Enunciado:

Realice una instalación de Zabbix 3.4 en Ubuntu Server 16.04 y configure para que se monitorice a él mismo y para que monitorice a CentOS

- **Servicios obligatorios para ser monitorizados: SSH y HTTP**
- **Documente las referencias que ha utilizado así como los problemas que ha encontrado**

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1. Lo primero que debemos hacer es conectar las maquinas entre si, para esto utilizaremos la siguiente configuración en Ubuntu y en CentOS teniendo activadas previamente las interfaces de red NAT y Solo anfitrion en ambas.

   ubuntu server

   /etc/network/interfaces
   añadir
   auto enp0s8
   iface enp0s8 inet static
   address 192.168.56.105
   netmask 255.255.255.0
   gateway 192.168.56.1

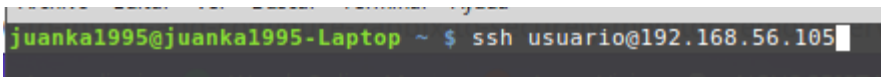
   systemctl restart networking -> activar la nueva red

   centos

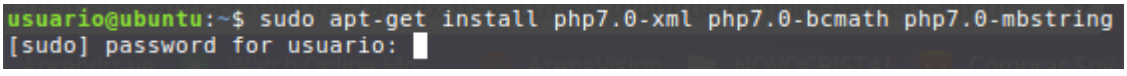
   /etc/sysconfig/network-scripts/ifcfg-enp0s8
   TYPE=Ethernet
   BOOTPROTO=none
   NAME=enp0s8
   DEVICE=enp0s8
   eONBOOT=yes
   IPADDR=192.168.56.110
   NETMASK=255.255.255.0

   ifdown enp0s8
   ifup enp0s8 -> activar nueva configuracion

2. Nos conectamos por SSH al Ubuntu Server



3. Instalamos los módulos que Zabbix necesita.



4. Descargamos del repositorio oficial he instalamos Zabbix 3.4

```
usuario@ubuntu:~$ sudo wget http://repo.zabbix.com/zabbix/3.4/ubuntu/pool/main/z/zabbix-release
/zabbix-release_3.4-1+xenial_all.deb
--2017-11-30 16:09:16--  http://repo.zabbix.com/zabbix/3.4/ubuntu/pool/main/z/zabbix-release/za
bbix-release_3.4-1+xenial_all.deb
Resolviendo repo.zabbix.com (repo.zabbix.com)... 162.243.159.138
Conectando con repo.zabbix.com (repo.zabbix.com)[162.243.159.138]:80... conectado.
Petición HTTP enviada, esperando respuesta... 200 OK
Longitud: 3884 (3,8K) [application/x-debian-package]
Grabando a: “zabbix-release_3.4-1+xenial_all.deb”

zabbix-release_3.4-1+xe 100%[=============================>]   3,79K  --.-KB/s    in 0s

2017-11-30 16:09:16 (242 MB/s) - “zabbix-release_3.4-1+xenial_all.deb” guardado [3884/3884]

usuario@ubuntu:~$ dpkg -i zabbix-release_3.4-1+xenial_all.deb
```

```
usuario@ubuntu:~$ sudo apt-get install zabbix-server-mysql zabbix-frontend-php zabbix-agent zab
bix-get zabbix-sender snmp snmpd snmp-mibs-downloader php7.0-bcmath php7.0-xml php7.0-mbstring
```

5. Editamos la zona horaria

```
usuario@ubuntu:~$ cd /etc/zabbix/
usuario@ubuntu:/etc/zabbix$ sudo vi apache.conf
```

```
    php_value always_populate_raw_post_data -
    php_value date.timezone Europe/Rome
/IfModule>
```

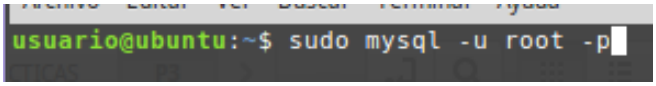
```
usuario@ubuntu:/etc/zabbix$ vi /etc/php/7.0/apache2/php.ini
```

```
date.timezone = Europe/Rome
```

6. Recargamos el servicio de apache2

```
usuario@ubuntu:/etc/zabbix$ sudo systemctl reload apache2.service
```

7. Creamos la base de datos y el usuario




```
usuario@ubuntu:~$ sudo mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 42
Server version: 10.0.31-MariaDB-0ubuntu0.16.04.2 Ubuntu 16.04

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> create database zabbix character set utf8 collate utf8_bin;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> grant all privileges on zabbix.* to zabbix@localhost identified by 'Practicas
ISE';
Query OK, 0 rows affected (0.01 sec)

MariaDB [(none)]> flush privileges
    -> ;
Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> quit
Bye
usuario@ubuntu:~$
```

8. Después de esto importamos la base de datos inicial. Primero nos cambiamos a root. Descomprimimos la base de datos inicial y la modificamos.

```
root@ubuntu:/usr/share/doc/zabbix-server-mysql# gunzip create.sql.gz
root@ubuntu:/usr/share/doc/zabbix-server-mysql# vi create.sql
root@ubuntu:/usr/share/doc/zabbix-server-mysql# cat create.sql | mysql -u zabbix -p
Enter password:
root@ubuntu:/usr/share/doc/zabbix-server-mysql#
```

```
use zabbix;

CREATE TABLE `users` (
        `userid`
        `alias`
        `name`
        `surname`
```

