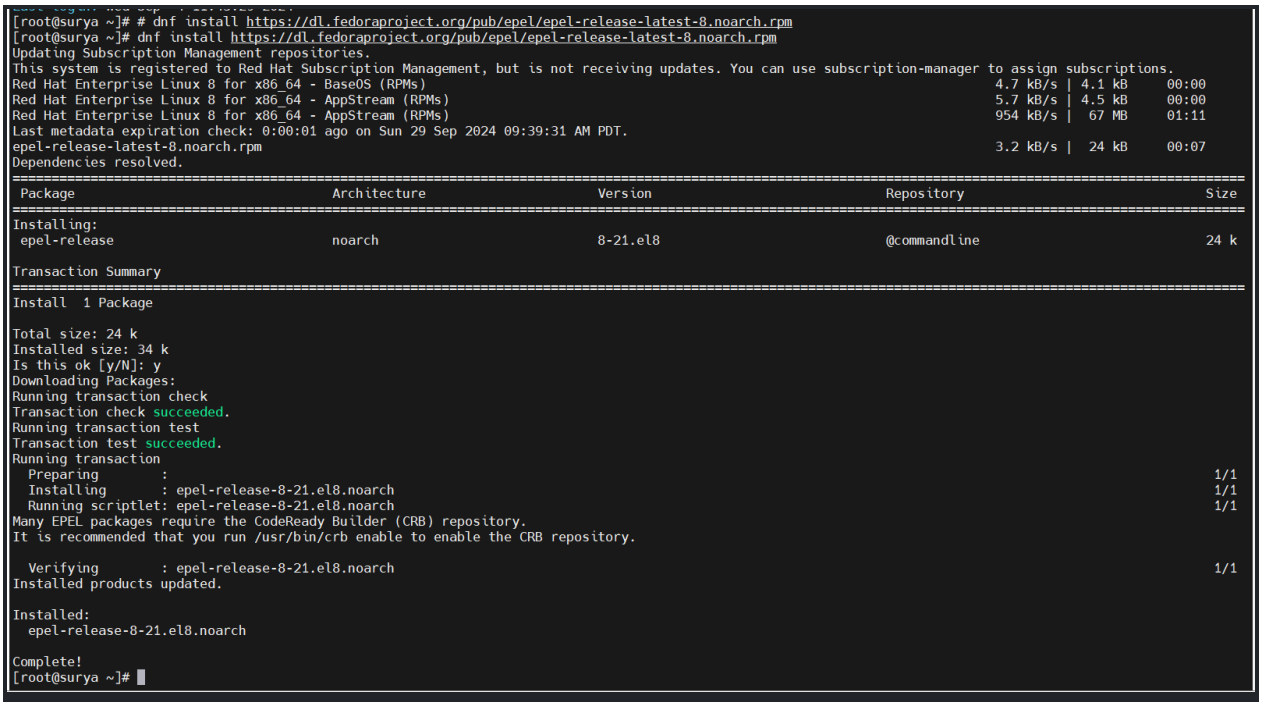
========== ZABBIX_Installation ==========

ZABBIX:- Zabbix is an open-source monitoring tool that can be used to monitor IT infrastructure such as servers, networks, virtual machines, applications, cloud services, and databases.

→ Install epel-release packages

```
# dnf install
https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm
```



→ Install necessary packages

dnf install httpd php php-fpm php-mysqlnd php-ldap php-bcmath php-mbstring php-gd php-pdo php-xml

```
[root@surya ~]# dnf install httpd php php-fpm php-mysqlnd php-ldap php-bcmath php-mbstring php-gd php-pdo php-xml
Updating Subscription Management repositories.
This system is registered to Red Hat Subscription Management, but is not receiving updates. You can use subscription-manager to assign subscriptions.
Extra Packages for Enterprise Linux 8 - x86_64                                                  112 kB/s |  14 MB     02:05
Last metadata expiration check: 0:00:57 ago on Sun 29 Sep 2024 09:46:34 AM PDT.
Dependencies resolved.
================================================================================================================================================
 Package                      Architecture       Version                                        Repository                                  Size
================================================================================================================================================
Installing:
 php                          x86_64             7.2.24-1.module+el8.2.0+4601+7c76a223          rhel-8-for-x86_64-appstream-rpms           1.5 M
 php-bcmath                   x86_64             7.2.24-1.module+el8.2.0+4601+7c76a223          rhel-8-for-x86_64-appstream-rpms            79 k
 php-fpm                      x86_64             7.2.24-1.module+el8.2.0+4601+7c76a223          rhel-8-for-x86_64-appstream-rpms           1.6 M
 php-gd                       x86_64             7.2.24-1.module+el8.2.0+4601+7c76a223          rhel-8-for-x86_64-appstream-rpms            84 k
 php-mbstring                 x86_64             7.2.24-1.module+el8.2.0+4601+7c76a223          rhel-8-for-x86_64-appstream-rpms           580 k
 php-mysqlnd                  x86_64             7.2.24-1.module+el8.2.0+4601+7c76a223          rhel-8-for-x86_64-appstream-rpms           191 k
 php-xml                      x86_64             7.2.24-1.module+el8.2.0+4601+7c76a223          rhel-8-for-x86_64-appstream-rpms           189 k
 php-ldap                     x86_64             7.2.24-1.module+el8.2.0+4601+7c76a223          rhel-8-for-x86_64-appstream-rpms            79 k
 php-pdo                      x86_64             7.2.24-1.module+el8.2.0+4601+7c76a223          rhel-8-for-x86_64-appstream-rpms           123 k
 httpd                        x86_64             2.4.37-65.module+el8.10.0+22196+d82931da.2     rhel-8-for-x86_64-appstream-rpms           1.4 M
Installing dependencies:
 redhat-logos-httpd           noarch             84.5-2.el8                                     rhel-8-for-x86_64-baseos-rpms               29 k
 nginx-filesystem             noarch             1:1.14.1-9.module+el8.0.0+4108+af250afe        rhel-8-for-x86_64-appstream-rpms            24 k
 php-cli                      x86_64             7.2.24-1.module+el8.2.0+4601+7c76a223          rhel-8-for-x86_64-appstream-rpms           3.1 M
 php-common                   x86_64             7.2.24-1.module+el8.2.0+4601+7c76a223          rhel-8-for-x86_64-appstream-rpms           662 k
 apr                          x86_64             1.6.3-12.el8                                   rhel-8-for-x86_64-appstream-rpms           130 k
 apr-util                     x86_64             1.6.1-9.el8                                    rhel-8-for-x86_64-appstream-rpms           106 k
 mod_http2                    x86_64             1.15.7-10.module+el8.10.0+21653+eaff63f0       rhel-8-for-x86_64-appstream-rpms           156 k
 httpd-filesystem             noarch             2.4.37-65.module+el8.10.0+22196+d82931da.2     rhel-8-for-x86_64-appstream-rpms            45 k
 httpd-tools                  x86_64             2.4.37-65.module+el8.10.0+22196+d82931da.2     rhel-8-for-x86_64-appstream-rpms           112 k
Installing weak dependencies:
 apr-util-bdb                 x86_64             1.6.1-9.el8                                    rhel-8-for-x86_64-appstream-rpms            25 k
 apr-util-openssl             x86_64             1.6.1-9.el8                                    rhel-8-for-x86_64-appstream-rpms            27 k
Enabling module streams:
 httpd                                           2.4
 nginx                                           1.14
 php                                             7.2

Transaction Summary
================================================================================================================================================
Install  21 Packages

Total download size: 10 M
Installed size: 34 M
Is this ok [y/N]: y
```

