

Monitoring



Nuri Halperin

@nurih | www.plusnconsulting.com

Planned



Actual



The Log File



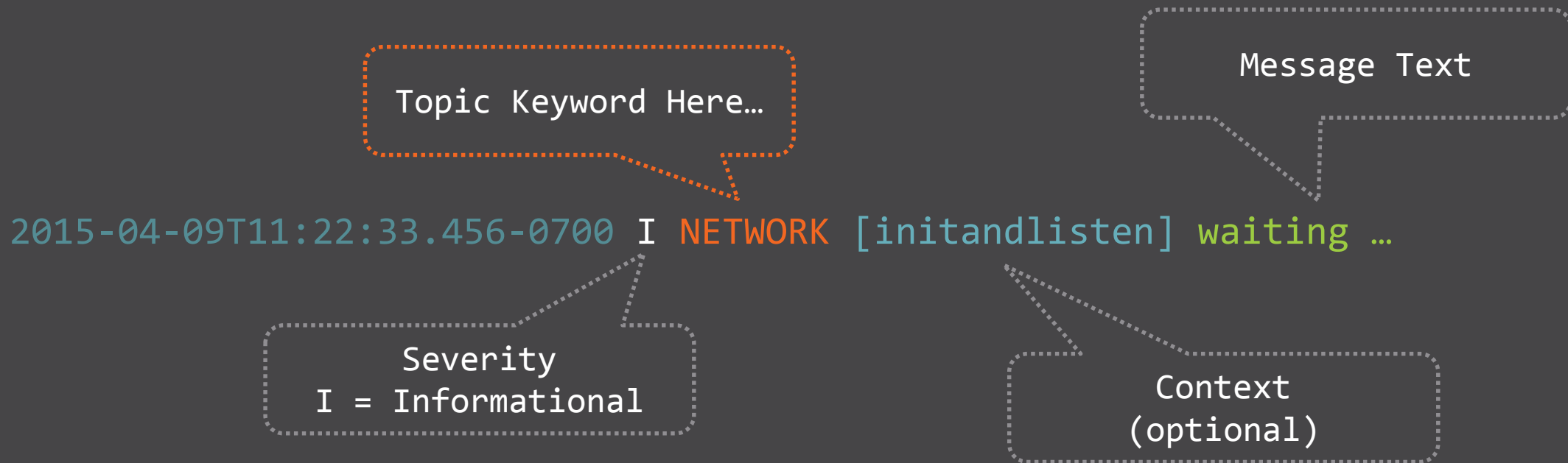
mongod.log

Logging Features

Topic line markers

Verbosity Levels

Verbosity Per Topic



mongod log file line

<timestamp> <severity> <component> [<context>] <message>

```
db.setLogLevel( 0, 'query' )
```