9. Ahora editamos la configuración de la base de datos.

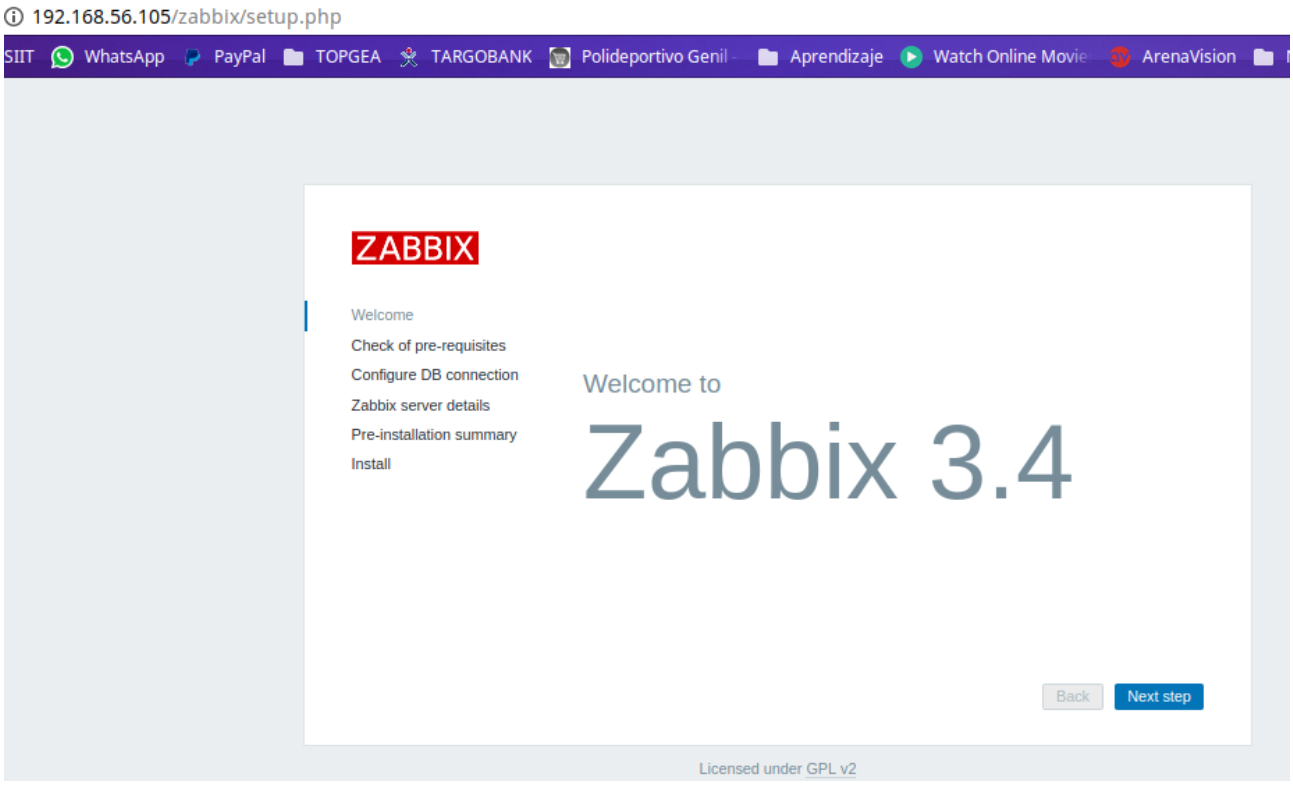
```
root@ubuntu:~# vi /etc/zabbix/zabbix_server.conf
```

```
### Option: DBHost
#       Database host name.
#       If set to localhost, socket is used for MySQL.
#       If set to empty string, socket is used for PostgreS
#
# Mandatory: no
# Default:
DBHost=localhost

### Option: DBName
#       Database name.
#       For SQLite3 path to database file must be provided.
#
# Mandatory: yes
# Default:
# DBName=

DBName=zabbix

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

### Option: DBUser
#       Database user. Ignored for SQLite.
#
# Mandatory: no
# Default:
# DBUser=

DBUser=zabbix

### Option: DBPassword
#       Database password. Ignored for SQLite.
#       Comment this line if no password is used.
#
# Mandatory: no
# Default:
DBPassword=practicas,ISE

### Option: DBSocket
```

