

## Release H: Minio Metrics

- Introduction
  - Prometheus
  - InfluxDB
- Links

# Introduction

Minio metrics can be collected and displayed in a number of different ways.

## Prometheus

Minio can be setup to work with Prometheus by adding the following environment variables to your minio deployment

## Minio ENV

```
- name: MINIO_PROMETHEUS_AUTH_TYPE
  value: public
- name: MINIO_PROMETHEUS_URL
  value: http://prometheus.istio-system:9090
- name: MINIO_PROMETHEUS_JOB_ID
  value: minio-job
```

Setting MINIO\_PROMETHEUS\_AUTH\_TYPE to 'public' means you can scrape these metrics without the need for a token in your scrape config.

You then need to setup a new job in Prometheus to scrape the Minio metric endpoint.

```
- job_name: minio-job
metrics_path: /minio/v2/metrics/cluster
scheme: http
static_configs:
- targets: ['minio.default:9000']
```

The job\_name should match the MINIO\_PROMETHEUS\_JOB\_ID from the previous step.

The metrics will now be available in Prometheus.

Prometheus Alerts Graph Status Help Classic UI

☐ Use local time
 ☐ Enable query history
 ☒ Enable autocomplete
 ☐ Use experimental editor
 ☒ Enable highlighting
 ☒ Enable linter

