

Install Zabbix

Welcome to our install guide of the Zabbix monitoring service! In these 7 steps we will tell you how you can prepare your Zabbix master, how you can configure the Zabbix web interface, how to prepare your Zabbix client, add them to the web interface and how you can use notifications.

1) Install apache, mysql and php op Zabbix Server

For this first task, you will need a full operating LAMP stack. This is an acronym. First of all, you'll need Linux. We will use Ubuntu server 18.04 for this example. Secondly, you'll need Apache, which is a webserver. This is used for the Zabbix web interface. Next, we will use MySQL, because Zabbix uses a database. Finally, you'll need to install PHP.

Installing Apache and Updating the Firewall

We always start off with updating all available packages so we're sure we have the latest packages:

```
Sudo apt-get update
```

```
Sudo apt-get upgrade
```

Now we can install the apache package!

```
Sudo apt-get install apache2
```

Done? It's possible you've enabled the UFW firewall. This needs to allow http and https traffic. Check if UFW has an application profile for Apache:

```
sudo ufw app list
```

You should get an output like this:

```
zabbix@zabbix:~$  
zabbix@zabbix:~$ sudo ufw app list  
Available applications:  
  Apache  
  Apache Full  
  Apache Secure  
  OpenSSH  
zabbix@zabbix:~$
```

You can type in the next command to see which ports are enabled for traffic:

```
sudo ufw app info "Apache Full"
```

You should get an output like this:

```
zabbix@zabbix:~$  
zabbix@zabbix:~$  
zabbix@zabbix:~$ sudo ufw app info "Apache Full"  
Profile: Apache Full  
Title: Web Server (HTTP,HTTPS)  
Description: Apache v2 is the next generation of the omnipresent Apache web  
server.  
  
Ports:  
  80,443/tcp  
zabbix@zabbix:~$
```

You can see it allows TCP ports 80 and 443. Those are for HTTP and HTTPS. Now it's important to allow this traffic:

```
sudo ufw allow in "Apache Full"
```

Okay, so if everything went right, you should be able to visit your IP address in a web browser. Just type in:

```
http://[your ip here]
```

You should now see the Apache 2 default webpage! Congrats!

Installing MySQL

Now we will install the database management system "MySQL". Type in the next command:

```
sudo apt install mysql-server
```

When the installation is complete, you can run a security script. This one is already installed and removes non-secure defaults and locks down access to the database:

```
sudo mysql_secure_installation + 'y' + 1
```

For the other questions being asked, you can just press y!

Now you can test if what you've done, went well. Use this command to see if everything worked:

```
sudo mysql
```

You should get an output like this:

```
zabbix@zabbix:~$  
zabbix@zabbix:~$ sudo mysql  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 4  
Server version: 5.7.30-0ubuntu0.18.04.1 (Ubuntu)  
  
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owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql>
```

The last rule is the most important: mysql>. This means you're in the mysql prompt!

Installing PHP

The last part includes installing PHP. You only need one command for this one:

```
Sudo apt install php libapache2-mod-php php-mysql
```

2) Install Zabbix server

Great, you've done excellent work already. Now it's time to install the Zabbix server on the virtual machine on which you previously installed the LAMP stack. There is a package ready in Linux, but apparently it's outdated, so we won't be using that one. Instead, we'll use the "official Zabbix repository":

```
wget https://repo.zabbix.com/zabbix/4.2/ubuntu/pool/main/z/zabbix-release/zabbix-release_4.2-1+bionic_all.deb
```

```
sudo dpkg -i zabbix-release_4.2-1+bionic_all.deb
```

It's important to update the packages so the new repository is added:

```
sudo apt update
```

Now you can install the Zabbix server and the web frontend:

```
sudo apt install zabbix-server-mysql zabbix-frontend-php
```

You can also install the Zabbix agent. This makes it possible to collect data about the Zabbix server status:

```
sudo apt install zabbix-agent
```

3) Configuring MySQL database for Zabbix

Did you think you were already done? Wrong! It's time to setup a database now that will collect data from its agents. First we will change ourselves to the root account:

```
Sudo su
```

Now you can log into MySQL. You're required to type the password you've inserted in the MySQL server installation:

```
Mysql -uroot -p
```

This should be the result:

```
zabbix@zabbix:~$ sudo su
root@zabbix:/home/zabbix# mysql -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 5
Server version: 5.7.30-0ubuntu0.18.04.1 (Ubuntu)

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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> _
```

Now we will write some sql code!