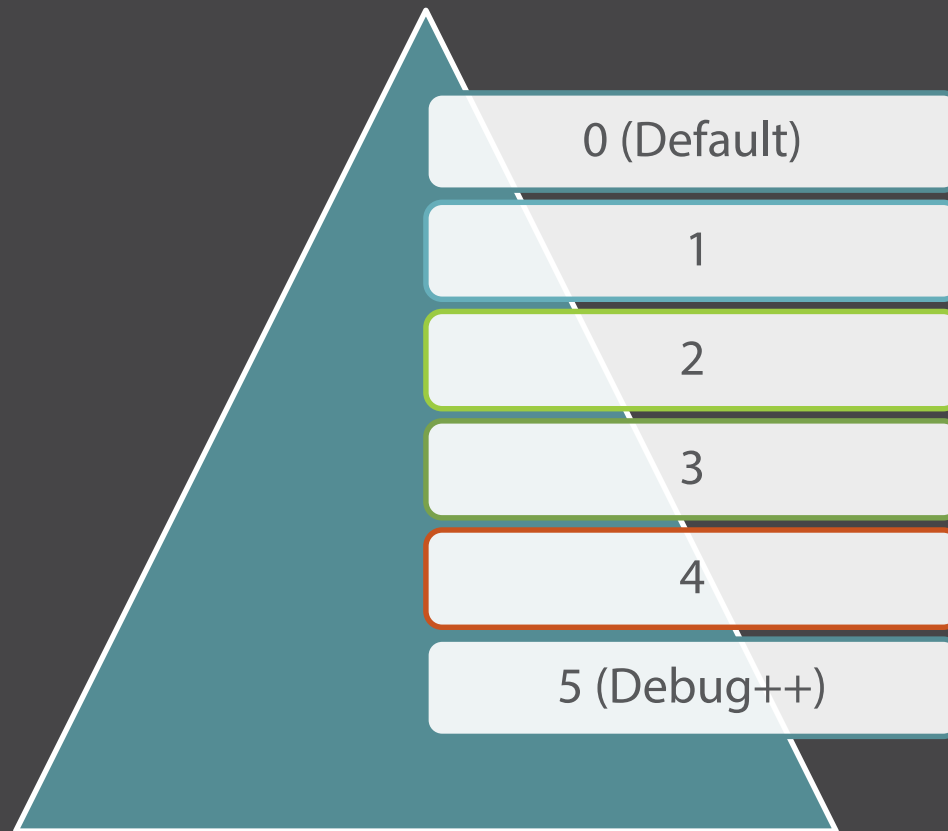
Verbosity

'accessControl'
'command'
'control'
'geo'
'index'
'network'
'query'
'replication'
'storage'
'journal'
'write'