Table

Graph

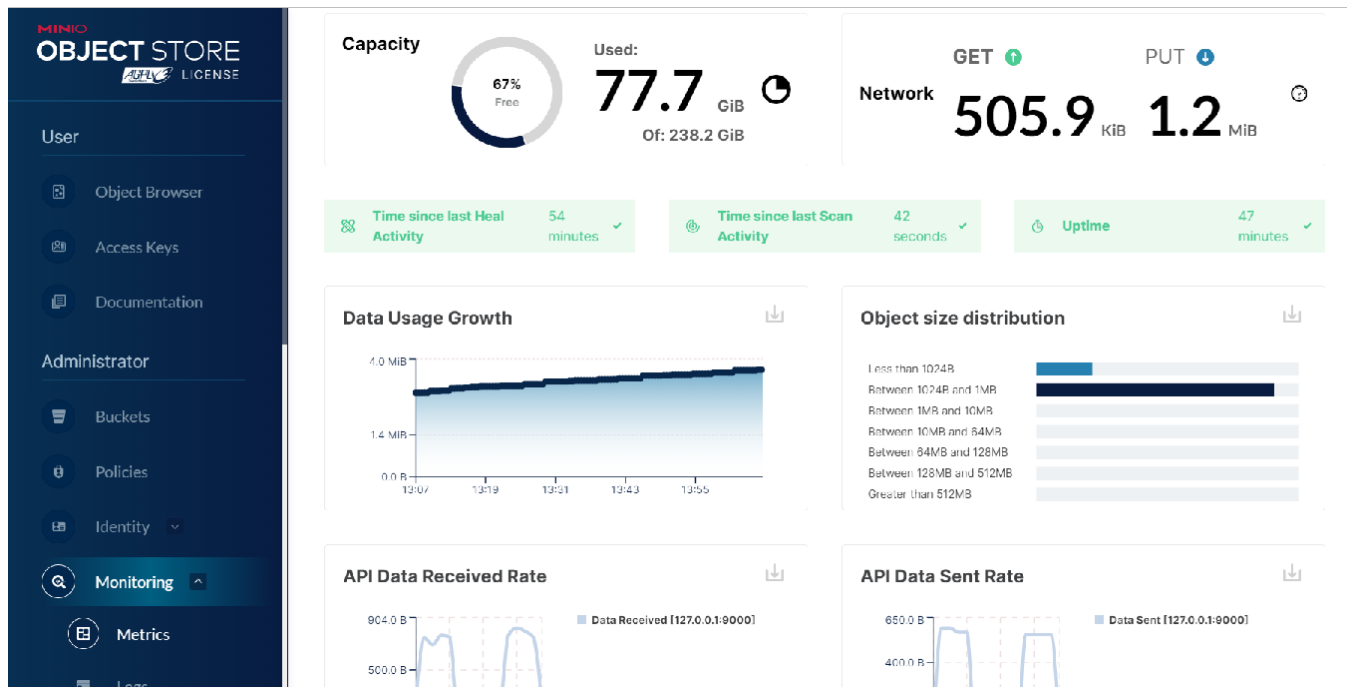
<

Evaluation time

>

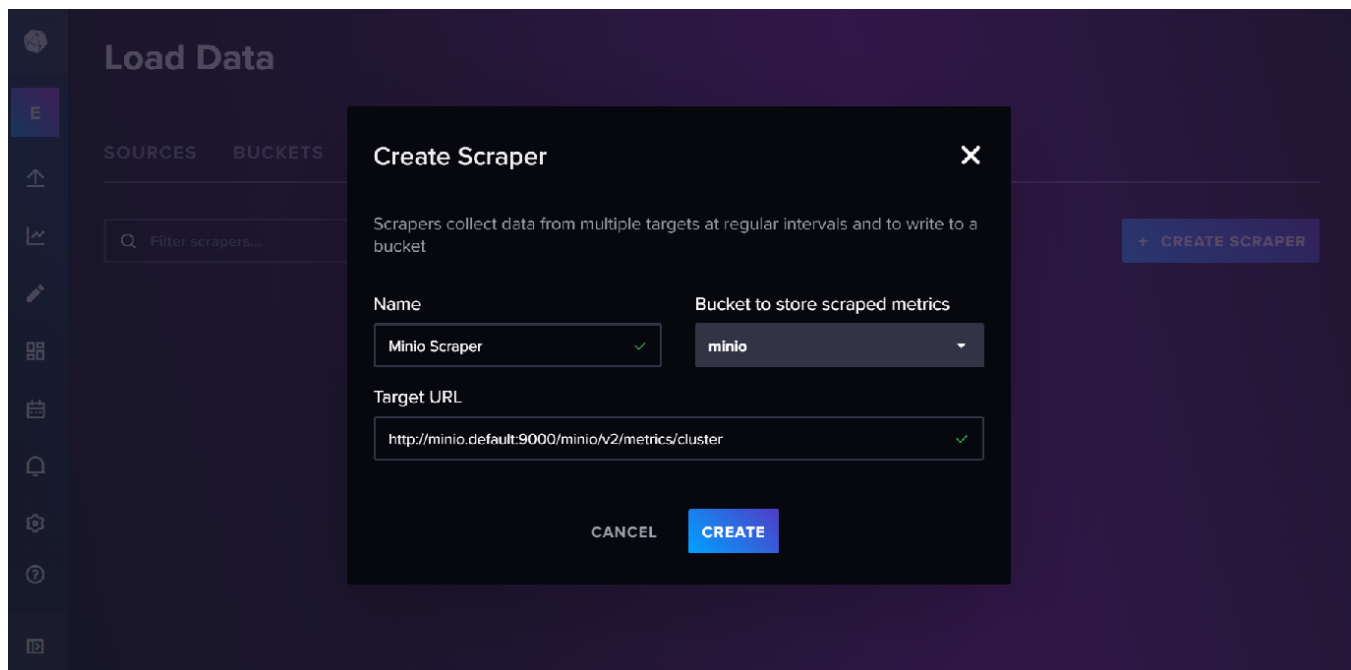
minio_audit_failed_messages{instance="minio.default:9000", job="minio-job", server="127.0.0.1:9000", target_id="sys_console_0"}	0
minio_audit_target_queue_length{instance="minio.default:9000", job="minio-job", server="127.0.0.1:9000", target_id="sys_console_0"}	0
minio_audit_total_messages{instance="minio.default:9000", job="minio-job", server="127.0.0.1:9000", target_id="sys_console_0"}	1
minio_bucket_objects_size_distribution{bucket="admin", instance="minio.default:9000", job="minio-job", range="BETWEEN_10_14_MB", server="127.0.0.1:9000"}	0
minio_bucket_objects_size_distribution{bucket="admin", instance="minio.default:9000", job="minio-job", range="BETWEEN_10_MB_AND_64_MB", server="127.0.0.1:9000"}	0
minio_bucket_objects_size_distribution{bucket="admin", instance="minio.default:9000", job="minio-job", range="BETWEEN_128_MB_AND_512_MB", server="127.0.0.1:9000"}	0
minio_bucket_objects_size_distribution{bucket="admin", instance="minio.default:9000", job="minio-job", range="BETWEEN_1_MB_AND_10_MB", server="127.0.0.1:9000"}	0
minio_bucket_objects_size_distribution{bucket="admin", instance="minio.default:9000", job="minio-job", range="BETWEEN_64_MB_AND_128_MB", server="127.0.0.1:9000"}	0
minio_bucket_objects_size_distribution{bucket="admin", instance="minio.default:9000", job="minio-job", range="GREATER_THAN_12_MB", server="127.0.0.1:9000"}	0
minio_bucket_objects_size_distribution{bucket="admin", instance="minio.default:9000", job="minio-job", range="LESS_THAN_1024_B", server="127.0.0.1:9000"}	0
minio_bucket_objects_size_distribution{bucket="camel", instance="minio.default:9000", job="minio-job", range="BETWEEN_1024_B_AND_1_MB", server="127.0.0.1:9000"}	0
minio_bucket_objects_size_distribution{bucket="camel", instance="minio.default:9000", job="minio-job", range="BETWEEN_10_MB_AND_64_MB", server="127.0.0.1:9000"}	0

