



Purpose

This document describes how to monitor MongoDB Databases with Nagios XI in order to monitor the number of collections and/or objects in the database, as well as size of the database. The information you collect by monitoring your MongoDB Database will help you determine when documents are written into the database or if the size of the database is getting too large.

Target Audience

This document is intended for Nagios Administrators who want to monitor their MongoDB Databases with Nagios XI.

Prerequisites

It is assumed that your MongoDB Server has authentication enabled. If you have questions as to how to do this, please refer to the link below:

Enable Authentication on MongoDB Server

<https://docs.mongodb.com/manual/tutorial/enable-authentication/>

You are required to have a user in the **admin** database that has the role of **clusterAdmin**. This role is required by MongoDB to access statistics on the MongoDB server. You can reference the link below for information about creating users for a MongoDB:

Add a User to the MongoDB Server

<https://docs.mongodb.com/manual/tutorial/manage-users-and-roles/>

You will also be required to allow remote connections to your MongoDB server:

- bindIp
 - <https://docs.mongodb.com/manual/reference/configuration-options/#net-options>

- Firewall Rules:
 - <https://docs.mongodb.com/v3.0/tutorial/configure-linux-iptables-firewall/>
 - <https://docs.mongodb.com/v3.0/tutorial/configure-windows-netsh-firewall/>

Running The Configuration Wizard

The **MongoDB Database** configuration wizard will be used to set up the service checks for your MongoDB database. In the Nagios XI menu navigate to **Configure > Configuration Wizards** and click the **MongoDB Database** wizard. In the following screenshot you can see how the search field allows you to quickly find a wizard.

The screenshot shows the Nagios XI interface. The top navigation bar includes 'Home', 'Views', 'Dashboards', 'Reports', 'Configure' (circled in blue), 'Tools', 'Help', and 'Admin'. The left sidebar has 'Configure' expanded, with 'Configuration Wizards' circled in blue. The main content area is titled 'Configuration Wizards - Select a Wizard'. Below the title is a search bar with 'MongoDB' entered. Two wizard cards are shown: 'MongoDB Database' (highlighted with a blue box) and 'MongoDB Server'.

On Step 1 you will be required to provide the address of your MongoDB server in the **Address** field. Change the default port if required.

Enter the **Username** and **Password** of the account that has **clusterAdmin** access.

You need to enter the database you would like to monitor in the **Database** field.

DB Configuration Wizard: MongoDB Database - Step 1

MongoDB Information

Specify the details for connecting to the MongoDB database you want to monitor.

Address:
The IP address or FQDNS name of the MongoDB server.

Port:
The port to use to connect to the MongoDB server. This defaults to port 27017, however if you changed the port number enter it here.

Username:
The username used to connect to the database.

Password:
The password for the above user.

Database:
The database you want to monitor.

Click the **Next** button to proceed to step 2.

Step 2 is where you define the monitoring options.

In the first section make sure the **Host Name** field is correct, this is the name the host will be given in Nagios XI.

The MongoDB Database Metrics section allows you to select which metrics to monitor on your MongoDB Database.

Select the checks you wish to perform and what the warning and critical values will be for each one.

Once you've selected the checks you want to monitor, click **Next** to continue.

Complete the wizard by choosing the required options in Step 3 – Step 5 and then click on **Finish** in the final step of the wizard.

Once the wizard applies the configuration, click the **View status details for your MongoDB server** link to see the new host and services that were created.

DB
Configuration Wizard: MongoDB Database - Step 2
⚙

MongoDB Information

Address:

Host Name:

The name you'd like to have associated with this MongoDB Database.

Port:

Username:

Database:

MongoDB Database Metrics

Specify the metrics you'd like to monitor on the MongoDB database.

Number of Collections
Monitor the number of collections in the database.

Number of Objects
Monitor the number of objects (documents) in the database.

Database Size
Monitor the size of the database in bytes.
 b b

Here you can see the services created from running the wizard:

Host	Service	Status	Duration	Attempt	Last Check	Status Information
mongo01	MongoDB Database Collections	Ok	2m 51s	1/5	2017-02-17 14:35:53	OK - Collections: 1, Database: test
	MongoDB Database Objects	Ok	2m 48s	1/5	2017-02-17 14:35:56	OK - Connection took 0 seconds
	MongoDB Database Size	Ok	2m 46s	1/5	2017-02-17 14:35:58	OK - Database size: 0 MB, Database: test

Finishing Up

This completes the documentation on how to monitor a MongoDB database in Nagios XI.

If you have additional questions or other support related questions, please visit us at our Nagios Support Forums:

<https://support.nagios.com/forum>

The Nagios Support Knowledgebase is also a great support resource:

<https://support.nagios.com/kb>