MongoDB INSTALLATION GUIDE

Version 1.0.0



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1 Preface

This guide provides instructions about installing and configuring MongoDB. This preface contains these topics:

- <u>Audience</u>
- <u>Prerequisites</u>
- Documentation Accessibility
- <u>Conventions</u>

1.1 Audience

MongoDB Installation Guide is intended for administrators or anyone installing MongoDB on a computer.

1.2 Prerequisites

- A supported Microsoft Windows operating system installed and tested on your computer system
- Administrative privileges on the computer where you installed SQL Database software
- Knowledge about the following concepts:
 - Firewalls
 - Public and private networks
 - Connected applications

1.3 Documentation Accessibility

Logilab ELN documentation set consists of the following:

- 1. Logilab ELN Installation Guide
- 2. Logilab ELN User Manual

3. MongoDB Installation Guide

1.4 Conventions

The following text conventions are used in this document:

1.4.1 Keyboard

Keys are referred to throughout the guide in the following way:

[ENTER] – denotes the return or enter key, [DELETE] – denotes the Delete key and so on.

Where a command requires two keys to be pressed, the manual displays this as follows:

[CTRL][P] – this means press the letter "p" while holding down the Control key.

1.4.2 Callout

Callouts are used to denote an action or describe something in the interface.

Click here

2 System requirements

2.1 Hardware Requirements

Computer	Component	Minimum requirement
Client	Processor	Pentium III
		More than 700 MHz
	RAM	16 GB or higher
	Hard disk	20 GB of free space
	Network Access	100 Mbps speed or higher
Server	Processor	Xeon Class
		3GHz
	RAM	16 GB or higher
	Hard disk	40 GB of free space for installation of database and App server.
		Minimum RAID I for data protection

2.2 Software Requirements

Computer	Minimum requirement
Client	Microsoft® Windows® 2000 or Windows® XP or Windows Vista or higher(needs special version of client)
	Windows 7 or Windows 8 or Windows 10 (normal version)
	Latest version of Google Chrome
Server	Microsoft® Windows® 2012 server or higher.
	MS SQL Server 2017 or higher
	Apache Tomcat Manager 8.0 or above installed with memory pool up to 3GB maximum.

3 Installation

MongoDB installation process consists of the following steps:

Step 1: Download MongoDB 4.4.1

Step 2: Installing MongoDB

Step 3: Creating Database

3.1 Downloading MongoDB 4.4.1

To download MongoDB 4.4.1, follow these steps:

1. Open Browser, in the title bar type <u>www.mongodb.com/try/download/community</u> and then press ENTER. The screen appears as shown in the figure:



FIGURE: Download MongoDB

- 2. Under Available Downloads, in the Version field, select 4.4.1.
- 3. In the **Platform** field, select **Windows**.
- 4. In the **Package** field, select **zip**.
- 5. Click Download.

3.2 Installing MongoDB

To install mongoDB, follow these steps:

- 1. Log in to an administrator account on your computer, quit all open applications, and log out any other users on your computer.
- 2. Extract the Zip file, and then double-click **Setup** file. The **MongoDB Setup Wizard** appears as shown in the figure:

뤩 MongoDB 4.4.1 2008R2Plus	SSL (64 bit) Setup	<u>141</u> 1)	• ×
	Welcome to the Mon 2008R2Plus SSL (64	goDB 4.4.1 bit) Setup V	Wizard
	The Setup Wizard will install Mo (64 bit) on your computer. Clid to exit the Setup Wizard.	ngoD8 4,4,1 200 k Next to continu	18R.2Plus SSL e or Cancel
Y			
	Back	Next	Cancel

FIGURE: MongoDB Setup Wizard

3. Click Next. The End – User License Agreement dialog appears as shown in the figure:



FIGURE: End-User License Agreement

4. Click to select I accept the terms in the License Agreement check box and then click Next. The Choose Setup Type dialog appears as shown in the figure:



FIGURE: Choose Setup Type Dialog

5. Click to select **Complete** to install all program features. And then click **Next**. The **Service Configuration** dialog appears as shown in the figure:

Service Configurat	noi				
Specify optional set	ttings t	o configure MongoD8 as	a service.		
Instal MongoD as a	Service	2			
Run service as N	etnori	Service user			
O Run service as a	local o	r domain user:			
Account Domain	ni:	1			
Account Name:		MongoDB			
Account Passw	ord:	[10		
Service Name:	Mon	goD8			
Data Directory:	C:V	rogram Files\MongoDB\	Server \4.4\data \		_
Log Directory:	C:VP	rogram Files\MongoD6\	Server\4.4¥og\		
		-	(Back	lest >	Castral