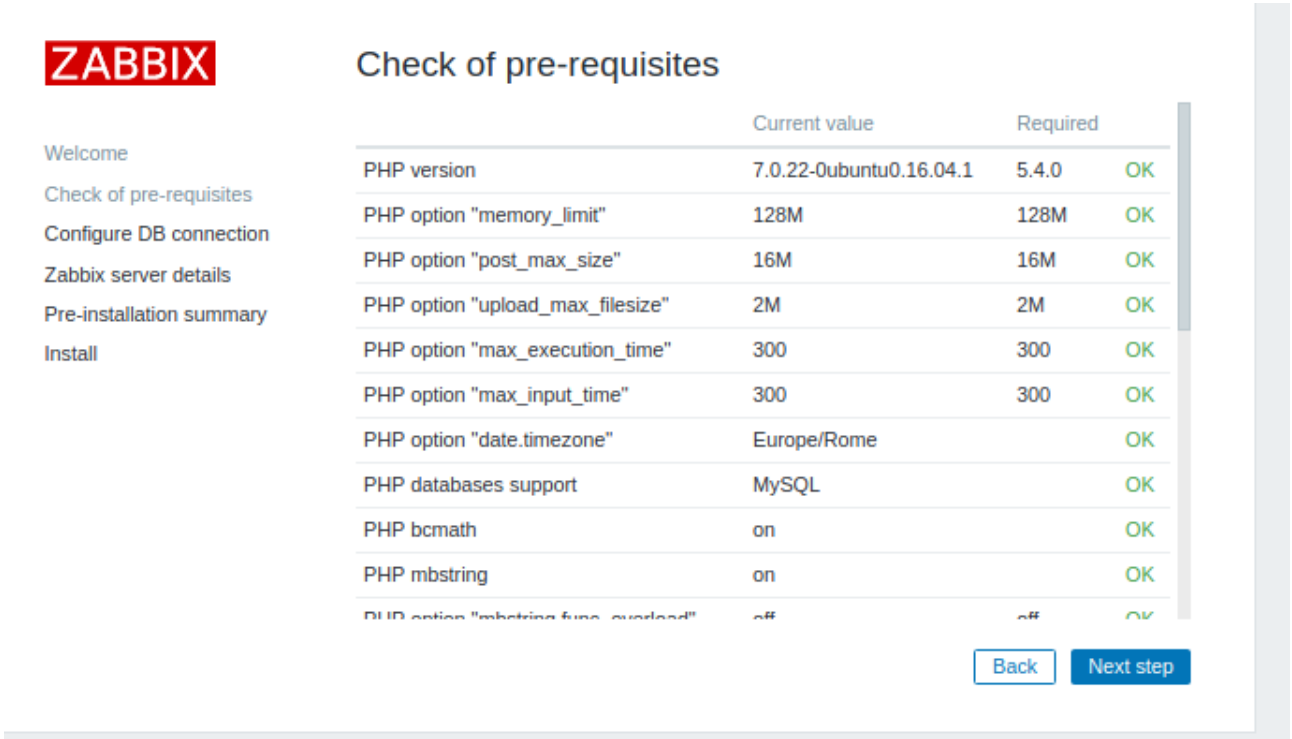
10. Habilitamos el server y el agent

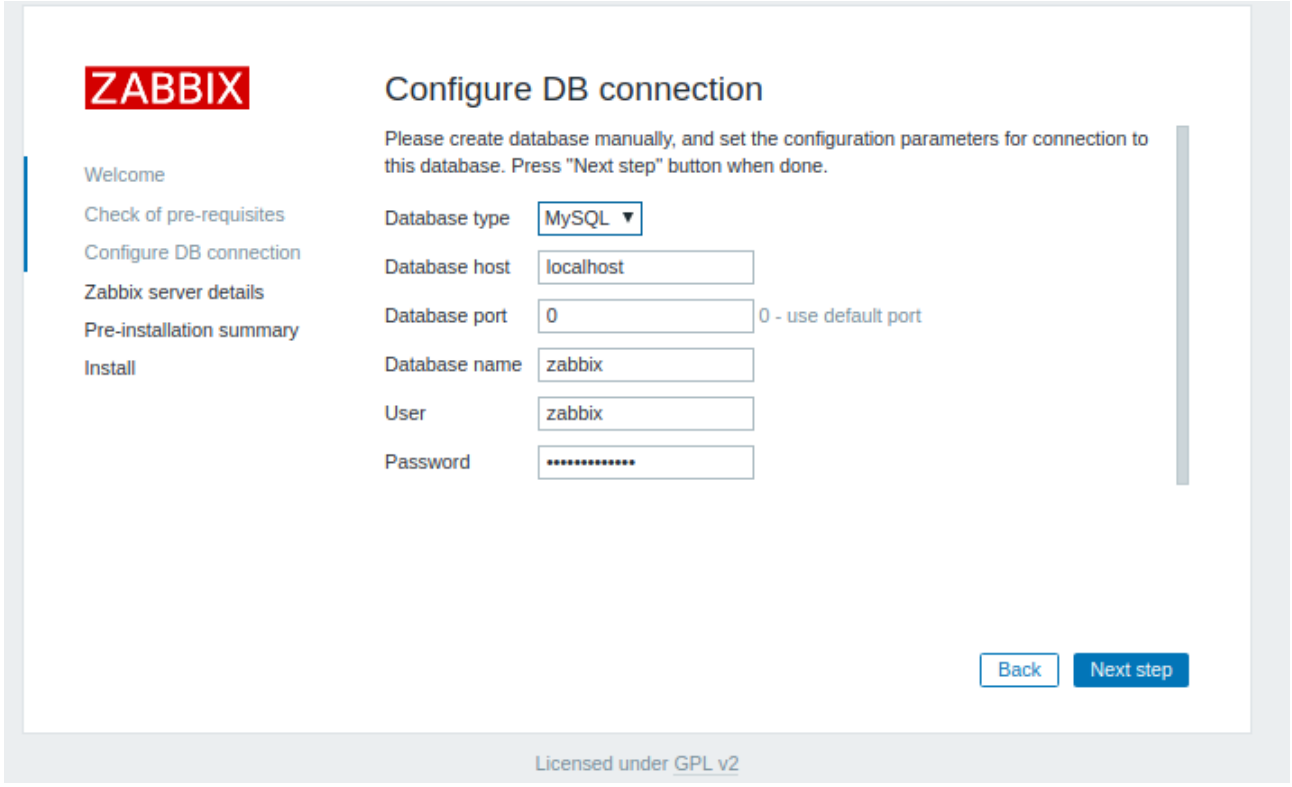
```
root@ubuntu:~# systemctl enable zabbix-server
Synchronizing state of zabbix-server.service with SysV init with /lib/systemd/systemd-sysv-inst
all...
Executing /lib/systemd/systemd-sysv-install enable zabbix-server
root@ubuntu:~# systemctl start zabbix-server
root@ubuntu:~# systemctl enable zabbix-agent
Synchronizing state of zabbix-agent.service with SysV init with /lib/systemd/systemd-sysv-insta
ll...
Executing /lib/systemd/systemd-sysv-install enable zabbix-agent
root@ubuntu:~# systemctl start zabbix-agent
root@ubuntu:~#
```