→ Start, Enable and check status of httpd.service

systemctl start httpd

systemctl enable httpd

systemctl status httpd

```
[root@surya ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
  Drop-In: /usr/lib/systemd/system/httpd.service.d
           └─php-fpm.conf
   Active: active (running) since Tue 2024-10-01 22:34:05 PDT; 15min ago
     Docs: man:httpd.service(8)
 Main PID: 1225 (httpd)
   Status: "Running, listening on: port 80"
    Tasks: 213 (limit: 11355)
   Memory: 46.7M
   CGroup: /system.slice/httpd.service
           ├─1225 /usr/sbin/httpd -DFOREGROUND
           ├─1313 /usr/sbin/httpd -DFOREGROUND
           ├─1321 /usr/sbin/httpd -DFOREGROUND
           ├─1332 /usr/sbin/httpd -DFOREGROUND
           └─1346 /usr/sbin/httpd -DFOREGROUND

Oct 01 22:34:02 surya.in systemd[1]: Starting The Apache HTTP Server...
Oct 01 22:34:05 surya.in systemd[1]: Started The Apache HTTP Server.
Oct 01 22:34:06 surya.in httpd[1225]: Server configured, listening on: port 80
```

→ Start, Enable and check status of php-fpm

systemctl start php-fpm

systemctl enable php-fpm

systemctl status php-fpm

```
[root@surya ~]# systemctl status php-fpm
● php-fpm.service - The PHP FastCGI Process Manager
   Loaded: loaded (/usr/lib/systemd/system/php-fpm.service; enabled; vendor preset: disabled)
   Active: active (running) since Tue 2024-10-01 22:54:19 PDT; 10s ago
 Main PID: 3011 (php-fpm)
   Status: "Processes active: 0, idle: 5, Requests: 0, slow: 0, Traffic: 0req/sec"
    Tasks: 6 (limit: 11355)
   Memory: 22.1M
   CGroup: /system.slice/php-fpm.service
           ├─3011 php-fpm: master process (/etc/php-fpm.conf)
           ├─3013 php-fpm: pool www
           ├─3014 php-fpm: pool www
           ├─3015 php-fpm: pool www
           ├─3016 php-fpm: pool www
           └─3017 php-fpm: pool www

Oct 01 22:54:19 surya.in systemd[1]: Stopped The PHP FastCGI Process Manager.
Oct 01 22:54:19 surya.in systemd[1]: Starting The PHP FastCGI Process Manager...
Oct 01 22:54:19 surya.in systemd[1]: Started The PHP FastCGI Process Manager.
```

→ Install MariaDB database and library by below command

dnf install mariadb mariadb-server mariadb-devel

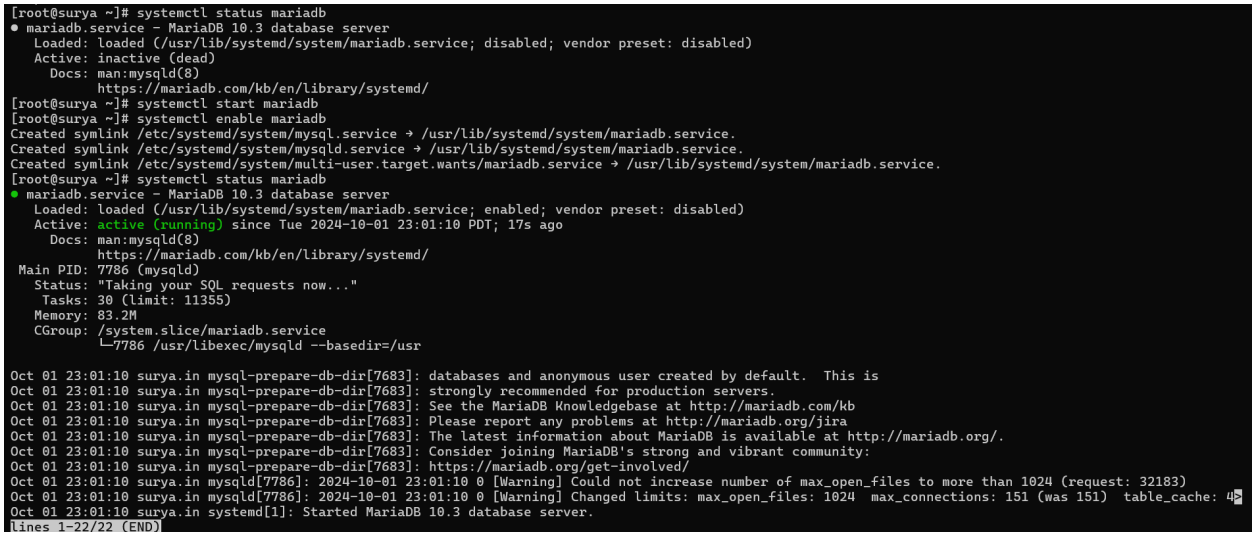
```
[root@surya ~]# dnf install mariadb mariadb-server mariadb-devel
Updating Subscription Management repositories.
This system is registered to Red Hat Subscription Management, but is not receiving updates. You can use subscription-manager to assign subscriptions.
Last metadata expiration check: 0:13:25 ago on Tue 01 Oct 2024 10:44:55 PM PDT.
Dependencies resolved.
================================================================================================================================================
 Package                          Architecture     Version                                          Repository                                 Size
================================================================================================================================================
Installing:
 mariadb                          x86_64           3:10.3.39-1.module+el8.8.0+19673+72b0d35f        rhel-8-for-x86_64-appstream-rpms          6.0 M
 mariadb-devel                    x86_64           3:10.3.39-1.module+el8.8.0+19673+72b0d35f        rhel-8-for-x86_64-appstream-rpms          1.1 M
 mariadb-server                   x86_64           3:10.3.39-1.module+el8.8.0+19673+72b0d35f        rhel-8-for-x86_64-appstream-rpms           16 M
Installing dependencies:
 keyutils-libs-devel              x86_64           1.5.10-6.el8                                     rhel-8-for-x86_64-baseos-rpms              48 k
 pcre2-devel                      x86_64           10.32-1.el8                                      rhel-8-for-x86_64-baseos-rpms             605 k
 perl-Data-Dumper                 x86_64           2.167-399.el8                                    rhel-8-for-x86_64-baseos-rpms              58 k
 perl-Encode                      x86_64           4:2.97-3.el8                                     rhel-8-for-x86_64-baseos-rpms             1.5 M
 perl-MIME-Base64                 x86_64           3.15-396.el8                                     rhel-8-for-x86_64-baseos-rpms              31 k
 libverto-devel                   x86_64           0.3.0-5.el8                                      rhel-8-for-x86_64-baseos-rpms              18 k
 pcre2-utf16                      x86_64           10.32-1.el8                                      rhel-8-for-x86_64-baseos-rpms             229 k
 pcre2-utf32                      x86_64           10.32-1.el8                                      rhel-8-for-x86_64-baseos-rpms             220 k
 perl-File-Temp                   noarch           0.230.600-1.el8                                  rhel-8-for-x86_64-baseos-rpms              63 k
 perl-Getopt-Long                 noarch           1:2.50-4.el8                                     rhel-8-for-x86_64-baseos-rpms              63 k
 perl-Pod-Escapes                 noarch           1:1.07-395.el8                                   rhel-8-for-x86_64-baseos-rpms              20 k
 perl-Pod-Perldoc                 noarch           3.28-396.el8                                     rhel-8-for-x86_64-baseos-rpms              88 k
 perl-Pod-Simple                  noarch           1:3.35-395.el8                                   rhel-8-for-x86_64-baseos-rpms             213 k
 perl-Pod-Usage                   noarch           4:1.69-395.el8                                   rhel-8-for-x86_64-baseos-rpms              34 k
 perl-Storable                    x86_64           1:3.11-3.el8                                     rhel-8-for-x86_64-baseos-rpms              98 k
 perl-Term-ANSIColor              noarch           4.06-396.el8                                     rhel-8-for-x86_64-baseos-rpms              46 k
 perl-Term-Cap                    noarch           1.17-395.el8                                     rhel-8-for-x86_64-baseos-rpms              23 k
 perl-Text-ParseWords             noarch           3.30-395.el8                                     rhel-8-for-x86_64-baseos-rpms              18 k
 perl-Time-Local                  noarch           1:1.280-1.el8                                    rhel-8-for-x86_64-baseos-rpms              34 k
 perl-podlators                   noarch           4.11-1.el8                                       rhel-8-for-x86_64-baseos-rpms             118 k
 zlib-devel                       x86_64           1.2.11-10.el8                                    rhel-8-for-x86_64-baseos-rpms              56 k
 krb5-devel                       x86_64           1.17-9.el8                                       rhel-8-for-x86_64-baseos-rpms             549 k
 libcom_err-devel                 x86_64           1.44.6-3.el8                                     rhel-8-for-x86_64-baseos-rpms              38 k
 libkadm5                         x86_64           1.17-9.el8                                       rhel-8-for-x86_64-baseos-rpms             184 k
 libselinux-devel                 x86_64           2.9-2.1.el8                                      rhel-8-for-x86_64-baseos-rpms             199 k
 perl-Math-BigInt                 noarch           1:1.9998.11-7.el8                                rhel-8-for-x86_64-baseos-rpms             196 k
 libsepol-devel                   x86_64           2.9-1.el8                                        rhel-8-for-x86_64-baseos-rpms              86 k
 openssl-devel                    x86_64           1:1.1.1c-2.el8                                   rhel-8-for-x86_64-baseos-rpms             2.3 M
```

