

# MongoDB Integrations

## Introduction

This integration is used to fetch logs and metrics from MongoDB.

## Assumptions

The procedures described in Section 3 assumes that a Log Collector has already been setup.

### Compatibility

The log dataset is tested with logs from versions v3.2.11 and v4.4.4 in plaintext and json formats. The collstats, dbstats, metrics, replstatus and status datasets are tested with MongoDB 3.4 and 3.0 and are expected to work with all versions  $\geq 2.8$ .

## Requirements

### MongoDB Privileges

In order to use the metrics datasets, the MongoDB user specified in the package configuration needs to have certain privileges.

We recommend using the clusterMonitor role to cover all the necessary privileges.

You can use the following command in Mongo shell to create the privileged user (make sure you are using the admin db by using db command in Mongo shell).

```
db.createUser(  
  
  {  
  
    user: "beats",
```

```
    pwd: "pass",  
  
    roles: ["clusterMonitor"]  
  
  }  
  
)
```

You can use the following command in Mongo shell to grant the role to an existing user (make sure you are using the admin db by using db command in Mongo shell).

```
db.grantRolesToUser("user", ["clusterMonitor"])
```

## Logs

### log

The log dataset collects the MongoDB logs.

## Metrics

### collstats

The **collstats** dataset uses the top administrative command to return usage statistics for each collection. It provides the amount of time, in microseconds, used and a count of operations for the following types: total, readLock, writeLock, queries, getmore, insert, update, remove, and commands.

It requires the following privileges, which is covered by the clusterMonitor role:

- top action on cluster resource

### dbstats

The **dbstats** dataset collects storage statistics for a given database.

It requires the following privileges, which is covered by the clusterMonitor role:

- listDatabases

action on cluster resource

- for each of the databases, also need dbStats

action on the database resource

## **metrics**

It requires the following privileges, which is covered by the clusterMonitor role:

- serverStatus

action on cluster resource

## **replstatus**

The **replstatus** dataset collects status of the replica set. It requires the following privileges, which is covered by the clusterMonitor role:

- find/listCollections action on the local database resource
- collStats action on the local.oplog.rs collection resource
- replSetGetStatus action on cluster resource

## **status**

The status returns a document that provides an overview of the database's state.

It requires the following privileges, which is covered by the clusterMonitor role:

- serverStatus

action on cluster resource

# **MongoDB Integration Procedures**

Please provide the following information to CyTech:

## **Collect MongoDB application logs**

- Paths

## **Collect MongoDB metrics**

- Hosts

Ex: localhost:27017

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Revision #2

Created 23 April 2024 13:53:43

Updated 19 June 2024 06:54:01