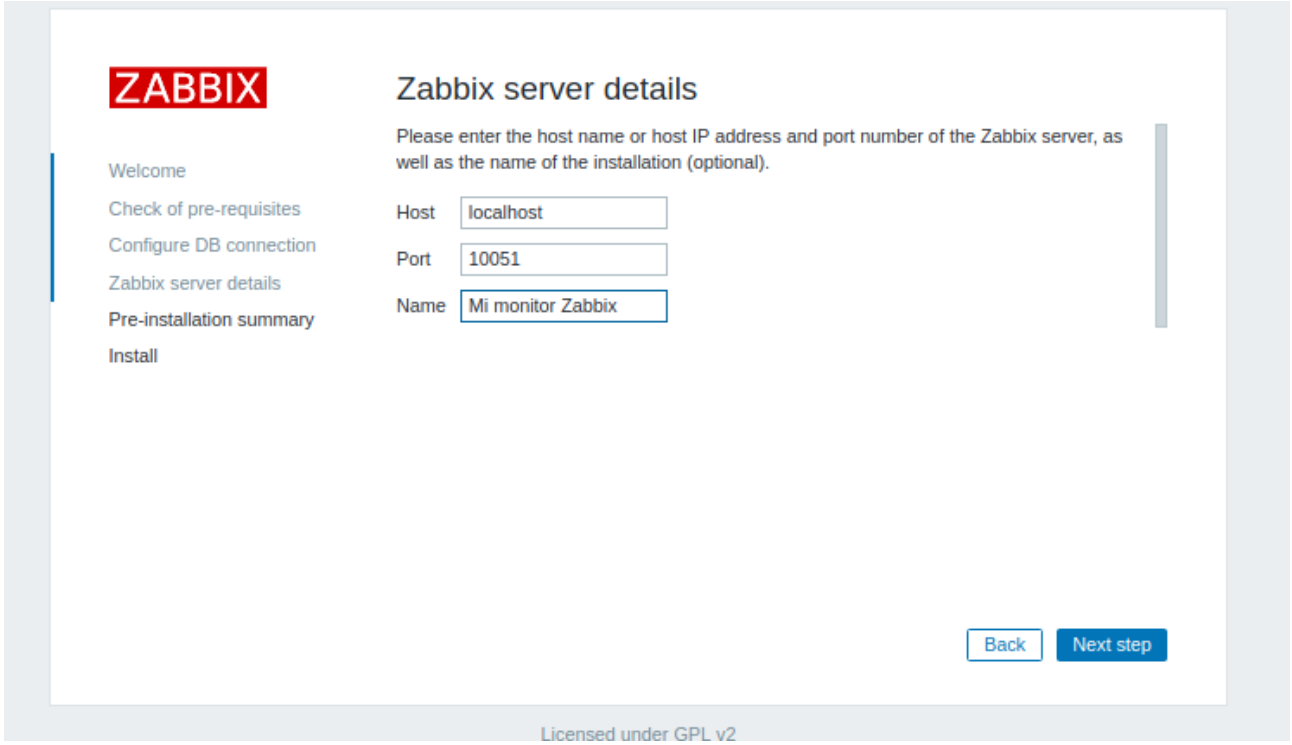
11. Configuramos Zabbix mediante la web

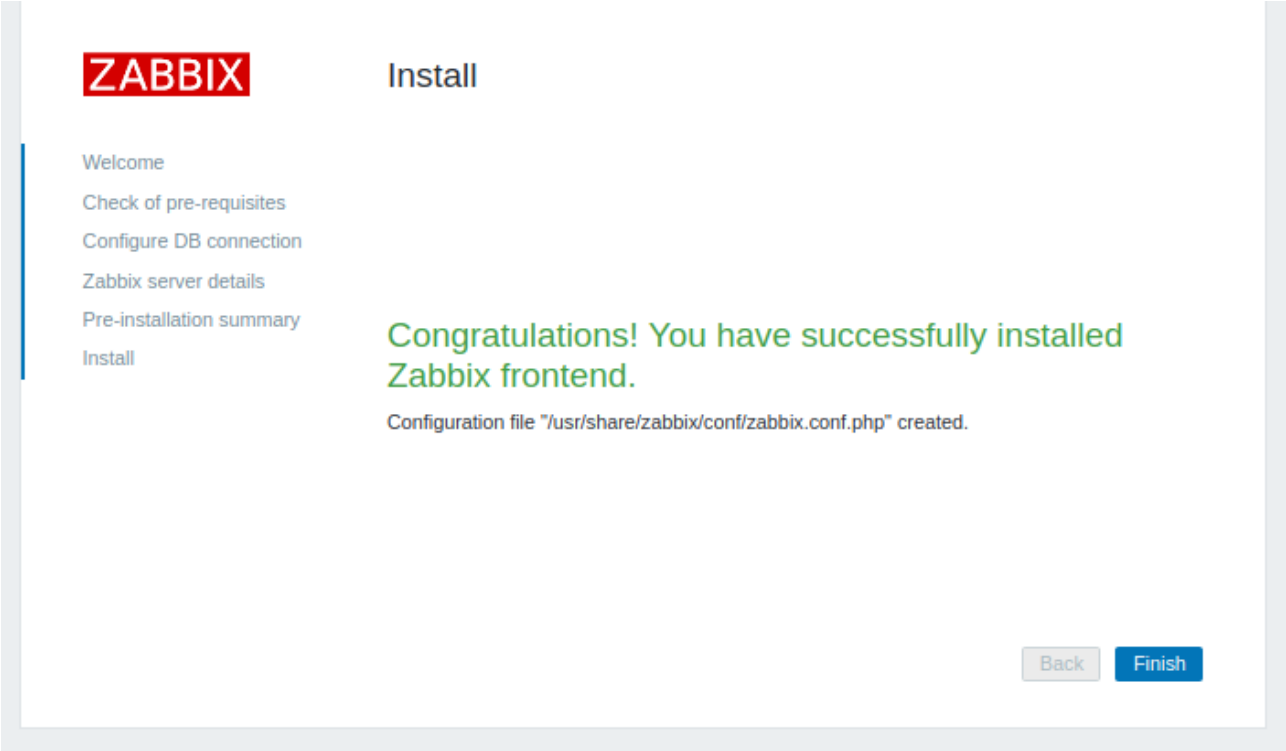


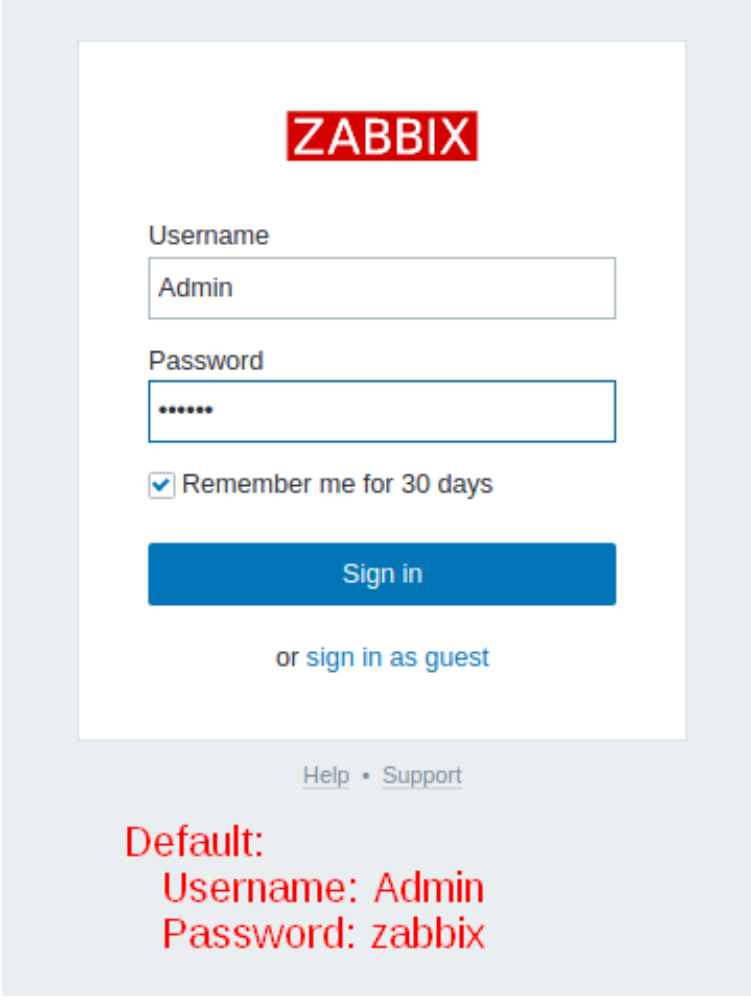
Todo ha de estar OK.



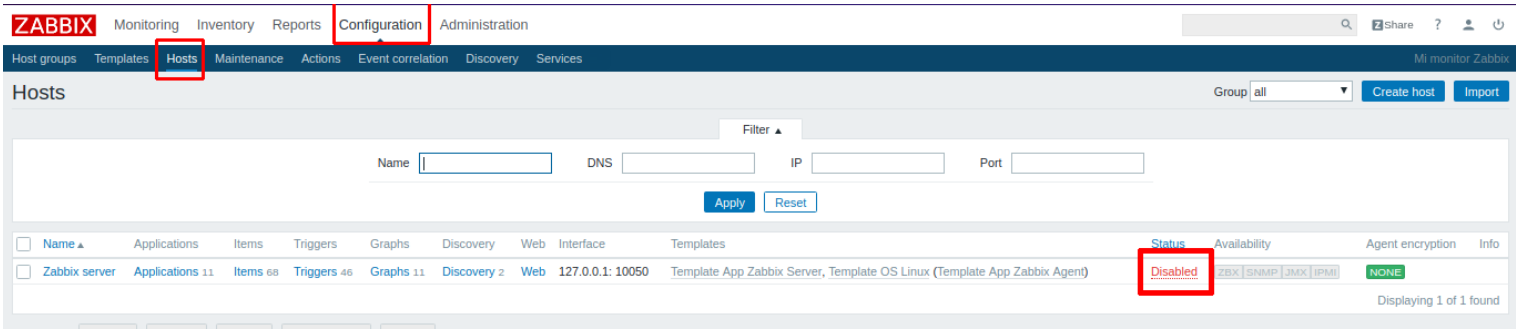

ZABBIX
Welcome
Check of pre-requisites
Configure DB connection
Zabbix server details
Pre-installation summary
Install
Configure DB connection
Please create database manually, and set the configuration parameters for connection to this database. Press "Next step" button when done.
Database type
MySQL
Database host
localhost
Database port
0
0 - use default port
Database name
zabbix
User
zabbix
Password
Back
Next step
Licensed under GPL v2