First we'll create the Zabbix database with UTF-8 character support:

```
Create database Zabbix character set utf8 collate utf8_bin;
```

Now we'll create a user that the server will use. We will give it access to the new database and set the password:

```
Grant all privileges on Zabbix.* to zabbix@localhost identified by 'Abcd1234!';
```

Apply these permissions by typing in the next command:

```
Flush privileges;
```

Great, you can now exit the database!

```
Quit;
```

So, it's time to import the initial schema and data. Don't worry, there's already a file for that. You can just type in the next command:

```
zcat /usr/share/doc/zabbix-server-mysql/create.sql.gz | mysql -uzabbix -p Zabbix
```

In order to use this database, you'll need to edit this file:

```
sudo nano /etc/zabbix/zabbix_server.conf
```

Now find this part in that file and edit this:

```
### Option: DBPassword
#       Database password.
#       Comment this line if no password is used.
#
# Mandatory: no
# Default:
#       DBPassword=Abcd1234!
```

```
DBPassword=your_zabbix_mysql_password
```

4) Configure PHP for Zabbix

We need to create a small readjustment for the time settings. Start by opening this file:

```
Sudo nano /etc/zabbix/apache.conf
```

In here, you need to change a line. It's normally a comment line:

```
php_value max_input_vars 10000
php_value always_populate_raw_post_data -1
# php_value date.timezone Europe/Riga
```

Remove the comment line, and change it to your own timezone!

Once done, you need to restart Apache to apply this setting:

```
sudo systemctl restart apache2
```

And also start the Zabbix server:

```
sudo systemctl start Zabbix-server
```

Now it's time to see if the Zabbix server is running by typing in the following command:

```
sudo systemctl status zabbix-server
```

If everything worked correctly, you should have the following output:

```

• zabbix-server.service - Zabbix Server
  Loaded: loaded (/lib/systemd/system/zabbix-server.service; enabled; vendor preset: enabled)
  Active: active (running) since Wed 2020-05-13 11:05:37 UTC; 8min ago
  Process: 1030 ExecStart=/usr/sbin/zabbix_server -c $CONFFILE (code=exited, status=0/SUCCESS)
  Main PID: 1397 (zabbix_server)
  Tasks: 37 (limit: 4915)
  CGroup: /system.slice/zabbix-server.service
          └─1397 /usr/sbin/zabbix_server -c /etc/zabbix/zabbix_server.conf
             └─1676 /usr/sbin/zabbix_server: configuration synchronizer [syncd configuration in 0.0259 sec]
                └─1677 /usr/sbin/zabbix_server: housekeeper [startup idle for 30 minutes]
                   └─1678 /usr/sbin/zabbix_server: timer #1 [updated 0 hosts, suppressed 0 events in 0.000000 sec]
                      └─1679 /usr/sbin/zabbix_server: http poller #1 [got 0 values in 0.000945 sec, idle 5 sec]
                         └─1680 /usr/sbin/zabbix_server: discoverer #1 [processed 0 rules in 0.000542 sec, idle 5 sec]
                            └─1681 /usr/sbin/zabbix_server: history synchronizer #1 [processed 0 values, 0 triggers in 0.000000 sec]
                               └─1682 /usr/sbin/zabbix_server: history synchronizer #2 [processed 0 values, 0 triggers in 0.000000 sec]
                                  └─1683 /usr/sbin/zabbix_server: history synchronizer #3 [processed 2 values, 0 triggers in 0.000000 sec]
                                     └─1684 /usr/sbin/zabbix_server: history synchronizer #4 [processed 0 values, 0 triggers in 0.000000 sec]
                                        └─1686 /usr/sbin/zabbix_server: escalator #1 [processed 0 escalations in 0.001447 sec, idle 5 sec]
                                           └─1688 /usr/sbin/zabbix_server: proxy poller #1 [exchanged data with 0 proxies in 0.000000 sec, idle 5 sec]
                                              └─1690 /usr/sbin/zabbix_server: self-monitoring [processed data in 0.000039 sec, idle 5 sec]
                                                 └─1691 /usr/sbin/zabbix_server: task manager [processed 0 task(s) in 0.000543 sec, idle 5 sec]
                                                    └─1692 /usr/sbin/zabbix_server: poller #1 [got 0 values in 0.000039 sec, idle 5 sec]
                                                       └─1693 /usr/sbin/zabbix_server: poller #2 [got 0 values in 0.000038 sec, idle 5 sec]
                                                          └─1694 /usr/sbin/zabbix_server: poller #3 [got 0 values in 0.000026 sec, idle 5 sec]
                                                             └─1695 /usr/sbin/zabbix_server: poller #4 [got 0 values in 0.000029 sec, idle 5 sec]
                                                                └─1696 /usr/sbin/zabbix_server: poller #5 [got 1 values in 0.000188 sec, idle 5 sec]
                                                                   └─1697 /usr/sbin/zabbix_server: unreachable poller #1 [got 0 values in 0.000057 sec, idle 5 sec]
                                                                      └─1698 /usr/sbin/zabbix_server: trapper #1 [processed data in 0.000000 sec, waiting 5 sec]
                                                                         └─1699 /usr/sbin/zabbix_server: trapper #2 [processed data in 0.000000 sec, waiting 5 sec]
                                                                            └─1700 /usr/sbin/zabbix_server: trapper #3 [processed data in 0.000000 sec, waiting 5 sec]
                                                                               └─1701 /usr/sbin/zabbix_server: trapper #4 [processed data in 0.000000 sec, waiting 5 sec]
                                                                                  └─1702 /usr/sbin/zabbix_server: trapper #5 [processed data in 0.000000 sec, waiting 5 sec]
                                                                                     └─1703 /usr/sbin/zabbix_server: icmp pinger #1 [got 0 values in 0.000053 sec, idle 5 sec]
                                                                                        └─1704 /usr/sbin/zabbix_server: alert manager #1 [sent 0, failed 0 alerts, idle 5.00 sec]
                                                                                           └─1705 /usr/sbin/zabbix_server: alerter #1 started
                                                                                              └─1713 /usr/sbin/zabbix_server: alerter #2 started