→ Start, Enable and check status of mariadb.service

systemctl start mariadb.service

systemctl enable mariadb.service

systemctl status mariadb.service



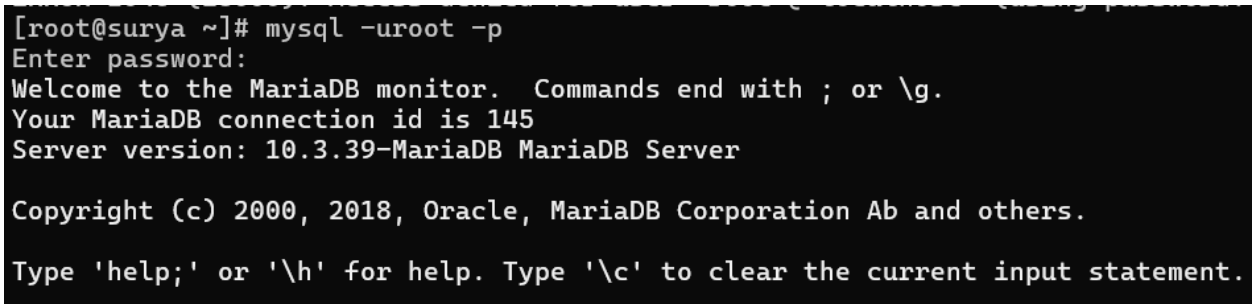
→ Once the MariaDB database server is up and running, you need to secure it by running the 'mysql_secure_installation' script which helps you to implement some useful security recommendations such as removing anonymous users, disabling root login remotely, removing test database and access to it, and applying all changes.

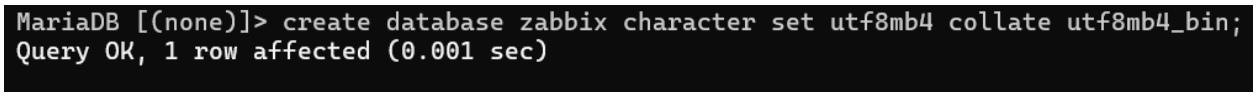
mysql_secure_installation

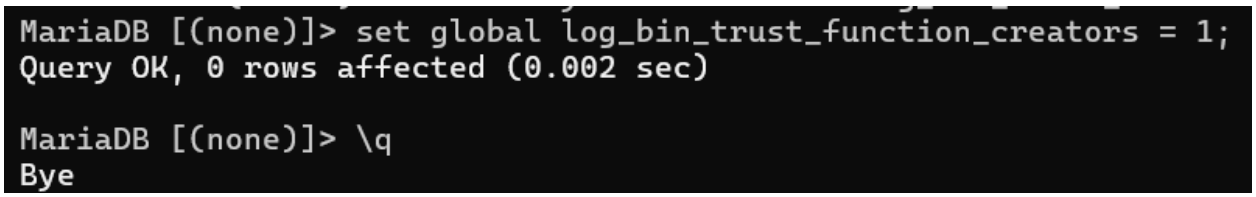
```
[root@tecmint yum.repos.d]# mysql_secure_installation

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
      SERVERS IN PRODUCTION USE!  PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user.  If you've just installed MariaDB, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MariaDB
root user without the proper authorisation.

Set root password? [Y/n] y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
 ... Success!


By default, a MariaDB installation has an anonymous user, allowing anyone
to log into MariaDB without having to have a user account created for
them.  This is intended only for testing, and to make the installation
go a bit smoother.  You should remove them before moving into a
production environment.

Remove anonymous users? [Y/n] y
 ... Success!

Normally, root should only be allowed to connect from 'localhost'.  This
ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? [Y/n] y
 ... Success!

By default, MariaDB comes with a database named 'test' that anyone can
access.  This is also intended only for testing, and should be removed
before moving into a production environment.

Remove test database and access to it? [Y/n] y
 - Dropping test database...
 ... Success!
 - Removing privileges on test database...
 ... Success!

Reloading the privilege tables will ensure that all changes made so far
will take effect immediately.

Reload privilege tables now? [Y/n] y
 ... Success!

Cleaning up...

All done!  If you've completed all of the above steps, your MariaDB
installation should now be secure.

Thanks for using MariaDB!
[root@tecmint yum.repos.d]#
```

→ Now log in to the database to gain access to the MariaDB shell to create a database for Zabbix.

mysql -uroot -p
MariaDB [(none)]> create database zabbix character set utf8 collate utf8_bin;
MariaDB [(none)]> create user zabbix@localhost identified by 'surya01';
MariaDB [(none)]> grant all privileges on zabbix.* to zabbix@localhost;
MariaDB[(none)]> set global log_bin_trust_function_creators = 1;
MariaDB [(none)]> \q







→ Again connect the mysql database for disable log_bin_trust_function_creator option after importing database schema.
mysql -u root -p
MariaDB [(none)]> set global log_bin_trust_function_creators = 0;
MariaDB [(none)]> quit;

```
[root@surya ~]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 299
Server version: 10.3.39-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> set global log_bin_trust_function_creators = 0;
Query OK, 0 rows affected (0.000 sec)

MariaDB [(none)]> quit;
Bye
[root@surya ~]#
```

→ Download the zabbix package from zabbix official site by below command
rpm -Uvh
https://repo.zabbix.com/zabbix/4.2/rhel/8/x86_64/zabbix-release-4.2-2.el8.noarch.rpm

```
[root@surya ~]# rpm -Uvh https://repo.zabbix.com/zabbix/4.2/rhel/8/x86_64/zabbix-release-4.2-2.el8.noarch.rpm
Retrieving https://repo.zabbix.com/zabbix/4.2/rhel/8/x86_64/zabbix-release-4.2-2.el8.noarch.rpm
warning: /var/tmp/rpm-tmp.PF4jx3: Header V4 RSA/SHA512 Signature, key ID a14fe591: NOKEY
Verifying...                          ################################# [100%]
Preparing...                          ################################# [100%]
Updating / installing...
   1:zabbix-release-4.2-2.el8         ################################# [100%]
[root@surya ~]#
```

→ Clean local cache ‘or’ remove corrupted package.
dnf clean all

```
[root@surya ~]# dnf clean all
Updating Subscription Management repositories.
This system is registered to Red Hat Subscription Management, but is not receiving updates. You can use subscription-manager to assign subscriptions.
27 files removed
[root@surya ~]#
```