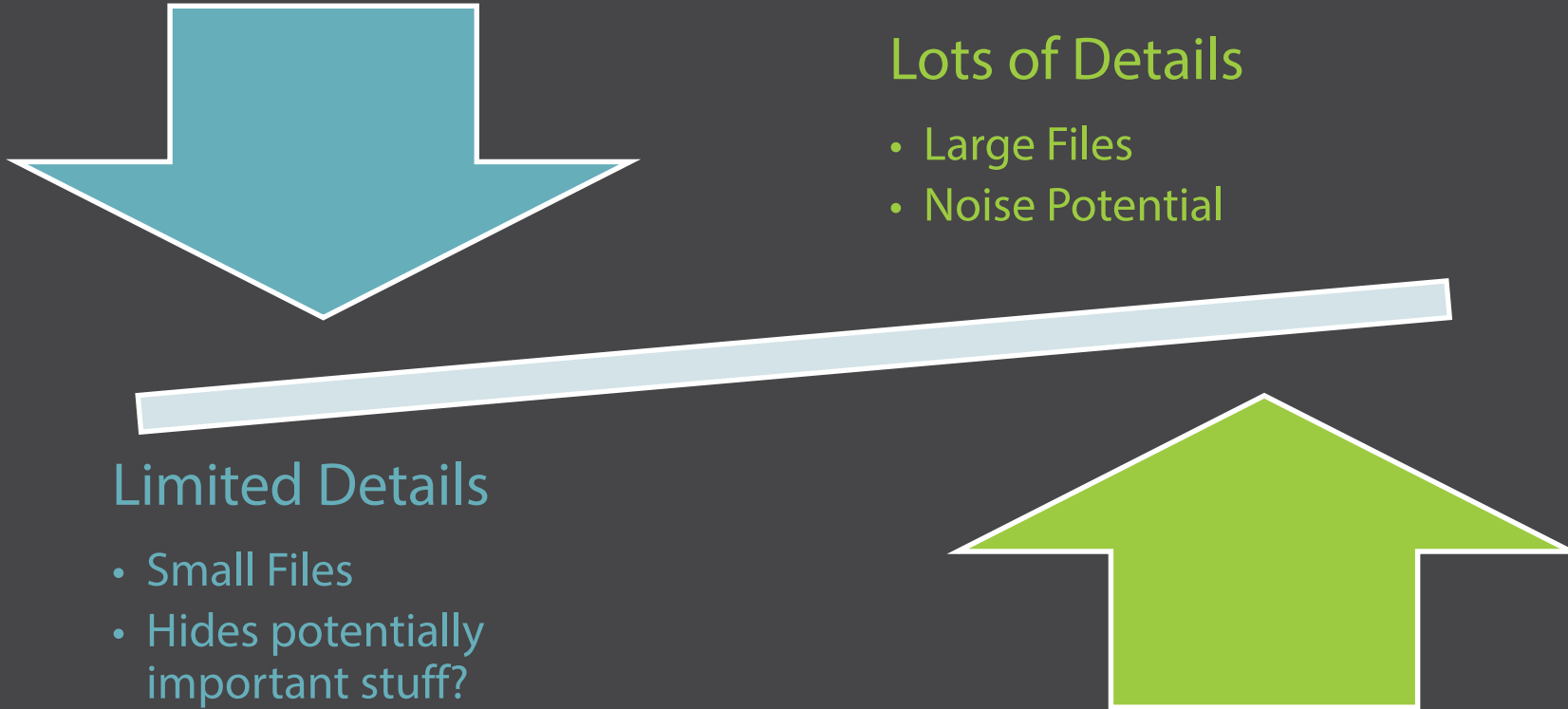
Change Logging Level at Runtime

- Verbosity level numeric 0 to 5
- Topic as a string (optional)

Persisting Verbosity Levels



What Level?



Query Profiler



```
db.setProfilingLevel( 2 , 20 )
```

Level

Threshold (milliseconds)

Query Profiling Options

- Levels 0 (default), 1, and 2
- (Optional) Capture only "slow" queries that exceed threshold

mongostat



```
mongostat --host myServer --port 27017
```

mongostat

- Runtime statistics from mongod servers
- Continuously polls and displays values

mongotop



```
mongotop --host myServer --port 27017
```

mongotop

- Shows where mongod spends most of the time
- Continuously polls and displays values

```
// from the shell
```

```
db.stats( 1024 )
```



Optional

Database Summary Stats

- Optional scale parameter to display MB, GB etc.
- Not all numbers are scaled (ex: document avg. size, document count)


```
// from the shell
```

```
db.messages.stats( 1024 )
```