FIGURE: Service Configuration

6. Click Next. The Install MongoDB Compass dialog appears as shown in the figure:

MongoDB Compass		-	D	×
Install MongoDB Compass				
MangoDB Compass is the official gr	aphical user interface	for MangoDB.		Ψ.
By checking below this installer will latest version of MongoDB Compass about MongoDB Compass here: htt	automatically downloa s on this machine. You ps://www.mongodb.ci	d and install the can learn more om/products/comp.	÷	
Instal MongoDB Compass	Back	Next	Can	ael

FIGURE: Install MongoDB Compass Dialog

7. Click **Next**. The **Ready to Install MongoDB 4.4.1** dialog appears as shown in the figure:



FIGURE: Ready to Install MongoDB Compass Dialog

8. Click Install. MongoDB wizard asks for system reboot as shown in the figure:

Please w	👹 Mong	oDB 4.4.1 2008R28	Plus SSL (64	bit) Setup		×
Status:	0	The setup must up updated while the continue, a reboo setup.	odate files o system is ru t will be requ	r services that ming. If you ired to complete Cancel	cannot be choose to cte the	

FIGURE: Installing MongoDB Dialog

9. Click **Ok**. MongoDB will be installed and the progress appears as shown in the figure:



FIGURE: Installing MongoDB

The Files in Use dialog appears as shown in the figure:

iles in Use			
Some files that need to be	updated are currently in use.		
The following applications Setup Wizard close them a	are using files that need to be nd attempt to restart them or	e updated by this setup. You reboot the machine later.	r can let
ApsTrsMonitorSvc McAfee Module Core Serv Microsoft Edge Microsoft Teams Snagit Snagit Editor SnagPriv.exe	lce		
Oose the applications	s and attempt to restart them.	1	

FIGURE: Files in Use Dialog

10. Click to select **Close the applications and attempt to restart them** option and then click **Ok**. The following dialog may appear asking to close certain applications manually as shown in the figure:

Please w	🛃 Mongo	DB 4.4.1 20	08R2Plus SS	SL (64 bit) Se	tup	×	
Status:	A	The setup v applications	vas unable to . Please ensu	automatically re that the app	dose all reques dications holdin	ted g files	
	_	in use are c	losed before (continuing wit	h the installation	L.	
		07	_		Cancel	- 1	
1		OK			Cancel	_	

FIGURE: Close Application Request Dialog

11. Click **Ok** and then close all the mentioned applications. The installation will be completed and the **Completed MongoDB 4.4.1 Setup Wizard** dialog appears as shown in the figure:



FIGURE: Completed MongoDB 4.4.1 Setup Dialog

12. Click Finish. The setup will prompt for system restart as shown in the figure:



FIGURE: System Restart Dialog

13. Click **Yes** to restart the system. The system reboots. On successful reboot, the MongoDB icon appears on the Desktop as shown in the figure:



FIGURE: Desktop Showing MongoDB icon

14. Double - click the icon to open MongoDB. The plugins will start loading as shown in the figure:



FIGURE: MongoDB Compass – Loading Plugins Screen

Once all the plugins are loaded, the **Welcome to MongoDB Compass** screen appears as shown in the figure:

MongeDB Compass - Connect Connect View Help New Company Welcome to MongeDB Cor Favoria	mpass	- ×
2 Recent		Performance Charts.
The farts above statistics operations, parsets, environments, environments, consections and memory coart time.	The parcentage value represents the system head for such constraints where the such constraints where	netrous and database operations. Dil down vito database operations easily and understand your most active collections.