→ Now install the Zabbix server, web frontend, agent packages
dnf install zabbix-server-mysql zabbix-web-mysql zabbix-agent -y

```
[root@surya ~]# dnf install zabbix-server-mysql zabbix-web-mysql zabbix-agent -y
Updating Subscription Management repositories.
This system is registered to Red Hat Subscription Management, but is not receiving updates. You can use subscription-manager to assign subscriptions.
Extra Packages for Enterprise Linux 8 - x86_64                                  1.0 MB/s |  14 MB     00:13
Red Hat Enterprise Linux 8 for x86_64 - BaseOS (RPMs)                           3.4 MB/s |  74 MB     00:21
Red Hat Enterprise Linux 8 for x86_64 - AppStream (RPMs)                        3.4 MB/s |  67 MB     00:19
Zabbix Official Repository - x86_64                                              34 kB/s |  46 kB     00:01
Zabbix Official Repository non-supported - x86_64                               922  B/s | 1.4 kB     00:01
Last metadata expiration check: 0:00:01 ago on Tue 01 Oct 2024 11:57:47 PM PDT.
Dependencies resolved.
================================================================================================================================================
 Package                        Architecture       Version                                  Repository                                    Size
================================================================================================================================================
Installing:
 zabbix-agent                   x86_64             4.2.8-1.el8                              zabbix                                       429 k
 zabbix-server-mysql            x86_64             4.2.8-1.el8                              zabbix                                       2.4 M
 zabbix-web-mysql               noarch             4.2.8-1.el8                              zabbix                                        13 k
Installing dependencies:
 OpenIPMI-libs                  x86_64             2.0.31-3.el8                             rhel-8-for-x86_64-baseos-rpms                509 k
 unixODBC                       x86_64             2.3.7-1.el8                              rhel-8-for-x86_64-appstream-rpms             458 k
 libssh2                        x86_64             1.8.0-8.module+el8.0.0+4084+cceb9f44.1   rhel-8-for-x86_64-appstream-rpms              99 k
 mysql-common                   x86_64             8.0.36-1.module+el8.9.0+21207+6c20cb3d   rhel-8-for-x86_64-appstream-rpms             137 k
 mysql-libs                     x86_64             8.0.36-1.module+el8.9.0+21207+6c20cb3d   rhel-8-for-x86_64-appstream-rpms             1.5 M
 zabbix-web                     noarch             4.2.8-1.el8                              zabbix                                       2.8 M
 fping                          x86_64             5.1-1.el8                                zabbix-non-supported                          37 k
Enabling module streams:
 mysql                                             8.0

Transaction Summary
================================================================================================================================================
Install  10 Packages

Total download size: 8.3 M
Installed size: 36 M
Downloading Packages:
(1/10): unixODBC-2.3.7-1.el8.x86_64.rpm                                         889 kB/s | 458 kB     00:00
(2/10): libssh2-1.8.0-8.module+el8.0.0+4084+cceb9f44.1.x86_64.rpm               188 kB/s |  99 kB     00:00
(3/10): OpenIPMI-libs-2.0.31-3.el8.x86_64.rpm                                   905 kB/s | 509 kB     00:00
(4/10): mysql-common-8.0.36-1.module+el8.9.0+21207+6c20cb3d.x86_64.rpm          417 kB/s | 137 kB     00:00
(5/10): mysql-libs-8.0.36-1.module+el8.9.0+21207+6c20cb3d.x86_64.rpm            2.0 MB/s | 1.5 MB     00:00
(6/10): zabbix-agent-4.2.8-1.el8.x86_64.rpm                                      90 kB/s | 429 kB     00:04
```

→ Now zabbix installation is finished, Now we will import initial schema and data into the zabbix database which we created previously by enter the zabbix database user's password.
zcat /usr/share/doc/zabbix-server-mysql/create.sql.gz | mysql --default-character-set=utf8mb4 -uzabbix -p zabbix

```
[root@surya ~]# zcat /usr/share/doc/zabbix-server-mysql/create.sql.gz | mysql --default-character-set=utf8mb4 -uzabbix -p zabbix
Enter password:
[root@surya ~]#
```

→ Now configure the zabbix server file and configure like below
# nano /etc/zabbix/zabbix_server.conf
DBHost=localhost
DBName=zabbix
DBUser=zabbix
DBPassword=surya01

```
DBHost=localhost

### Option: DBName
#       Database name.
#
# Mandatory: yes
# Default:
# DBName=

DBName=zabbix

### Option: DBSchema
#       Schema name. Used for IBM DB2 and PostgreSQL.
#
# Mandatory: no
# Default:
# DBSchema=

### Option: DBUser
#       Database user.
#
# Mandatory: no
# Default:
# DBUser=

DBUser=zabbix

### Option: DBPassword
#       Database password.
#       Comment this line if no password is used.
#
# Mandatory: no
# Default:
DBPassword=surya01

### Option: DBSocket

^G Get Help      ^O Write Out     ^W Where Is      ^K Cut Text
^X Exit          ^R Read File     ^\ Replace       ^U Uncut Text
```

→ Configure the php configuration file for zabbix frontend
nano /etc/php-fpm.d/zabbix.conf

```
[zabbix]
user = apache
group = apache

listen = /run/php-fpm/zabbix.sock
listen.acl_users = apache,nginx
listen.allowed_clients = 127.0.0.1

pm = dynamic
pm.max_children = 50
pm.start_servers = 5
pm.min_spare_servers = 5
pm.max_spare_servers = 35

php_value[session.save_handler] = files
php_value[session.save_path]    = /var/lib/php/session

php_value[max_execution_time] = 300
php_value[memory_limit] = 128M
php_value[post_max_size] = 16M
php_value[upload_max_filesize] = 2M
php_value[max_input_time] = 300
php_value[max_input_vars] = 10000
; php_value[date.timezone] = Europe/Riga
```

Uncomment last line by removing ‘;’ this and set your timezone like below

```
[zabbix]
user = apache
group = apache

listen = /run/php-fpm/zabbix.sock
listen.acl_users = apache,nginx
listen.allowed_clients = 127.0.0.1

pm = dynamic
pm.max_children = 50
pm.start_servers = 5
pm.min_spare_servers = 5
pm.max_spare_servers = 35

php_value[session.save_handler] = files
php_value[session.save_path]    = /var/lib/php/session

php_value[max_execution_time] = 300
php_value[memory_limit] = 128M
php_value[post_max_size] = 16M
php_value[upload_max_filesize] = 2M
php_value[max_input_time] = 300
php_value[max_input_vars] = 10000
php_value[date.timezone] = Asia/Kolkata
```

→ Now restart the http and php by following command
systemctl restart httpd php-fpm

```
[root@surya php-fpm.d]# systemctl restart httpd php-fpm
[root@surya php-fpm.d]#
```

→ Restart the zabbix server and zabbix agent
systemctl start zabbix-server zabbix-agent

```
[root@surya php-fpm.d]# systemctl start zabbix-server zabbix-agent
[root@surya php-fpm.d]#
```

