

## Step 1 – Disable SELinux

By default, SELinux is enabled in CentOS 8. It is a good idea to disable the SELinux to work Zabbix properly.

You can disable the SELinux by editing `/etc/selinux/config` file

```
$ vi /etc/selinux/config
```

Change the following line:

```
SELINUX=disabled
```

Save and close the file when you are finished then restart your system to reflect the changes.

## Step 2 – Install LAMP Server

First, you will need to install the Apache webserver, MariaDB database server, PHP and other required PHP extension to your system.

Run the following command to install all the packages:

```
$ dnf install -y httpd mariadb-server php php-cli php-common php-mbstring php-mysqldb php-xml php-bcmath php-devel php-pear php-gd
```

Once the installation is completed, open `php.ini` file and tweak some settings:

```
$ vi /etc/php.ini
```

Change the following values as per your requirements:

```
memory_limit 256M
upload_max_filesize 16M
post_max_size 16M
max_execution_time 300
max_input_time 300
max_input_vars 10000
date.timezone = Asia/Dhaka
```

Save and close the file then start the Apache and MariaDB service and enable them to start after system reboot with the following command:

```
$ systemctl start httpd
```

```
$ systemctl start mariadb
```

```
$ systemctl enable httpd
```

```
$ systemctl enable mariadb
```

## Step 3 – Configure MariaDB Database

By default, the MariaDB server is not secured in the CentOS 8. Run the following command to secure the MariaDB:

```
$ mysql_secure_installation
```

This script will set the MariaDB root password, remove anonymous users, disallow root login remotely and remove test database as shown below:

```
Enter current password for root (enter for none): Press Enter
```

```
Set root password? [Y/n] Y
```

```
New password:
```

```
Re-enter new password:
```

```
Remove anonymous users? [Y/n] Y
```

```
Disallow root login remotely? [Y/n] Y
```

```
Remove test database and access to it? [Y/n] Y
```

```
Reload privilege tables now? [Y/n] Y
```

Once the MariaDB is secured, log in to MariaDB shell with the following command:

```
$ mysql -u root -p
```

After login, create a database and user for Zabbix with the following command:

```
1 MariaDB [(none)]> CREATE DATABASE zabbix CHARACTER SET utf8 collate utf8_bin;  
2 MariaDB [(none)]> GRANT ALL PRIVILEGES ON zabbix.* TO zabbix@localhost IDENTIFIED BY 'zabbixpassword';
```

Next, flush the privileges and exit from the MariaDB shell with the following command:

```
1 MariaDB [(none)]> FLUSH PRIVILEGES;  
2 MariaDB [(none)]> EXIT;
```

## Step 4 – Install Zabbix Server

Before installing Zabbix, you will need to install the libssh2 library required by Zabbix to your system. You can install it with the following command:

```
$ dnf install -y  
http://mirror.centos.org/centos/8.0.1905/AppStream/x86_64/os/Packages/libssh2-1.8.0-  
8.module_el8.0.0+189+f9babebb.1.x86_64.rpm
```

By default, Zabbix is not available in the CentOS 8 repository. So you will need to install the Zabbix repository in your system.

At the time of writing this tutorial, the latest version of Zabbix is Zabbix 4.4. You can install the Zabbix 4.4 repository package by running the following command:

```
$ dnf install -y https://repo.zabbix.com/zabbix/4.4/rhel/8/x86_64/zabbix-release-4.4-  
1.el8.noarch.rpm
```

Once the repository is created, run the following command to install the Zabbix server with other required packages:

```
$ dnf install -y zabbix-server-mysql zabbix-web-mysql zabbix-agent zabbix-apache-conf
```

Once the installation is completed, start the Zabbix server, Zabbix agent and PHP-FPM services, and enable them to start after system reboot with the following command:

```
$ systemctl start zabbix-server
```

```
$ systemctl start zabbix-agent
```

```
$ systemctl start php-fpm
```

```
$ systemctl enable zabbix-server
```

```
$ systemctl enable zabbix-agent
```

```
$ systemctl enable php-fpm
```

Zabbix server and agent is now started and listening on ports 10050 and 10051. You can check them using the following command:

```
$ netstat -ant | grep LISTEN
```