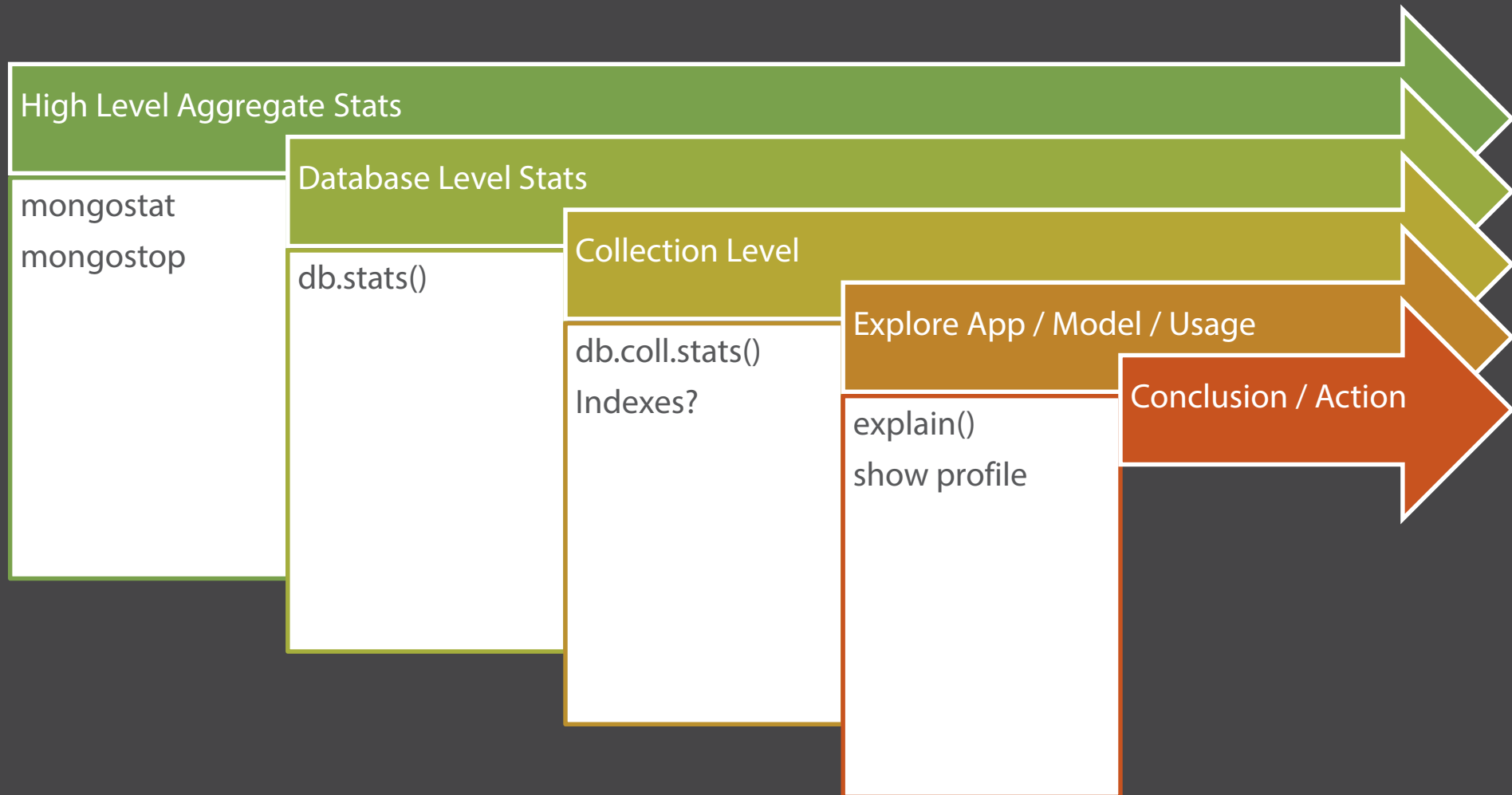
Optional

Stats on "messages" collection

Collection Summary Stats

- Optional scale parameter to display MB, GB etc.

Diagnostics



```
db.serverStatus()
```

```
// or as a Mongo command:
```


```
db.runCommand( {serverStatus:1} )
```

Server Runtime Status

- Gathers a mix of runtime statistics and resource usage
- Some parts of output are platform dependent
- Some parts of the output are storage engine dependent

Server Status Output — M x

docs.mongodb.org/manual/reference/server-status/

 **mongoDB**

Learn Drivers Download

Administration

- + Administration Concepts
- + Administration Tutorials
- Administration Reference
 - UNIX `ulimit` Settings
 - Transparent Huge Pages (THP) Settings
 - System Collections
 - Database Profiler Output
 - Server Status Output**
 - Journaling Mechanics
 - Exit Codes and Statuses
 - Production Checklist

Administration > Administration Reference > Server Status Output

Server Status Output

This document provides a quick overview and example of the `db.serverStatus()` in the `mongo` shell provides access to the content of this output, see `serverStatus`.

NOTE:

The output fields vary depending on the version of MongoDB, the storage engine, and the kind of node, including `mongos`, `serverStatus` output specific to the version of your Mongo