→ Check status of zabbix-server
systemctl status zabbix-server

```
[root@surya ~]# systemctl status zabbix-server.service
● zabbix-server.service - Zabbix Server
     Loaded: loaded (/usr/lib/systemd/system/zabbix-server.service; enabled; vendor preset: disabled)
     Active: active (running) since Wed 2024-10-02 02:26:30 PDT; 32s ago
    Process: 14431 ExecStop=/bin/kill -SIGTERM $MAINPID (code=exited, status=0/SUCCESS)
    Process: 14439 ExecStart=/usr/sbin/zabbix_server -c $CONFFILE (code=exited, status=0/SUCCESS)
   Main PID: 14442 (zabbix_server)
      Tasks: 37 (limit: 11355)
     Memory: 38.5M
     CGroup: /system.slice/zabbix-server.service
             ├─14442 /usr/sbin/zabbix_server -c /etc/zabbix/zabbix_server.conf
             ├─14450 /usr/sbin/zabbix_server: configuration syncer [waiting 60 sec for processes]
             ├─14451 /usr/sbin/zabbix_server: housekeeper [startup idle for 30 minutes]
             ├─14452 /usr/sbin/zabbix_server: timer #1 [updated 0 hosts, suppressed 0 events in 0.000332 sec, idle 59 sec
             ├─14453 /usr/sbin/zabbix_server: http poller #1 [got 0 values in 0.000347 sec, idle 5 sec]
             ├─14454 /usr/sbin/zabbix_server: discoverer #1 [processed 0 rules in 0.000296 sec, idle 60 sec]
             ├─14455 /usr/sbin/zabbix_server: history syncer #1 [processed 0 values, 0 triggers in 0.000043 sec, idle 1 s
             ├─14456 /usr/sbin/zabbix_server: history syncer #2 [processed 0 values, 0 triggers in 0.000024 sec, idle 1 s
             ├─14457 /usr/sbin/zabbix_server: history syncer #3 [processed 0 values, 0 triggers in 0.000045 sec, idle 1 s
             ├─14458 /usr/sbin/zabbix_server: history syncer #4 [processed 0 values, 0 triggers in 0.000017 sec, idle 1 s
             ├─14459 /usr/sbin/zabbix_server: escalator #1 [processed 0 escalations in 0.000540 sec, idle 3 sec]
             ├─14460 /usr/sbin/zabbix_server: proxy poller #1 [exchanged data with 0 proxies in 0.000018 sec, idle 5 sec]
             ├─14461 /usr/sbin/zabbix_server: self-monitoring [processed data in 0.000072 sec, idle 1 sec]
             ├─14462 /usr/sbin/zabbix_server: task manager [processed 0 task(s) in 0.000240 sec, idle 5 sec]
             ├─14463 /usr/sbin/zabbix_server: poller #1 [got 1 values in 0.000435 sec, idle 5 sec]
             ├─14464 /usr/sbin/zabbix_server: poller #2 [got 0 values in 0.000042 sec, idle 5 sec]
             ├─14465 /usr/sbin/zabbix_server: poller #3 [got 0 values in 0.000016 sec, idle 5 sec]
             ├─14466 /usr/sbin/zabbix_server: poller #4 [got 0 values in 0.000060 sec, idle 5 sec]
             ├─14467 /usr/sbin/zabbix_server: poller #5 [got 0 values in 0.000010 sec, idle 5 sec]
             ├─14468 /usr/sbin/zabbix_server: unreachable poller #1 [got 0 values in 0.000031 sec, idle 5 sec]
             ├─14469 /usr/sbin/zabbix_server: trapper #1 [processed data in 0.000000 sec, waiting for connection]
             ├─14470 /usr/sbin/zabbix_server: trapper #2 [processed data in 0.000000 sec, waiting for connection]
             ├─14471 /usr/sbin/zabbix_server: trapper #3 [processed data in 0.000000 sec, waiting for connection]
             ├─14472 /usr/sbin/zabbix_server: trapper #4 [processed data in 0.000000 sec, waiting for connection]
             ├─14473 /usr/sbin/zabbix_server: trapper #5 [processed data in 0.000000 sec, waiting for connection]
             ├─14474 /usr/sbin/zabbix_server: icmp pinger #1 [got 0 values in 0.000037 sec, idle 5 sec]
             ├─14475 /usr/sbin/zabbix_server: alert manager #1 [sent 0, failed 0 alerts, idle 5.011408 sec during 5.01161
             ├─14476 /usr/sbin/zabbix_server: alerter #1 started
             ├─14477 /usr/sbin/zabbix_server: alerter #2 started
             ├─14478 /usr/sbin/zabbix_server: alerter #3 started
             ├─14479 /usr/sbin/zabbix_server: preprocessing manager #1 [queued 0, processed 6 values, idle 5.003129 sec d
```

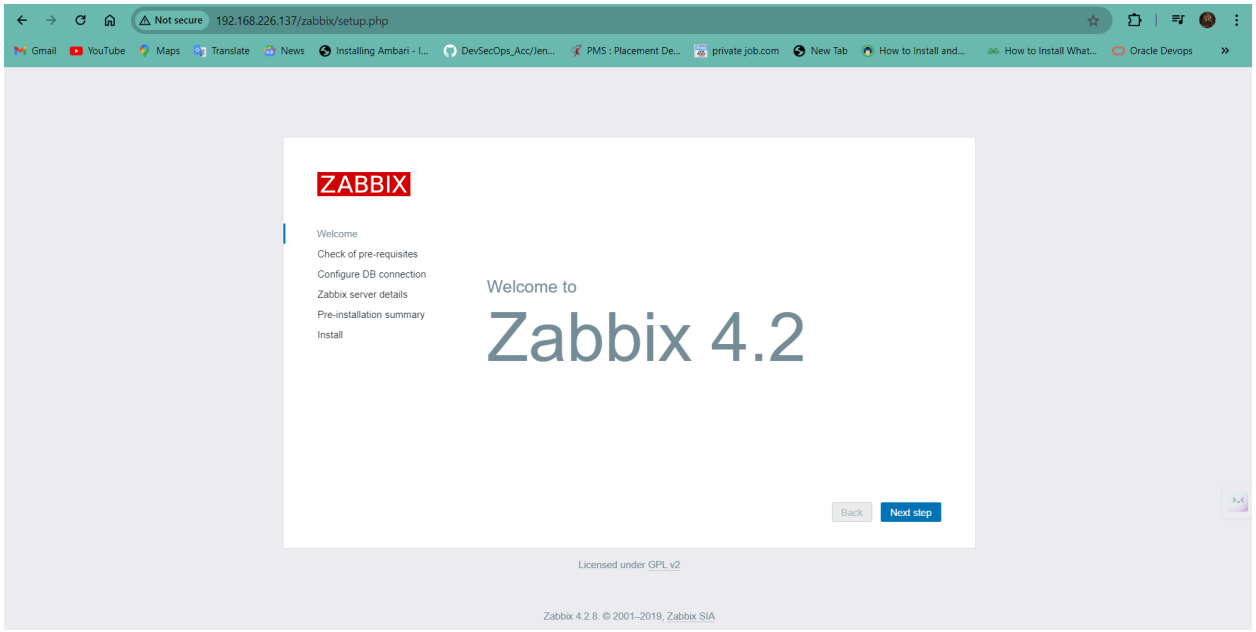
→ Check status of zabbix-server

systemctl status zabbix-agent.service

```
[root@surya ~]# systemctl status zabbix-agent.service
● zabbix-agent.service - Zabbix Agent
     Loaded: loaded (/usr/lib/systemd/system/zabbix-agent.service; disabled; vendor preset: disabled)
     Active: active (running) since Wed 2024-10-02 02:26:30 PDT; 1min 58s ago
    Process: 14432 ExecStop=/bin/kill -SIGTERM $MAINPID (code=exited, status=0/SUCCESS)
    Process: 14434 ExecStart=/usr/sbin/zabbix_agentd -c $CONFFILE (code=exited, status=0/SUCCESS)
   Main PID: 14443 (zabbix_agentd)
      Tasks: 6 (limit: 11355)
     Memory: 4.8M
     CGroup: /system.slice/zabbix-agent.service
             ├─14443 /usr/sbin/zabbix_agentd -c /etc/zabbix/zabbix_agentd.conf
             ├─14444 /usr/sbin/zabbix_agentd: collector [idle 1 sec]
             ├─14445 /usr/sbin/zabbix_agentd: listener #1 [waiting for connection]
             ├─14446 /usr/sbin/zabbix_agentd: listener #2 [waiting for connection]
             ├─14447 /usr/sbin/zabbix_agentd: listener #3 [waiting for connection]
             └─14448 /usr/sbin/zabbix_agentd: active checks #1 [idle 1 sec]

Oct 02 02:26:29 surya.in systemd[1]: Stopped Zabbix Agent.
Oct 02 02:26:29 surya.in systemd[1]: Starting Zabbix Agent...
Oct 02 02:26:30 surya.in systemd[1]: zabbix-agent.service: Can't open PID file /run/zabbix/zabbix_agentd.pid (yet?) after start: No such file or directory
Oct 02 02:26:30 surya.in systemd[1]: Started Zabbix Agent.
[root@surya ~]#
```

