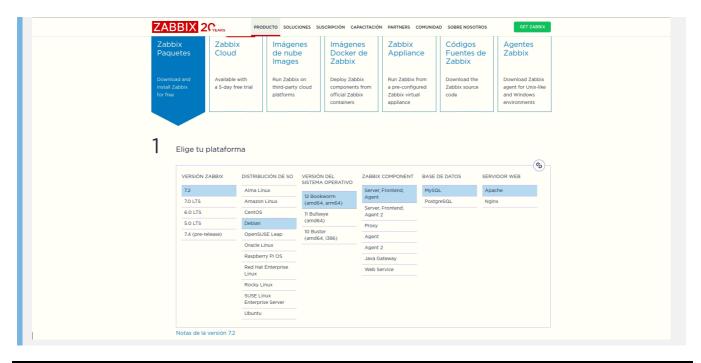
# 9. III Monitoratge Centralitzat amb Zabbix

## 1. Descàrrega de Zabbix

Per començar, accedim a la web oficial de Zabbix: https://www.zabbix.com

Una vegada dins, cal anar a l'apartat **Download Zabbix**, on seleccionarem:

- La **versió** desitjada (en aquest cas, la 7.2)
- El **sistema operatiu** (Debian 12)
- Els components (servidor, frontend, agent)
- El tipus de base de dades (MySQL/MariaDB)
- El servidor web (Apache)



### 2. Instal·lació i configuració del servidor Zabbix

### a. Instal·lació del repositori oficial

wget https://repo.zabbix.com/zabbix/7.2/release/debian/pool/main/z/zabbix-release/zabbix-release\_latest\_7.2+debian12\_all.deb dpkg -i zabbix-release\_latest\_7.2+debian12\_all.deb apt update

```
zabbisgzabbix:-5 wget https://repo.zabbix.com/zabbix/7.2/release/debian/pool/main/z/zabbix-release/latest_7.2+debian12_all.deb
--2025-05-14 07:44:20--- https://repo.zabbix.com/zabbix/7.2/release/debian/pool/main/z/zabbix-release/latest_7.2+debian12_all.deb
Resolving repo.zabbix.com (repo.zabbix.com)... 178.128.6.101, 2604:a880:2:d0:2062:d001
Connecting to repo.zabbix.com (repo.zabbix.com)... 178.128.6.101, 2604:a880:2:d0:2062:d001
Connecting to repo.zabbix.com (repo.zabbix.com)... 178.128.6.101; 443... connected.
HTTP request sent, awaiting response... 200 0K
Length: 7096 (6.9K) [application/orclet-stream]
Saving to: 'zabbix-release_latest_7.2+debian12_all.deb'
zabbix-release_latest_7.2+debian12_all.deb'
zabbix-release_latest_7.2+debian12_all.deb'
zabbix-release_latest_7.2+debian12_all.deb dysis = form: requested operation requires superuse privilege
zabbixgzabbix:-5 sudo dysis_1.2-dopatis_1.2-debian12_all.deb
gzabbixgzabbix:-5 sudo dysis_1.2-dopatis_1.2-debian12_all.deb
selecting previously unselected package zabbix-release.
Reading database ... 12079 files and directories currently installed.)
Preparing to unpack zabbix-release latest_7.2-debian12_all.deb ...
Unpacking zabbix-release (1:7.2-1-debian12) ...
Setting up zabbix-release (1:7.2-1
```

#### b. Instal·lació dels paquets principals

Instal·lem el servidor Zabbix, el frontend web amb Apache, els scripts SQL i l'agent:

apt install zabbix-server-mysql zabbix-frontend-php zabbix-apache-conf zabbix-sql-scripts zabbix-agent

```
zabbixgzabbix:-$ sudo apt install zabbix-server-mysql zabbix-frontend-php zabbix-apache-conf zabbix-sql-scripts zabbix-agent
Reading package lists... Done
Reading package lists... Done
Reading package lists... Done
The following additional packages will be installed:
    apache2 apache2-bin apache2-data apache2-utils fontconfig-config fonts-dejavu fonts-dejavu-core fonts-dejavu-extra fping
    libabsl2020623 libaban3 libapache2-mod-php libapache2-mod-php8.2 libapr1 libaprutil1 libaprutil1-idbd-sqlite3 libaprutil1-idap
    libavif15 libconfig-inifiles-perl libcurl3-injut1s libcurl4 libdav1d6 libdot-mariadb-perl libdoi-perl libor-perl libdoi-perl libor-perl libdoi-perl libdoi-perl libdoi-perl libor-perl libdoi-perl libor-perl libor-perl libdoi-perl libdoi-perl
```

#### c. Creació de la base de dades

Assegura't que el servidor de bases de dades (MariaDB o MySQL) està operatiu.