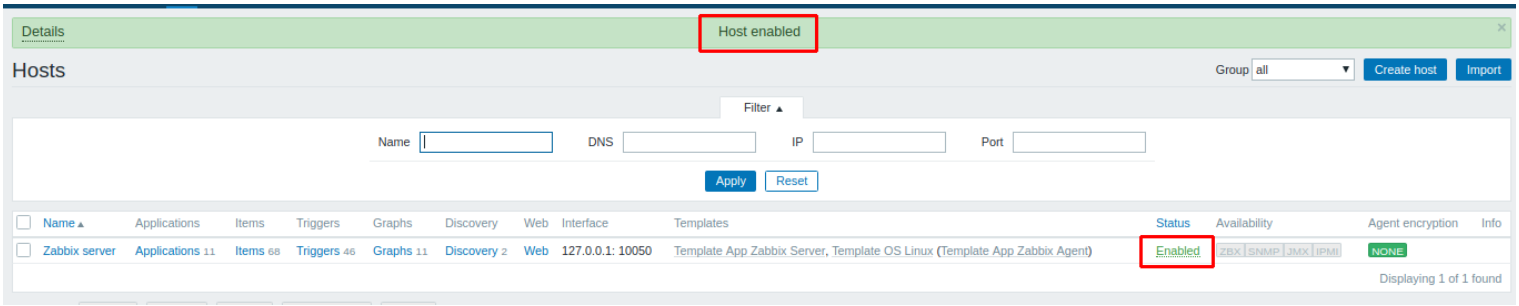

ZABBIX
Welcome
Check of pre-requisites
Configure DB connection
Zabbix server details
Pre-installation summary
Install
Zabbix server details
Please enter the host name or host IP address and port number of the Zabbix server, as well as the name of the installation (optional).
Host
localhost
Port
10051
Name
Mi monitor Zabbix
Back
Next step
Licensed under GPL v2


ZABBIX
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 "/usr/share/zabbix/conf/zabbix.conf.php" created.
Back
Finish

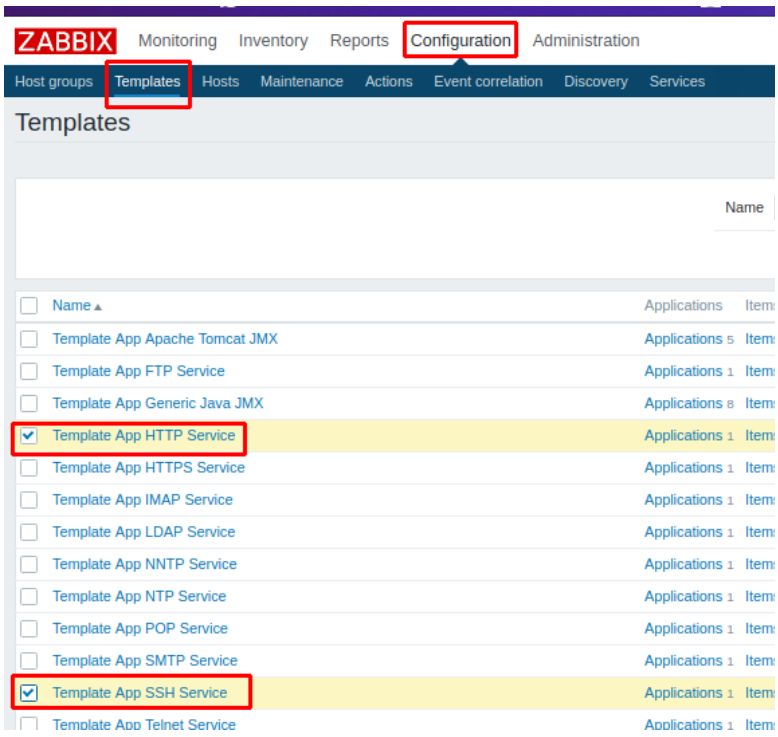

ZABBIX
Username
Admin
Password
Remember me for 30 days
Sign in
or sign in as guest
Help • Support
Default:
Username: Admin
Password: zabbix

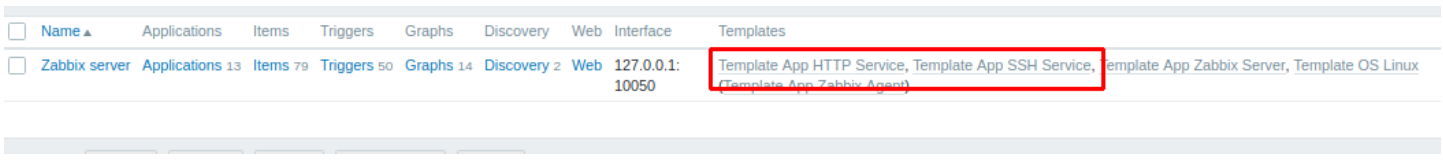
12. Ahora activamos nuestro Zabbix Server, que almacenará la información que vayamos monitorizando.





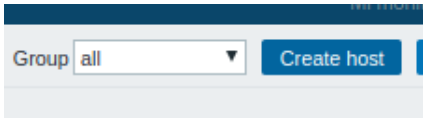
13. Ahora añadimos los siguientes templates.

