample value: 13026, 64, 1, 102	
iw_d_cometd_request_current The current number of client cometd requests to GWS	Unit: Type: gauge Label: 'type', 'name', 'ccid', 'domain' Sample value: -6318, -11825, 0	
iw_d_cometd_request_duration_milliseconds The cometd request duration (to GWS)	Unit: Type: histogram Label: 'le', 'type', 'name', 'ccid', 'domain' Sample value: 6298, 6320, 6345, 6395	
iw_d_cometd_request_duration_milliseconds_summary The cometd request duration (to GWS): summary	Unit: Type: summary Label: 'quantile', 'type', 'name', 'ccid', 'domain' Sample value: 0, 930700, 6577, 89959	
iw_d_cometd_events_total The total number of client cometd events from GWS	Unit: Type: counter Label: 'type', 'name', 'ccid', 'domain' Sample value: 80, 443, 346, 17	

Alerts

The following alerts are defined for IWD.

Alert	Severity	Description	Based on	Threshold
IWD error rate	CRITICAL	Triggered when the number of errors in IWD exceeds the threshold for 15 min period.		Default number of errors: 2
IWD DB errors	CRITICAL	Triggered when IWD experiences more than 2 errors within 1 minute during operations with database.		Default number of errors: 2
Memory usage is above 3000 Mb	CRITICAL	Triggered when the pod memory usage is above 3000 MB.		Default memory usage: 3000 MB
Database connections above	HIGH	Triggered when pod database		Default number of connections: 75

Alert	Severity	Description	Based on	Threshold
75		connections number is above 75.		