Accedim al client de MySQL per crear la base de dades i l'usuari:

```
mysql -uroot -p
```

```
CREATE DATABASE zabbix CHARACTER SET utf8mb4 COLLATE utf8mb4_bin;
CREATE USER zabbix@localhost IDENTIFIED BY 'password';
GRANT ALL PRIVILEGES ON zabbix.* TO zabbix@localhost;
SET GLOBAL log_bin_trust_function_creators = 1;
QUIT;
```

```
zabbix@zabbix:~$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.42 MySQL Community Server - GPL
Copyright (c) 2000, 2025, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> create database zabbix character set utf8mb4 collate utf8mb4 bin;
Query OK, 1 row affected (0.02 sec)
mysql> create user zabbix@localhost identified by 'zabbix';
Query OK, 0 rows affected (0.03 sec)
mysql> grant all privileges on zabbix.* to zabbix@localhost;
Query OK, 0 rows affected (0.02 sec)
mysql> set global log_bin_trust_function_creators = 1;
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql> quit;
Bye
zabbix@zabbix:~$
```

#### d. Importació de l'esquema de dades

Des del servidor Zabbix, importem l'esquema i les dades inicials:

```
zcat /usr/share/zabbix/sql-scripts/mysql/server.sql.gz | mysql --default-character-set=utf8mb4 -uzabbix -p zabbix
```

```
zabbix@zabbix:~$ zcat /usr/share/zabbix/sql-scripts/mysql/server.sql.gz | mysql --default-character-set=utf8mb4 -uzabbix -p zabbix
Enter password:
zabbix@zabbix:~$
```

Després, restaurem el valor per defecte de la directiva log\_bin\_trust\_function\_creators:

```
mysql -uroot -p
```

```
SET GLOBAL log_bin_trust_function_creators = 0;
QUIT;
```

```
zabbix@zabbix:~$ mysql -u root --password=Root_pass1
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 160
Server version: 8.0.42 MySQL Community Server - GPL

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

mysql> set global log_bin_trust_function_creators = 0;
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> quit;
Bye
zabbix@zabbix:~$ ■
```

#### e. Configuració del servidor Zabbix

Editem el fitxer de configuració del servidor /etc/zabbix/zabbix\_server.conf i establim la contrasenya de la base de dades:

DBPassword=password

```
GNU nano 7.2 /etc/zabbix/zabbix_server.conf *
DPassword=password
```

#### f. Inici dels serveis

Reiniciem els serveis necessaris i els activem perquè s'inicien automàticament amb el sistema:

```
systemctl restart zabbix-server zabbix-agent apache2
systemctl enable zabbix-server zabbix-agent apache2
```

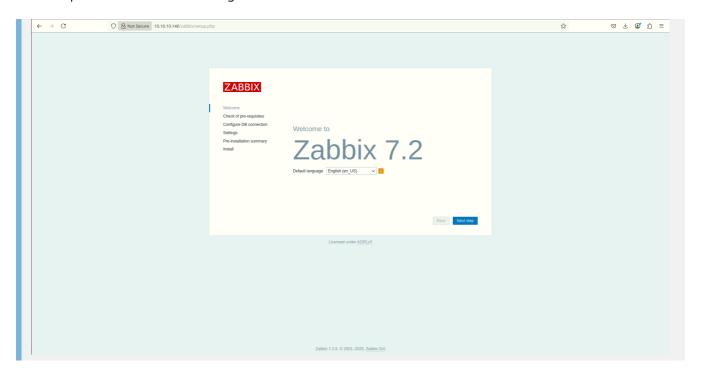
```
zabbix@zabbix:~$ sudo systemctl restart zabbix-agent.service
zabbix@zabbix:~$ sudo systemctl restart apache2.service
zabbix@zabbix:~$ sudo systemctl enable zabbix-agent.service
Synchronizing state of zabbix-agent.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable zabbix-agent
zabbix@zabbix:~$ sudo systemctl enable apache2.service
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
zabbix@zabbix:~$ []
```

#### g. Accés a la interfície web

Una vegada tot estiga operatiu, podem accedir a la interfície web de Zabbix des del navegador:

http://IP\_DEL\_SERVIDOR/zabbix

Des d'ací podrem finalitzar la configuració via web GUI.



Amb això, el servidor Zabbix queda instal·lat i llest per a ser utilitzat per a la monitorització centralitzada de la infraestructura.