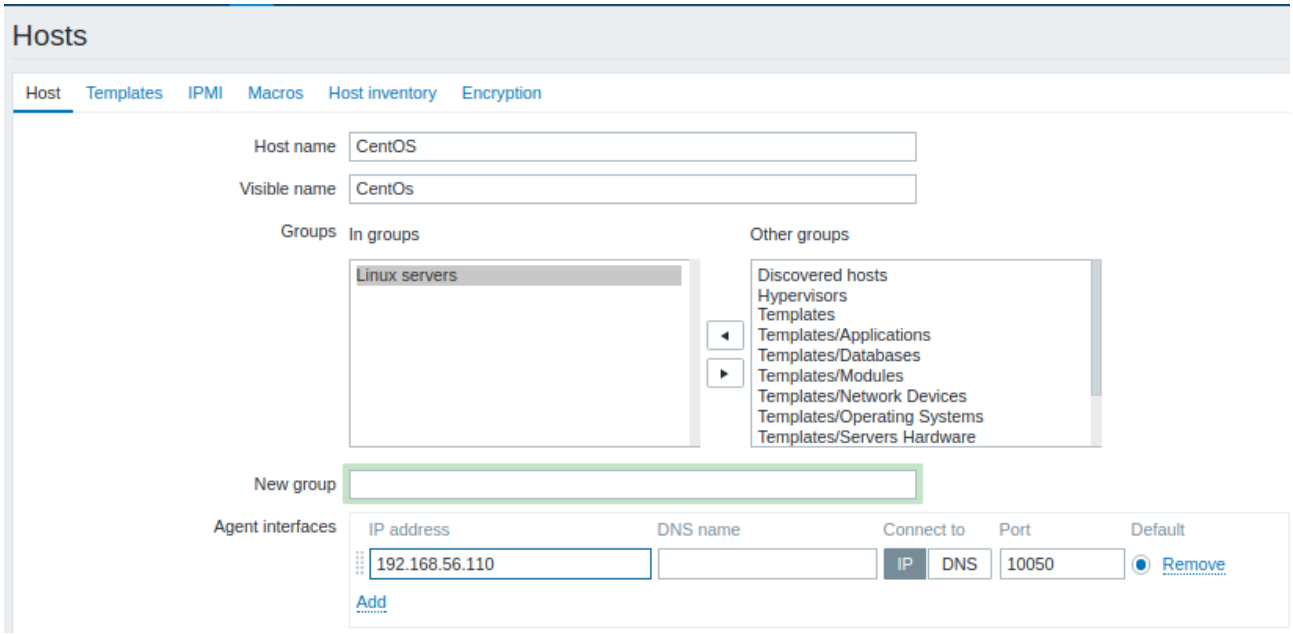


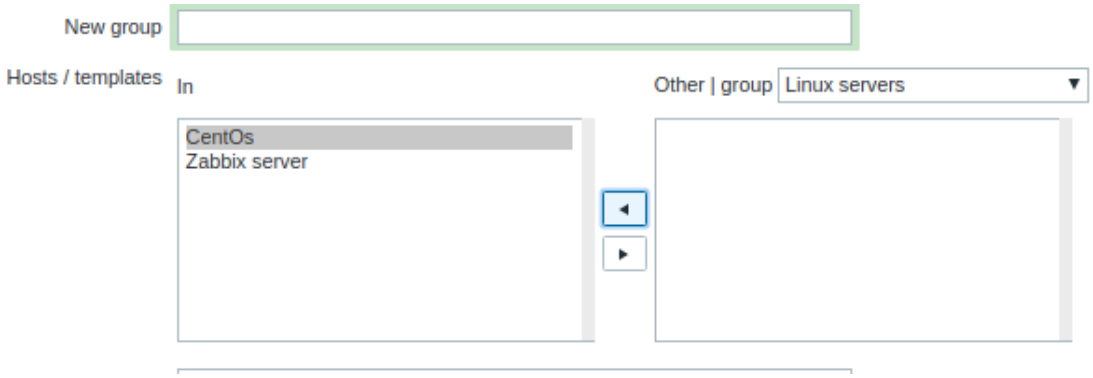


14. Ahora pasaremos a configurar CentOS que a diferencia de Ubuntu Server no viene añadido por defecto, por estar en un servidor ajeno a donde se encuentra Zabbix-Server, así que tenemos que configurarlo a mano.

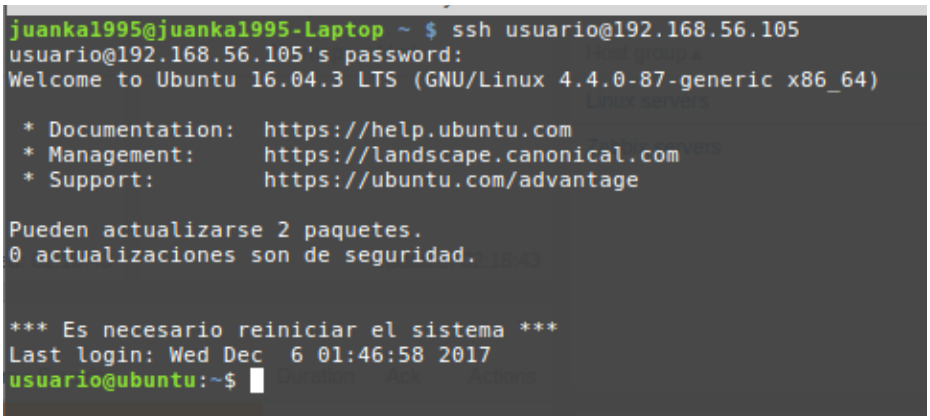
    Vamos a **Configuration/Hosts/Create host**, cambiamos el **host name y el Visible name** y l o añadimos al grupo de **Linux servers**, finalmente en **Agent interfaces añadimos la IP de CentOS 192.168.56.110** en modo IP y en el puerto por defecto **-10050-.** Tras esto vamos a **Templates** y al igual que para Ubuntu Server, **añadimos Template App HTTP Service, Template App SSH Service y opcionalmente Template OS Linux, actualizamos** y ya está listo.