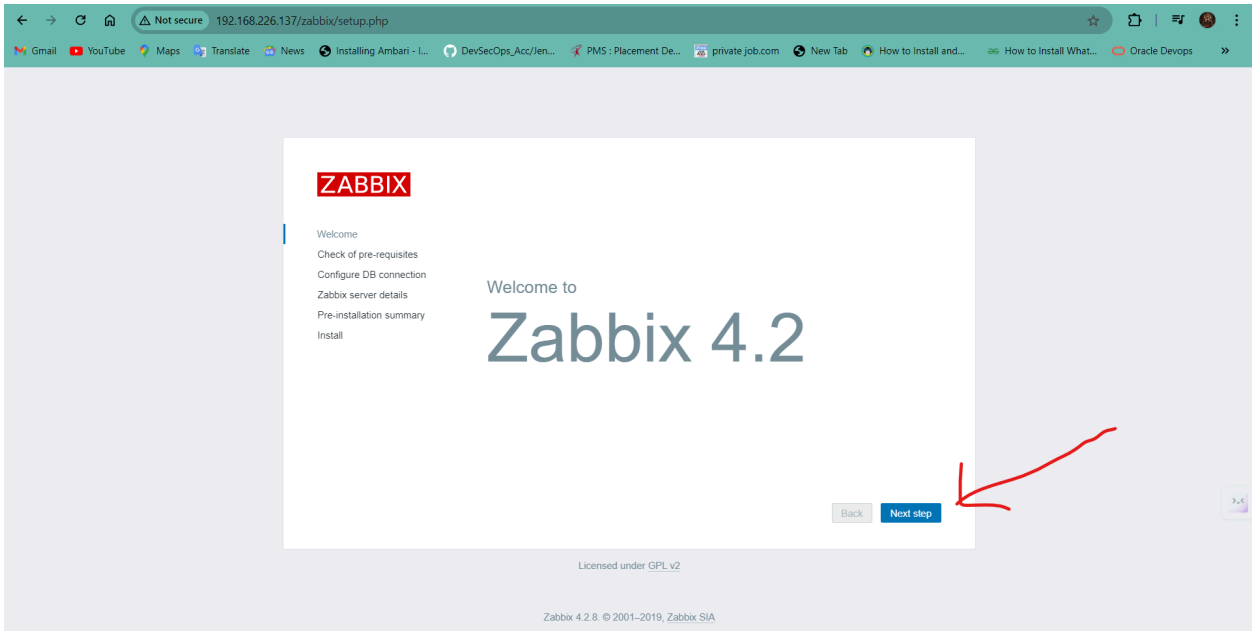
→ Now login on browser by providing server IP

http://192.168.226.137/zabbix

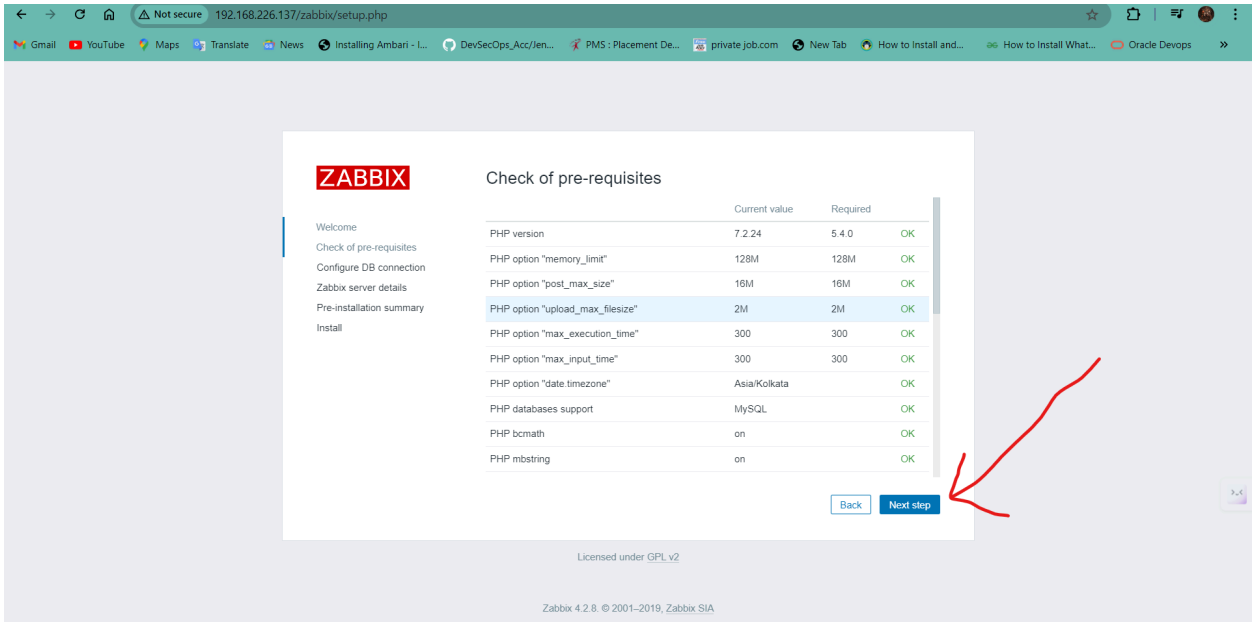


Zabbix server is successfully completed.

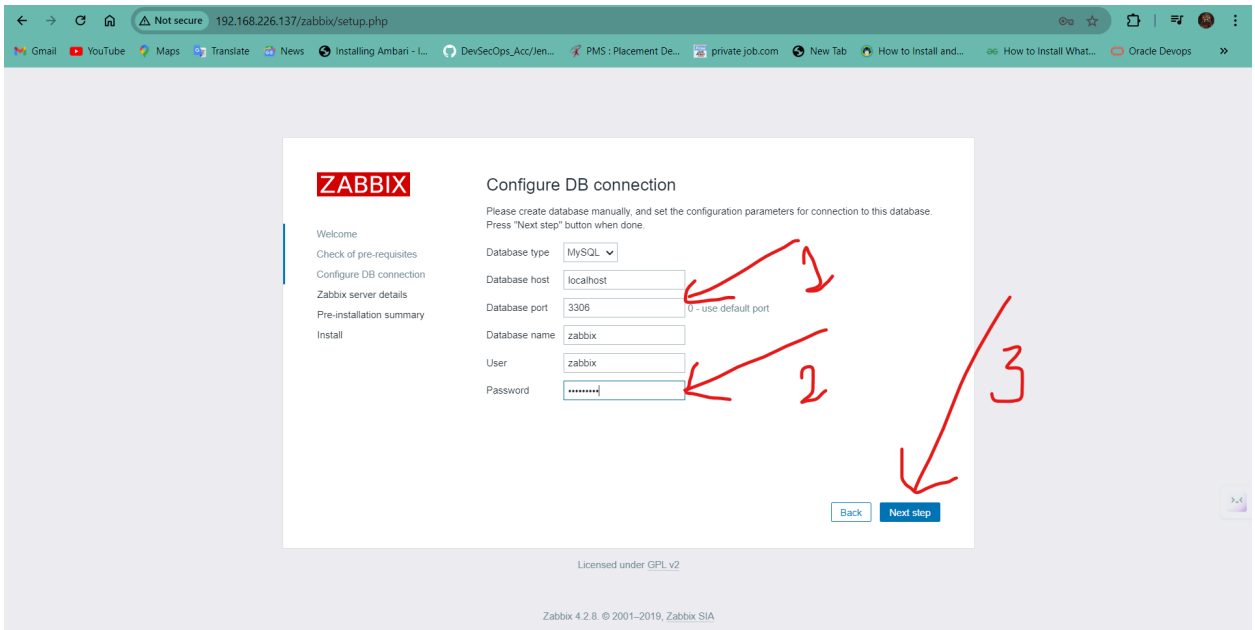
→ Now configure the server by UI.
Click ‘next step’ for go ahead.