The metrics are also available in the minio console:

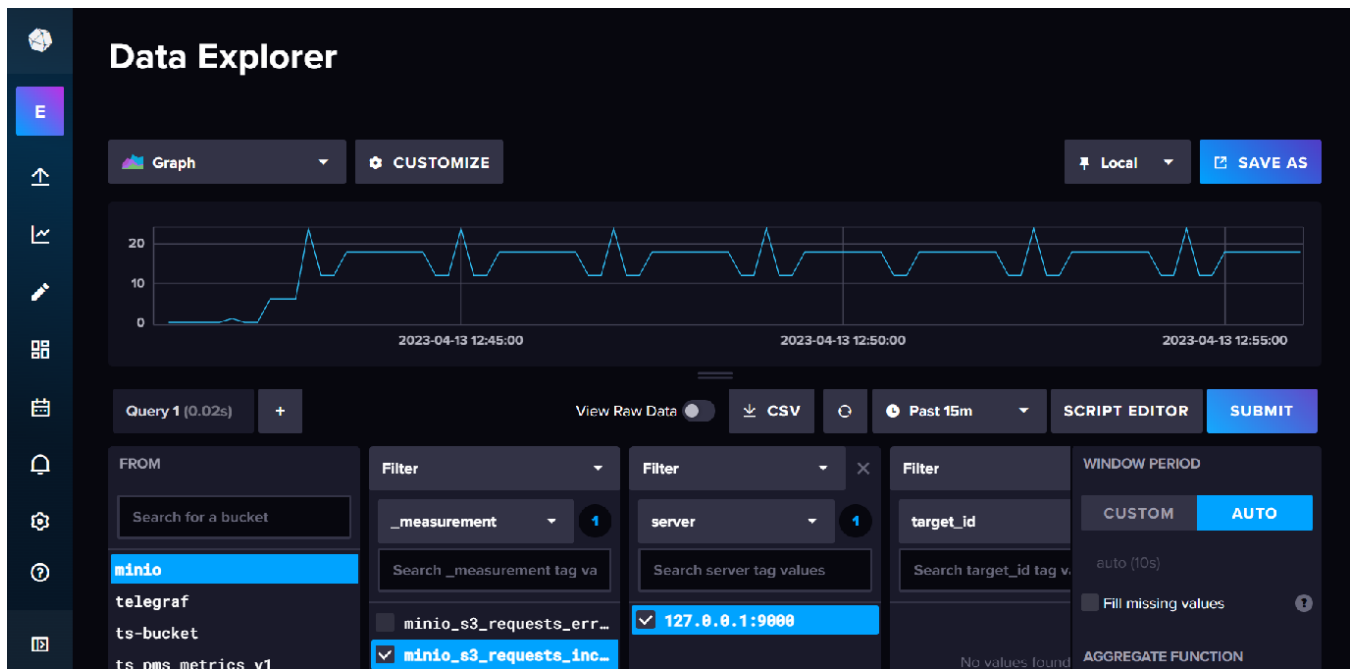


## InfluxDB

These metrics can also be made available in InfluxDB by setting up a metrics scraper and a bucket to store the metrics.



The metrics can then be viewed in data explorer



## Links

[Monitoring and Alerting using Prometheus](#)

[How to monitor MinIO server with Prometheus](#)

[Monitoring and Alerting using InfluxDB](#)

[Create an InfluxDB scraper](#)

[Prometheus data format](#)