FIGURE: MongoDB Compass Welcome Screen

15. Click **Next** in the **Welcome to MongoDB Compass** screen until you see the following screen:

MongoDB Compass - Connect Connect View Help				-	٥	×
* Favorite Welcome to	MongoDB	Compass		×		
Pecens Open the qu definition defi	taronte		Cuery History Easily access and manage executed queries and have Invertes for other executed queries. Previous Get Started		aria T aria aria aria	

FIGURE: MongoDB Compass Welcome Screen2

16. Click **Get Started**. The screen appears as shown in the figure:

To eni extern	nance the user experience, Compass can integrate with 3rd party services, which requires al network requests. Please choose from the settings below:
	Enable Product Feedback Tool
	Enables a tool for sending feedback or talking to our Product and Development teams directly from Compass.
	Enable Geographic Visualizations
	Allow Compass to make requests to a 3rd party mapping service.
1	Enable Crash Reports
	Allow Compass to send crash reports containing stack traces and unhandled exceptions.
4	Enable Usage Statistics
	Allow Compass to send anonymous usage statistics.
1	Enable Automatic Updates
	Allow Compass to periodically check for new updates.
With a Learn	any of these options, none of your personal information or stored data will be submitted. more:MongoDB Privacy Policy

FIGURE: Privacy Settings Screen

17. In the Privacy Settings screen, click Start Using Compass.

3.3 Creating Database

When you click **Start Using Compass**, the **New Connection** screen appears as shown in the figure:



FIGURE: New Connection Screen

18. Click Fill in connection fields individually. The screen appears as shown in the figure:

New Connection	New Connection	- 1	
* Favorites	New Connection	Paste connection string	
C Recents			
A DAY ABO localhost:27017	Hostname More Option	s	New to Compase and don't have a cluster?
A DAY AGO localhost:27017	Herterne		If you don't already have a cluster, you can create one for free using <u>MongoDB Atlas</u> .
A MINUTE AGO localhost:27017	nosname	caindas	CREATE FREE CLUSTER
	Port 2	7017	
	SRV Record	\mathcal{D}	How do I find my username and password? If your mongod instance has authentication set up, world neart the createntials of the MongoDB are
	Authentication	lone •	that is configured on the project.
		CONNECT	

FIGURE: New Connection Screen

19. Under **Hostname**, in the **Hostname** and **Port** fields, ensure that the default host name and port number of MongoDB is filled and then click **CONNECT**. The screen appears as shown in the figure:

MongoDB Compass - localhost 27017					- 🗆 X
Connect View Help	Databases Performa	rice			
- abes a couldenions C	CREATE DATABASE				_
HOST Incelhost 92017	Database Name *	Storage Size	Collections	Indexes	
cuorte Standalone	admin	20.0KB	0	т	8
EDITION MongoDB 4.4.1 Community	config	4.0KB	0	2	8
Q. Film point data > admin > config > local	Iscal	20.0KB	7	1	
٠					
>_MongoSH Beta					

FIGURE: Database Screen

20. Click **CREATE DATABASE**. The **Create Database** dialog appears as shown in the figure:

ATTENTS (Marrie				
ELN				
Collection Name			_	
ELN				
Use Custom Co	on ()			
Before MongoDE also be specified	can save you at the time of	ar new databa creation. <u>Me</u>	ae, a colect re informeti	ion name mus

FIGURE: Create Database Dialog

- 21. In the **Database Name** field, type the database name. Example: ELN
- 22. In the **Collection Name** field, type collection name. Example: ELN
- 23. Click **CREATE DATABASE**. The database is created and appears as shown in the figure:

MongoDB Compass - localhost:27017 Connect View Help Local	Databases Performa	nce			- ¤ ×
1988 1 COLLECTIONS C O FAVORITE	CREATE DATABASE	Storage Size	Collections	Indexes	
localhoet:27017 cruster Standalone	ELN	4.0KB	1	ä	
EDITION MongeDB 4.4.1 Community	edmin	20.0KB	0	1	
Q. Filter your data	config	20.0KB	0	2	
> admin > config > local	local	20.0KB	1	1	
•					

FIGURE: Database Created

At runtime, you see the orders, sheets etc created stored in MongoDB that appears as shown in the figure

MongoDB Compass - localhost:27017 Connect View Help Local	Databases	Parformance			×
 → +DES +COLLICHONS C 	CHEATE DATABASE				
HORA	Database Name *	Storage Size	Collections	Indexes	
localhost:27017 CLUSTER Standalone	ELN	1.7MB	78	<u>9</u>	8
EDTION Managenet 4.4.7 Community	edmin	20.0KB	0	1	8
✓ ELN ELN	config	12.0KB	0	2	8
fs.chunks	local	48.0KB	Ϋ́.	а	
fs.files					
orderCreation					
orderVersion					
sheetVersion					
> unay > local					

FIGURE: MongoDB Showing Stored ELN Sheets and Orders