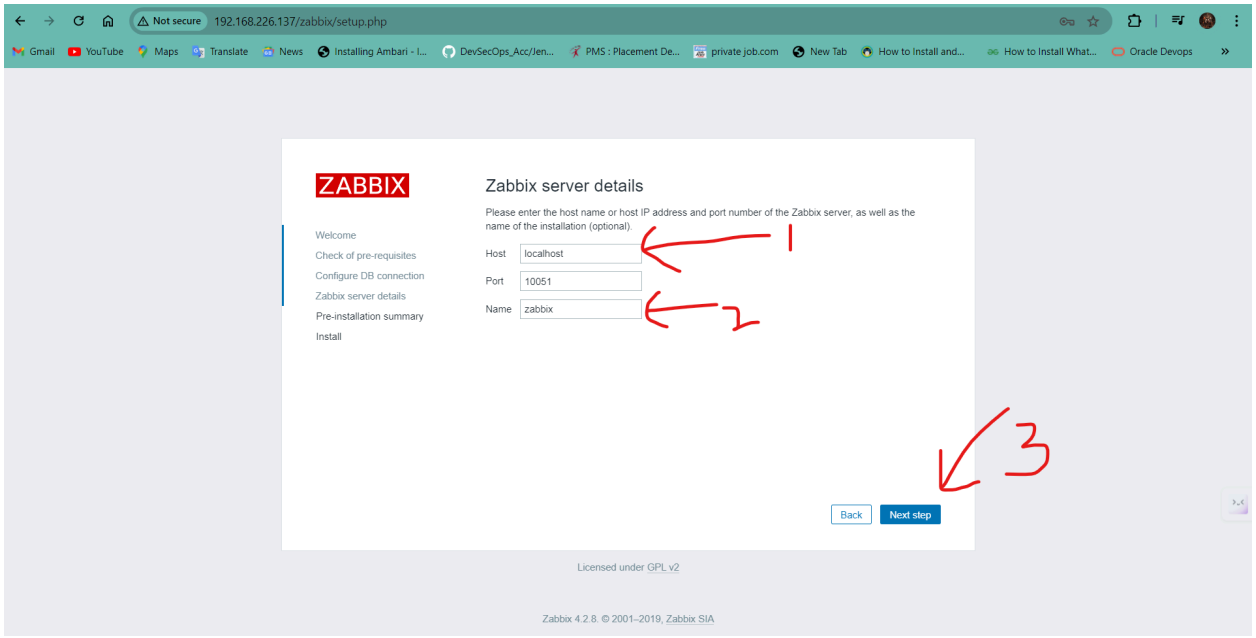
Once check all pre-requisite are ok then click next step



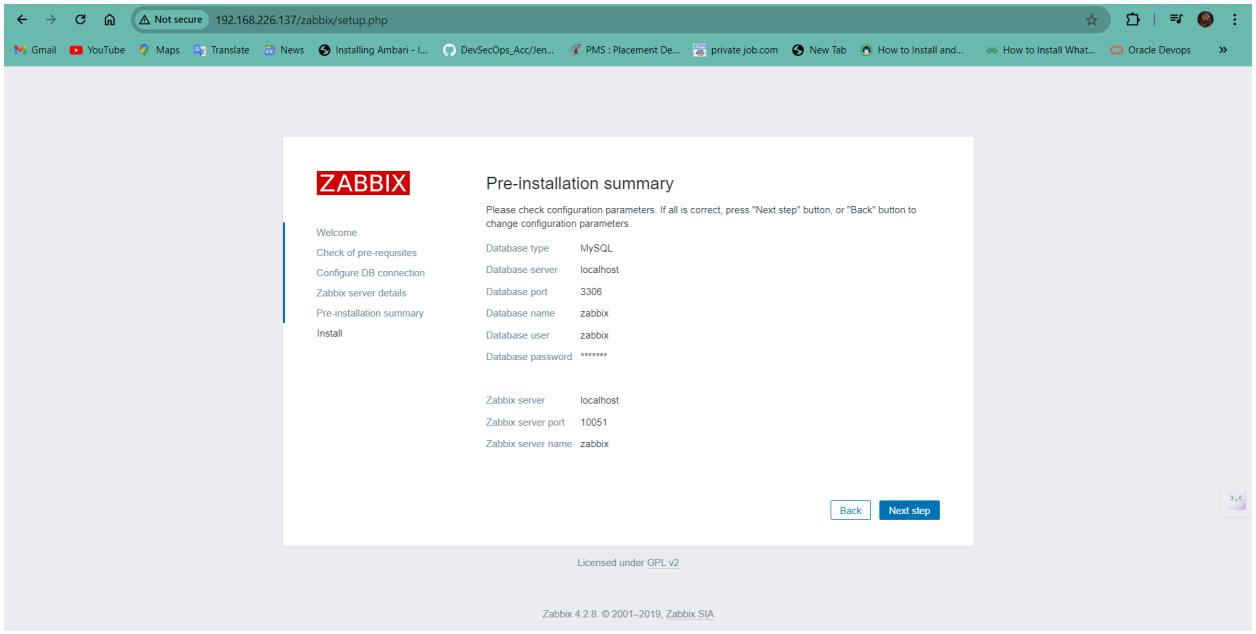
→ Here write the database port and provide the database password and click ‘next step’.



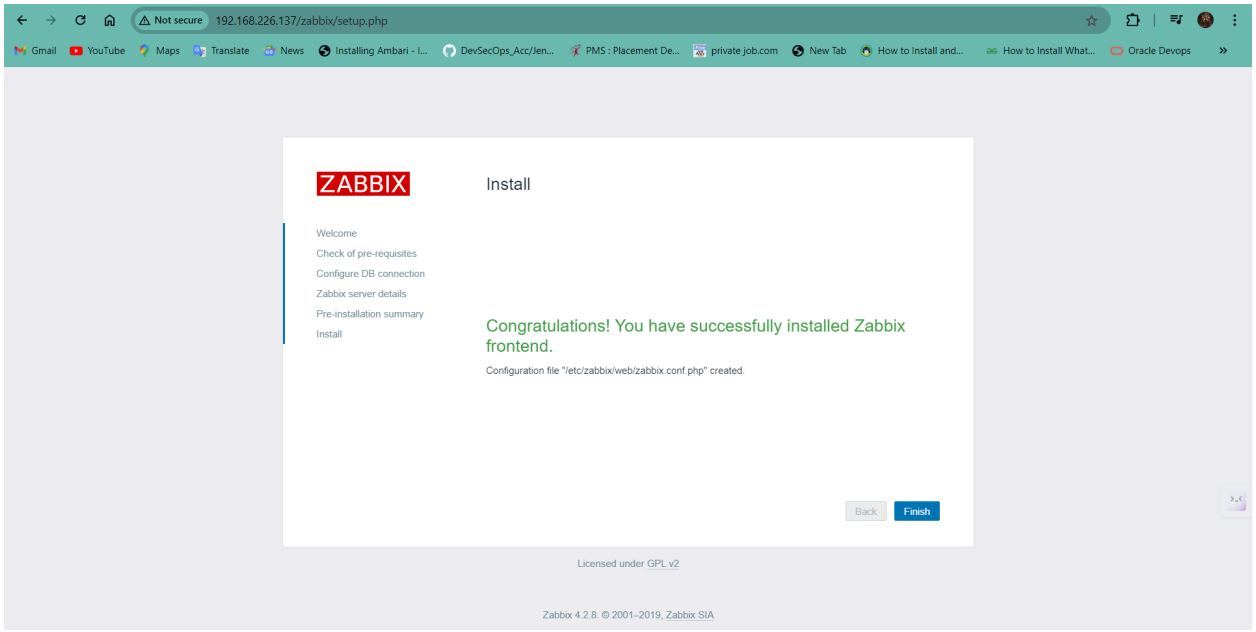
→ Now Enter the hostname and zabbix server_name then click ‘next step’.