d:\mongodb-win32-x86_64-2008plus-ssl-3.0.1\bin\mongostat.exe										
time	insert	query	update	delete	getmore	command	flushes	mapped	vsize	re
12:31:57	*0	*0	*0	*0	0	5 0	0	80.0M	310.0M	53.0
12:31:58	*0	*0	*0	*0	0	5 0	0	80.0M	310.0M	53.0
12:31:59	*0	*0	*0	*0	0	5 0	0	80.0M	310.0M	53.0
12:32:00	*0	*0	*0	*0	0	5 0	0	80.0M	310.0M	53.0
12:32:01	*0	*0	*0	*0	0	6 0	0	80.0M	310.0M	53.0
12:32:02	*0	*0	*0	*0	0	5 0	0	80.0M	310.0M	53.0
12:32:03	*0	*0	*0	*0	0	4 0	0	80.0M	310.0M	53.0
12:32:04	*0	*0	*0	*0	0	5 0	0	80.0M	310.0M	53.0
12:32:05	*0	*0	*0	*0	0	6 0	0	80.0M	310.0M	53.0
12:32:06	*0	*0	*0	*0	0	5 0	0	80.0M	310.0M	53.0
12:32:07	*0	*0	*0	*0	0	6 0	0	80.0M	310.0M	53.0

```

d:\mongodb-win32-x86_64-2008plus-ssl-3.0.1\bin\mongostat.exe
*0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:31:57 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:31:58 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:31:59 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:00 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
insert query update delete getmore command flushes mapped vsize re
time
*0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
12:32:01 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:02 *0 *0 *0 *0 0 4|0 0 80.0M 310.0M 53.0
12:32:03 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:04 *0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
12:32:05 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:06 *0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
12:32:07

```

```

d:\mongodb-win32-x86_64-2008plus-ssl-3.0.1\bin\mongostat.exe
*0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:31:57 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:31:58 *0 *0 *0 *0 0 4|0 0 80.0M 310.0M 53.0
12:31:59 *0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
12:32:00 *0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
12:32:01 *0 *0 *0 *0 0 4|0 0 80.0M 310.0M 53.0
12:32:02 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:03 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:04 *0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
12:32:05 *0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
insert query update delete getmore command flushes mapped vsize re
time
*0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
12:32:06 *0 *0 *0 *0 0 4|0 0 80.0M 310.0M 53.0
12:32:07

```

```

d:\mongodb-win32-x86_64-2008plus-ssl-3.0.1\bin\mongostat.exe
*0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:31:57 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:31:58 *0 *0 *0 *0 0 4|0 0 80.0M 310.0M 53.0
12:31:59 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:00 *0 *0 *0 *0 0 7|0 0 80.0M 310.0M 53.0
12:32:01 *0 *0 *0 *0 0 4|0 0 80.0M 310.0M 53.0
12:32:02 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:03 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:04 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:05 *0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
12:32:06 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
insert query update delete getmore command flushes mapped vsize re
time
*0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:07

```

```

d:\mongodb-win32-x86_64-2008plus-ssl-3.0.1\bin\mongostat.exe
*0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:31:57 *0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
12:31:58 *0 *0 *0 *0 0 4|0 0 80.0M 310.0M 53.0
12:31:59 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:00 *0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
12:32:01 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:02 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:03 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
insert query update delete getmore command flushes mapped vsize re
time
*0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:04 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:05 *0 *0 *0 *0 0 5|0 0 80.0M 310.0M 53.0
12:32:06 *0 *0 *0 *0 0 6|0 0 80.0M 310.0M 53.0
12:32:07

```




[Customers](#)

[Products](#)

[MMS](#)

[Partners](#)

[Community](#)

[Events](#)

[Company](#)

THE EASIEST WAY TO RUN MONGODB

Cloud managed MongoDB on the
infrastructure of your choice.

[START FOR FREE](#)

[Learn More](#)

[AWS](#)

[Stories](#)

[Pricing](#)

[Tech Specs](#)

MMS Setup

Feedback

Advanced Setup

Need Help?

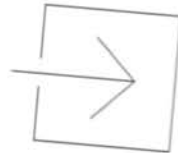
Do you want to build a new deployment or use MMS to manage an existing deployment?



Build New Deployment

I want to build and fully manage a new MongoDB deployment.

BUILD NEW



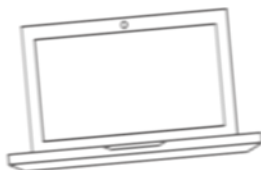
Manage Existing Deployment

I have a MongoDB deployment already and I want to use MMS to manage it.

