

## Arvados - Story #15835

### Document Prometheus metrics available from Arvados

11/18/2019 07:35 PM - Peter Amstutz

<b>Status:</b>	Resolved	<b>Start date:</b>	02/07/2020
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>	Tom Clegg	<b>% Done:</b>	100%
<b>Category:</b>	Documentation	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2020-02-12 Sprint		
<b>Description</b>			
<b>Subtasks:</b>			
Task # 15980: Review 15835-metrics-docs			<b>Resolved</b>

#### Associated revisions

##### Revision b01c4372 - 02/10/2020 06:03 PM - Tom Clegg

Merge branch '15835-metrics-docs'

closes #15835

Arvados-DCO-1.1-Signed-off-by: Tom Clegg <[tom@tomclegg.ca](mailto:tom@tomclegg.ca)>

#### History

##### #1 - 12/31/2019 11:25 PM - Peter Amstutz

- Target version changed from To Be Groomed to 2020-01-15 Sprint
- Category set to Documentation

##### #2 - 01/02/2020 04:22 PM - Peter Amstutz

- Assigned To set to Ward Vandewege

##### #3 - 01/03/2020 05:57 PM - Tom Clegg

Current docs: <https://doc.arvados.org/master/admin/metrics.html>

##### #4 - 01/15/2020 03:50 PM - Peter Amstutz

- Target version changed from 2020-01-15 Sprint to 2020-01-29 Sprint

##### #5 - 01/29/2020 04:48 PM - Peter Amstutz

- Target version changed from 2020-01-29 Sprint to 2020-02-12 Sprint

##### #6 - 01/29/2020 04:50 PM - Peter Amstutz

- Subject changed from [docs] Document Prometheus metrics available from Arvados to Document Prometheus metrics available from Arvados

##### #7 - 01/29/2020 04:56 PM - Tom Clegg

- Assigned To changed from Ward Vandewege to Tom Clegg

##### #8 - 02/07/2020 09:12 PM - Tom Clegg

- File admin-metrics-af1a79779.png added

15835-metrics-docs @ [af1a79779dad6f9b01fd9deb2197ece416c014ec](#)

# Metrics

Some Arvados services publish Prometheus/OpenMetrics-compatible metrics at `/metrics`. Metrics can help you understand how components perform under load, find performance bottlenecks, and detect and diagnose problems.

To access metrics endpoints, services must be configured with a [management token](#). When accessing a metrics endpoint, prefix the management token with `"Bearer "` and supply it in the `Authorization` request header.

```
curl -sfH "Authorization: Bearer your_management_token_goes_here" "https://0.0.0.0:25107/metrics"
```

The plain text export format includes "help" messages with a description of each reported metric.

When configuring Prometheus, use a `bearer_token` or `bearer_token_file` option to authenticate requests.

```
scrape_configs:  
  - job_name: keepstore  
    bearer_token: your_management_token_goes_here  
    static_configs:  
      - targets:  
        - "keep0.ClusterID.example.com:25107"
```

Component	Metrics endpoint
arvados-api-server	
arvados-controller	✓
arvados-dispatch-cloud	✓
arvados-git-httpd	
arvados-node-manager	
arvados-ws	
composer	
keepproxy	
keepstore	✓
keep-balance	✓
keep-web	✓
sso-provider	
workbench1	
workbench2	

## Node manager

The node manager does not export prometheus-style metrics, but its `/status.json` endpoint provides a snapshot of internal status at the time of the most recent wishlist update.

```
curl -sfH "Authorization: Bearer your_management_token_goes_here" "http://0.0.0.0:8989/status.json"
```

Attribute	Type	Description
nodes_booting	int	Number of nodes in booting state
nodes_unpaired	int	Number of nodes in unpaired state
nodes_busy	int	Number of nodes in busy state

**#9 - 02/07/2020 09:13 PM - Tom Clegg**

- Status changed from New to In Progress

**#10 - 02/10/2020 03:10 PM - Peter Amstutz**

LGTM

**#11 - 02/10/2020 06:41 PM - Anonymous**

- Status changed from In Progress to Resolved

Applied in changeset [arvados|b01c4372354d84bbc712d2793b07a8d5d5276b98](#).

**#12 - 02/10/2020 09:30 PM - Peter Amstutz**

- Release set to 22

## Files

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admin-metrics-af1a79779.png	136 KB	02/07/2020	Tom Clegg
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