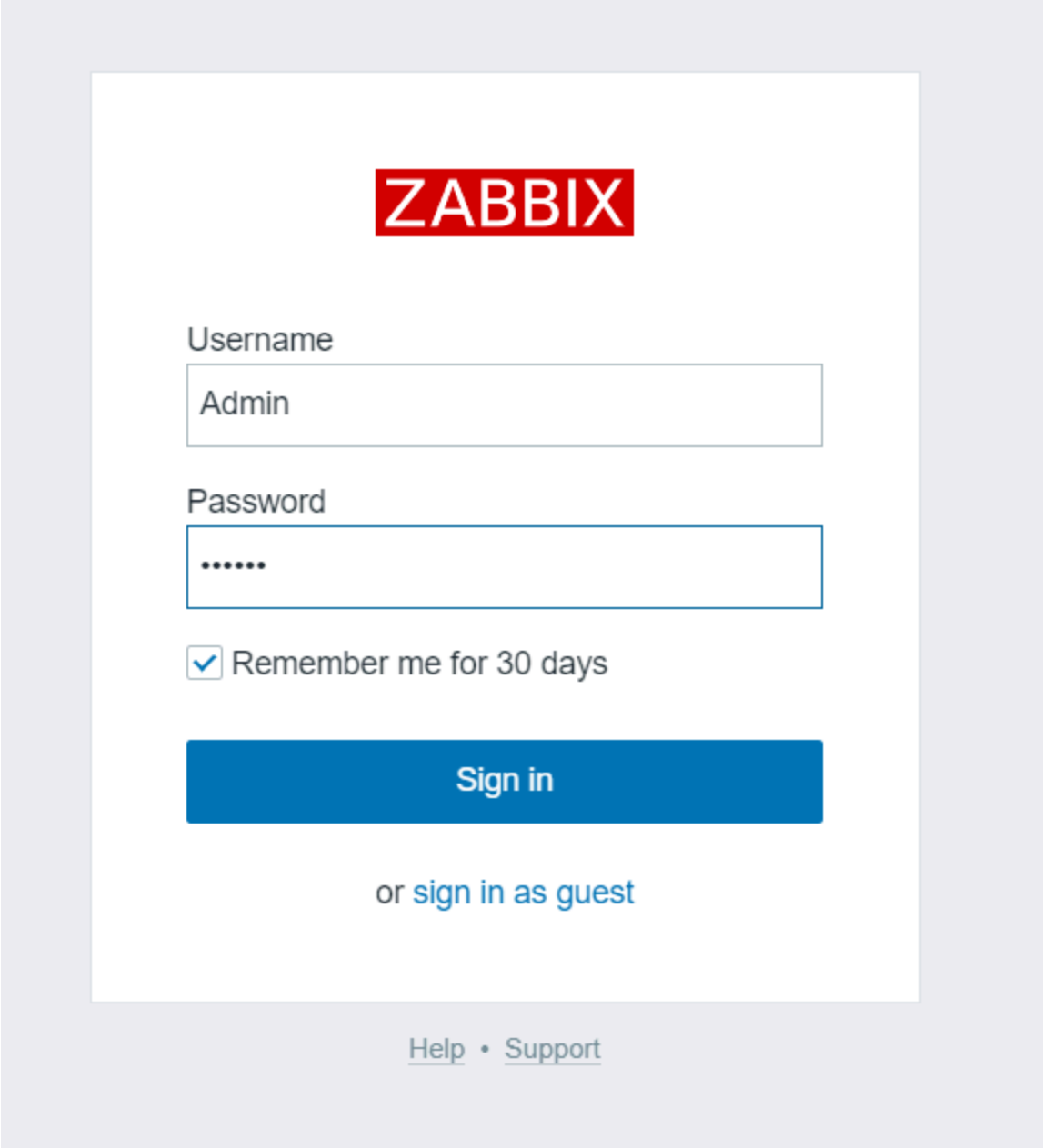
→ Now check the pre-installation summary, if it is ok then proceed by clicking ‘next step’.



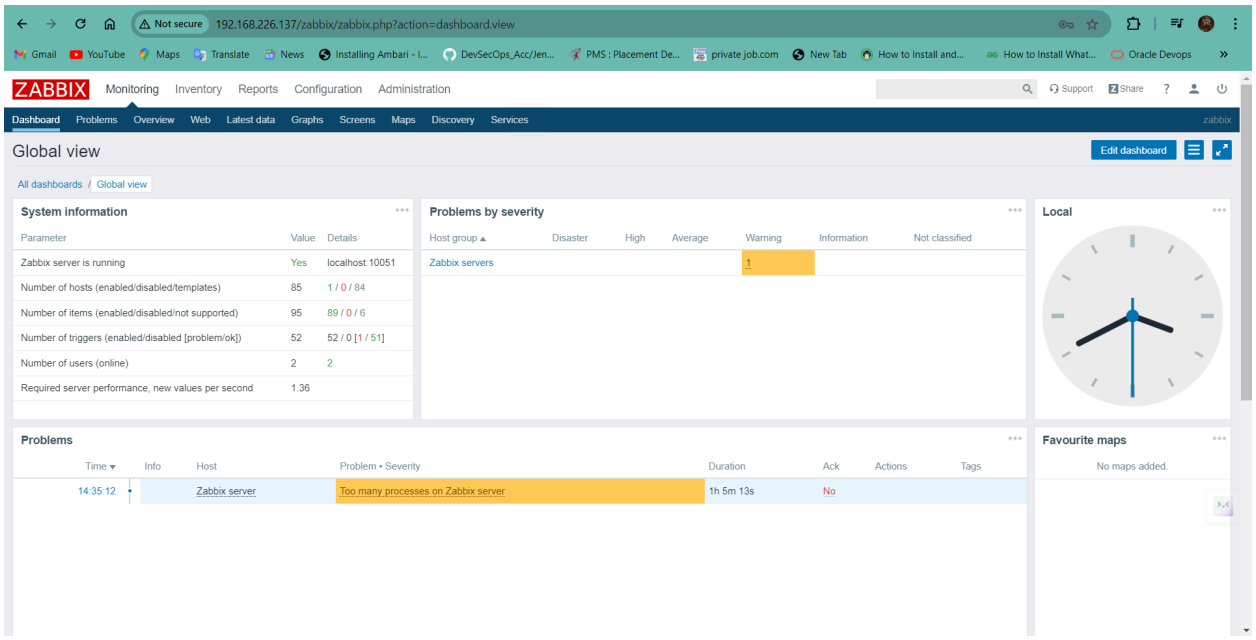
→ My zabbix server is successfully installed, Now let’s finish by click ‘finish’.



→ Now login it by enter Default user name and password.
Username - Admin
Password - zabbix



→ Finally Welcome to zabbix server Dashboard



THANK YOU

Suryadev Chaudhary