MANAGE EXISTING

MMS Setup

Where would you like to deploy MongoDB?



Local

I'm creating a new MongoDB deployment on my laptop/desktop.

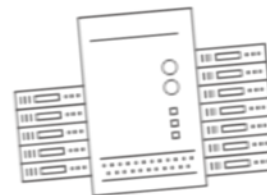
DEPLOY LOCALLY



AWS

I'm creating a new MongoDB deployment in Amazon Web Services.

DEPLOY IN AWS



Other Remote

I'm creating a new MongoDB deployment in some other remote environment.

DEPLOY IN OTHER REMOTE

What type of MongoDB deployment would you like to build?

All deployments will be built with using latest [Production Release of MongoDB](#).

• Standalone Instance

A standalone MongoDB provides a single copy of your data and is appropriate for projects where data loss is not a concern.

CREATE STANDALONE

⌘ Replica Set

A [replica set](#) is a group of MongoDB instances that host the same data set. A replica set provides both redundancy and high availability.

CREATE REPLICA SET

✿ Sharded Cluster

[Sharding](#) is a method for storing data across multiple machines. MongoDB uses sharding to support deployments with very large data sets and high throughput operations.

CREATE SHARDED CLUSTER

Deployment

Activity

Backup

Administration

My Account

Account

Personalization

API Keys & Whitelists

My Groups

Plus N Demo1

Group Settings

Users

Agents

AWS Settings

Billing/Subscriptions

Payment History

Feedback

Agents

There are no active agents

Agent Downloads

Monitoring current: 3.30.183

Monitoring Agents may be downloaded, installed and managed by your Automation Agents. To install a new Monitoring Agent visit the [Deployment : Servers](#) page and choose a server to host your Monitoring Agent.

If you are managing your Monitoring Agents manually, new versions may be downloaded below.

- 🔗 [RHEL/CentOS \(7.X\) - RPM](#)
- 🔗 [RHEL/CentOS \(5.X, 6.X\), SUSE, and Amazon Linux - RPM](#)
- 🔗 [Ubuntu \(12.04 and above\) - DEB](#)
- 🔗 [RHEL/CentOS \(7.X\) - TAR](#)
- 🔗 [Other Linux - TAR](#)
- 🍏 [Mac OSX \(10.8 and above\) - TAR](#)
- 🍏 [Mac OSX \(10.6, 10.7\) & Solaris - TAR](#)
- 🏠 [Windows - MSI](#)

Backup current: 3.40.273

Backup Agents may be downloaded, installed and managed by your Automation Agents. To install a new Backup Agent visit the [Deployment : Servers](#) page and choose a server to host your Monitoring Agent.

If you are managing your Backup Agents manually, new versions may be downloaded below.

- 🔗 [RHEL/CentOS \(7.X\) - RPM](#)
- 🔗 [RHEL/CentOS \(5.X, 6.X\), SUSE, and Amazon Linux - RPM](#)
- 🔗 [Ubuntu \(12.04 and above\) - DEB](#)
- 🔗 [RHEL/CentOS \(7.X\) - TAR](#)
- 🔗 [Other Linux - TAR](#)
- 🍏 [Mac OSX \(10.8 and above\) - TAR](#)
- 🏠 [Windows - MSI](#)



Deployment



Activity



Backup



Administration

Activity

OPEN ALERTS

CLOSED ALERTS

ALL ACTIVITY

Type

Description



Deployment configuration published

Changed by nuri@plusnconsulting.com from 204.93.49.10



Deployment configuration published

Changed by nun@plusnconsulting.com from 204.93.49.10



Host has been removed

Changed by nuri@plusnconsulting.com from 204.93.49.10



Alert configuration disabled

[Agent is down](#)

Changed by nuri@plusnconsulting.com from 205.234.17.32



Alert configuration enabled

[Agent is down](#)

Changed by nuri@plusnconsulting.com from 205.234.17.32



Host has restarted

- [ubuntu:27000](#)

Summary