You should get the following output:

tcp	0	0 0.0.0.0:22	0.0.0.0:*	LISTEN
tcp	0	0 0.0.0.0:10050	0.0.0.0:*	LISTEN
tcp	0	0 0.0.0.0:10051	0.0.0.0:*	LISTEN

## Step 5 – Configure Zabbix

First, you will need to import the database schema to the Zabbix database. You can import it with the following command:

```
$ cd /usr/share/doc/zabbix-server-mysql
```

```
$ zcat create.sql.gz | mysql -u zabbix -p zabbix
```

Next, edit the `zabbix_server.conf` file and define your Zabbix database credentials:

```
$ vi /etc/zabbix/zabbix_server.conf
```

Change the following lines:

```
DBHost=localhost
```

```
DBName=zabbix
```

```
DBUser=zabbix
```

```
DBPassword=zabbixpassword
```

Save and close the file.

Next, configure PHP for Zabbix frontend by editing the following file:

```
$ vi /etc/php-fpm.d/zabbix.conf
```

Change the `timezone` value with your desired value as shown below:

```
php_value[date.timezone] = Asia/Dhaka
```

Save and close the file when you are finished. Next, restart all the services to apply the changes:

```
$ systemctl restart zabbix-server
```

```
$ systemctl restart zabbix-agent
```

```
$ systemctl restart php-fpm
```

```
$ systemctl restart httpd
```

```
$ systemctl restart mariadb
```

## Step 6 – Configure Firewall for Zabbix

Next, you will need to allow the Zabbix ports 10050 and 10051. and HTTP service through firewalld. You can allow them with the following command:

```
$ firewall-cmd --permanent --add-service=http
```

```
$ firewall-cmd --permanent --add-port=10050/tcp
```

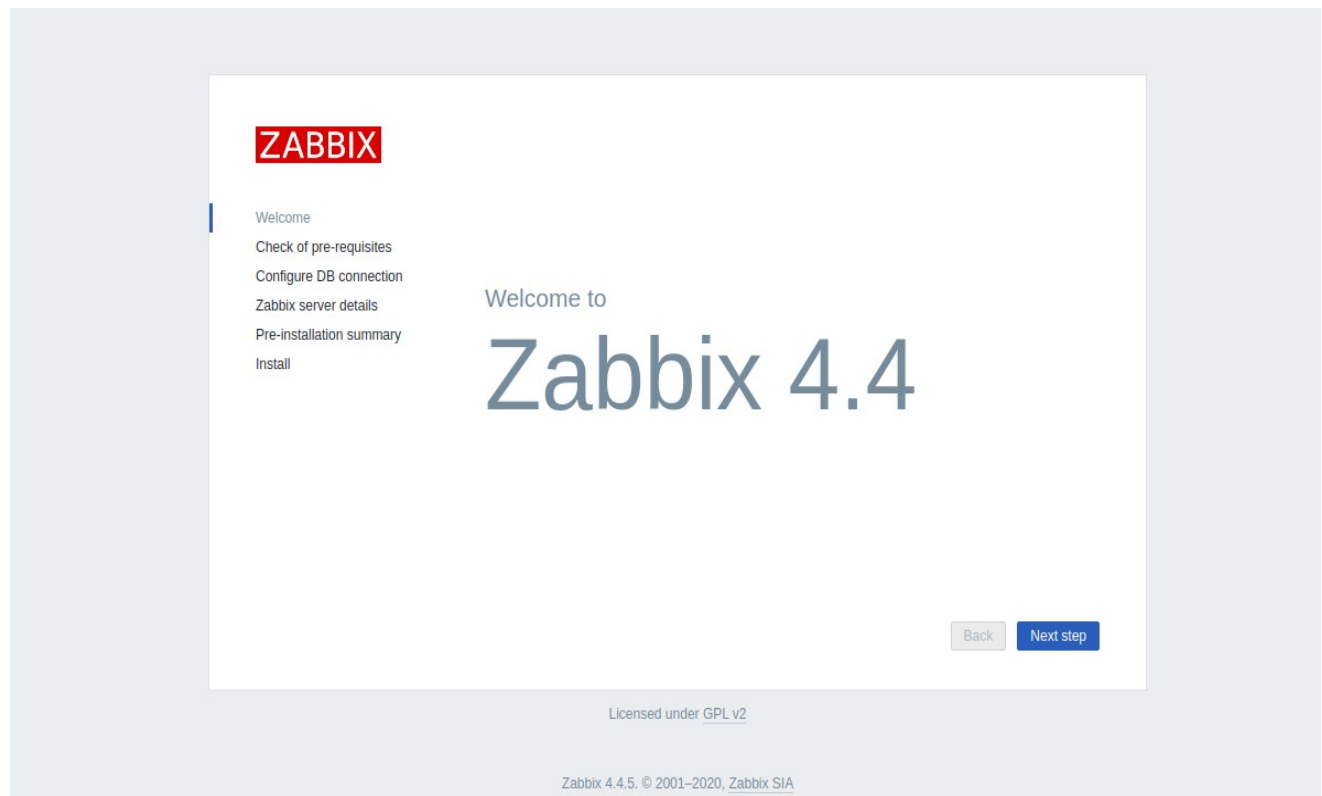
```
$ firewall-cmd --permanent --add-port=10051/tcp
```