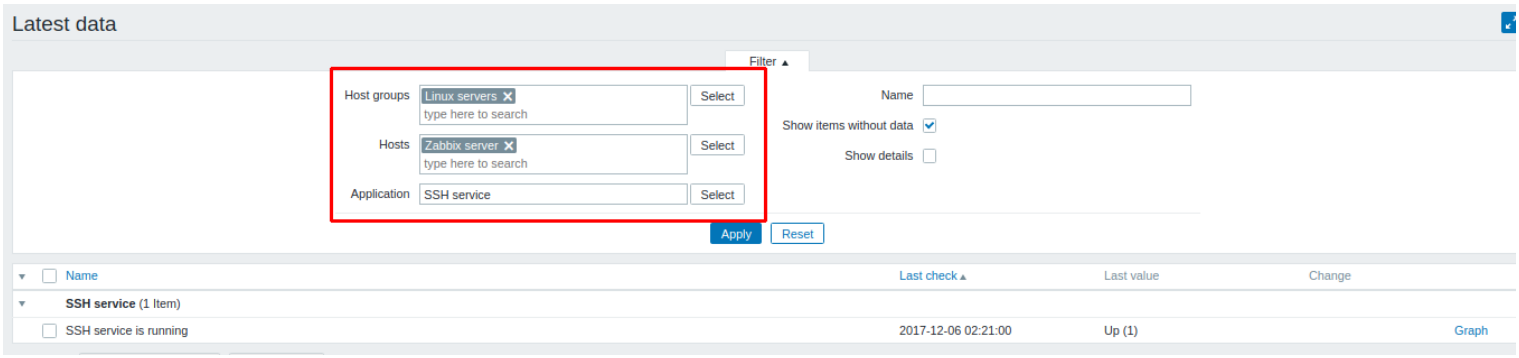


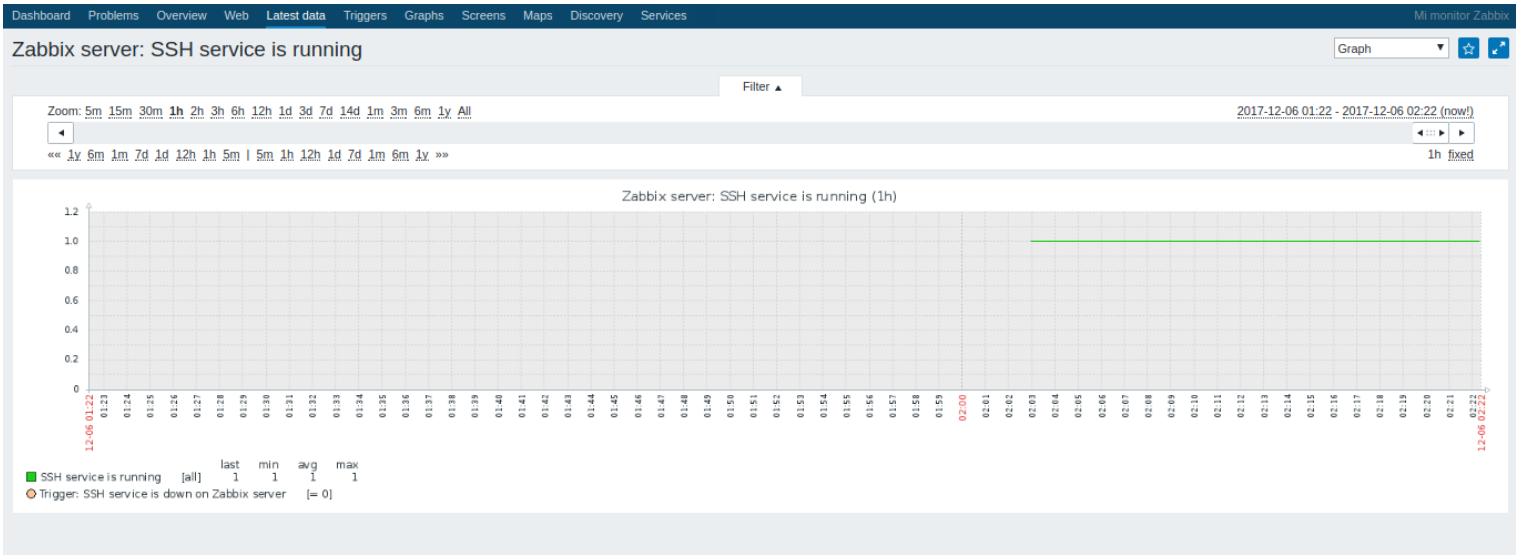




15. Tras esto podemos ver todas las incidencias, gráficas y demás a través de la aplicación web. Algunos ejemplos:







Referencias utilizadas

- https://www.zabbix.com/documentation/3.4/manual
- http://yallalabs.com/linux/how-to-install-zabbix-3-4-monitoring-server-on-ubuntu-16-04-lts/