



builds for Red Hat OpenShift 1.0

Observability

Build controller observability

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Abstract

This document provides information about build controller observability.

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CHAPTER 1. BUILD CONTROLLER OBSERVABILITY

Builds exposes several metrics to help you monitor the performance and functioning of your build resources. The build controller metrics are exposed on the port **8383**.

1.1. BUILD CONTROLLER METRICS

You can check the following build controller metrics for monitoring purposes:

Table 1.1. Build controller metrics

| Name | Type | Description | Labels | Status |
|--|-----------|--|--|--------------|
| build_builds_registered_total | Counter | The number of total registered builds. | <ul style="list-style-type: none"> • buildstrategy= <build_buildstrategy_name> • namespace= <buildrun_namespace> • build= <build_name> | experimental |
| build_buildruns_completed_total | Counter | The number of total completed build runs. | <ul style="list-style-type: none"> • buildstrategy= <build_buildstrategy_name> • namespace= <buildrun_namespace> • build= <build_name> • buildrun= <buildrun_name> | experimental |
| build_buildrun_establish_duration_seconds | Histogram | The build run establish duration in seconds. | <ul style="list-style-type: none"> • buildstrategy= <build_buildstrategy_name> • namespace= <buildrun_namespace> • build= <build_name> • buildrun= <buildrun_name> | experimental |

| Name | Type | Description | Labels | Status |
|---|-----------|---|--|--------------|
| build_buildrun_completion_duration_seconds | Histogram | The build run completion duration in seconds. | <ul style="list-style-type: none"> ● buildstrategy= <build_buildstrategy_name> ● namespace= <buildrun_namespace> ● build= <build_name> ● buildrun= <buildrun_name> | experimental |
| build_buildrun_rampup_duration_seconds | Histogram | The build run ramp-up duration in seconds. | <ul style="list-style-type: none"> ● buildstrategy= <build_buildstrategy_name> ● namespace= <buildrun_namespace> ● build= <build_name> ● buildrun= <buildrun_name> | experimental |
| build_buildrun_taskrun_rampup_duration_seconds | Histogram | The build run ramp-up duration for a task run in seconds. | <ul style="list-style-type: none"> ● buildstrategy= <build_buildstrategy_name> ● namespace= <buildrun_namespace> ● build= <build_name> ● buildrun= <buildrun_name> | experimental |

| Name | Type | Description | Labels | Status |
|---|-----------|---|--|--------------|
| build_buildrun_taskrun_pod_rampup_duration_seconds | Histogram | The build run ramp-up duration for a task run pod in seconds. | <ul style="list-style-type: none"> • buildstrategy= <build_buildstrategy_name> • namespace= <buildrun_namespace> • build= <build_name> • buildrun= <buildrun_name> | experimental |

1.1.1. Histogram metrics

To use custom buckets for the build controller, you must set the environment variable for a particular histogram metric. The following table shows the environment variables for all histogram metrics:

Table 1.2. Histogram metrics

| Metric | Environment variable | Default |
|---|---|--|
| build_buildrun_establish_duration_seconds | PROMETHEUS_BR_EST_DUR_BUCKETS | 0,1,2,3,5,7,10,15,20,30 |
| build_buildrun_completion_duration_seconds | PROMETHEUS_BR_COMP_DUR_BUCKETS | 50,100,150,200,250,300,350,400,450,500 |
| build_buildrun_rampup_duration_seconds | PROMETHEUS_BR_RAMPUP_DUR_BUCKETS | 0,1,2,3,4,5,6,7,8,9,10 |
| build_buildrun_taskrun_rampup_duration_seconds | PROMETHEUS_BR_RAMPUP_DUR_BUCKETS | 0,1,2,3,4,5,6,7,8,9,10 |
| build_buildrun_taskrun_pod_rampup_duration_seconds | PROMETHEUS_BR_RAMPUP_DUR_BUCKETS | 0,1,2,3,4,5,6,7,8,9,10 |