Now, reload the firewalld service to implement the changes:

```
$ firewall-cmd --reload
```

## Step 7 – Access Zabbix Web Interface

Now, open your favorite web browser and type the URL **http://your-server-ip/zabbix**. You will be redirected to the Zabbix web installation wizard in the following screen:



Click on the **Next step** button. You should see the following page:



## Check of pre-requisites

Welcome

Check of pre-requisites

Configure DB connection

Zabbix server details

Pre-installation summary

Install

	Current value	Required	
PHP version	7.2.11	5.4.0	OK
PHP option "memory_limit"	128M	128M	OK
PHP option "post_max_size"	16M	16M	OK
PHP option "upload_max_filesize"	2M	2M	OK
PHP option "max_execution_time"	300	300	OK
PHP option "max_input_time"	300	300	OK
PHP option "date.timezone"	Asia/Kolkata		OK
PHP databases support	MySQL		OK
PHP bcmath	on		OK
PHP mbstring	on		OK

Back

Next step

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Make sure all the required dependencies are installed then click on the **Next step** button. You should see the following page:



## Configure DB connection

Please create database manually, and set the configuration parameters for connection to this database.  
Press "Next step" button when done.

Welcome

Check of pre-requisites

Configure DB connection

Zabbix server details

Pre-installation summary

Install

Database type

Database host

Database port  0 - use default port

Database name

User

Password

Back

Next step

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Provide your database credentials and click on the **Next step** button. You should see the following page:



## Zabbix server details

Please enter the host name or host IP address and port number of the Zabbix server, as well as the name of the installation (optional).

Welcome

Check of pre-requisites

Configure DB connection

Zabbix server details

Pre-installation summary

Install

Host

Port

Name

Back

Next step

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Provide your Zabbix server details and click on the **Next step** button. You should see the following page:





## Pre-installation summary

Please check configuration parameters. If all is correct, press "Next step" button, or "Back" button to change configuration parameters.

Welcome

Check of pre-requisites

Configure DB connection

Zabbix server details

Pre-installation summary

Install

Database type MySQL

Database server localhost

Database port default

Database name zabbix

Database user zabbix

Database password \*\*\*\*\*

Zabbix server localhost

Zabbix server port 10051

Zabbix server name Tecadmin-Zabbix

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Next step

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Make sure all the configuration parameters are correct then click on the **Next step** button. Once the installation has been completed successfully, you should see the following page:



## Install

- Welcome
- Check of pre-requisites
- Configure DB connection
- Zabbix server details
- Pre-installation summary
- Install**

**Congratulations! You have successfully installed Zabbix frontend.**

Configuration file "/etc/zabbix/web/zabbix.conf.php" created.


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Finish

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Click on the Finish button. You will be redirected to the Zabbix login page as shown below:



Username

Password

☒ Remember me for 30 days

Sign in

[Help](#) • [Support](#)

Provide the Zabbix default username and password as Admin / zabbix and click on the Sign-in button. You should see the Zabbix dashboard in the following screen:

Global view

Edit dashboard

All dashboards / Global view

System information

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled/templates)	137	1 / 0 / 136
Number of items (enabled/disabled/not supported)	96	88 / 0 / 8
Number of triggers (enabled/disabled [problem/ok])	49	49 / 0 [0 / 49]
Number of users (online)	2	1
Required server performance: new values per	1	31



Problems

Time	Info	Host	Problem • Severity	Duration	Ack	Actions	Tags
No data found.							

Favourite maps

No maps added.