```

lines 1-36

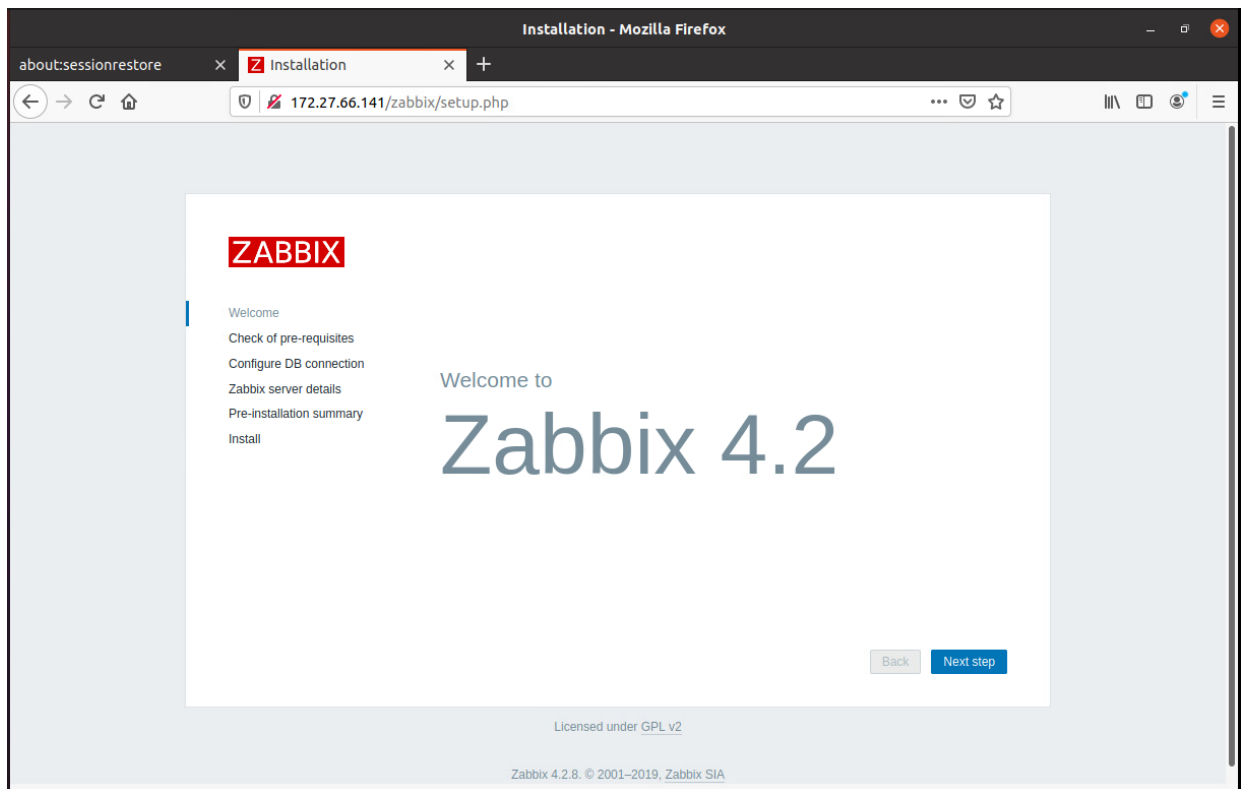
The last step here is to enable the server at boot time:

```
sudo systemctl enable zabbix-server
```

5) Configuring Settings for the Zabbix Web Interface

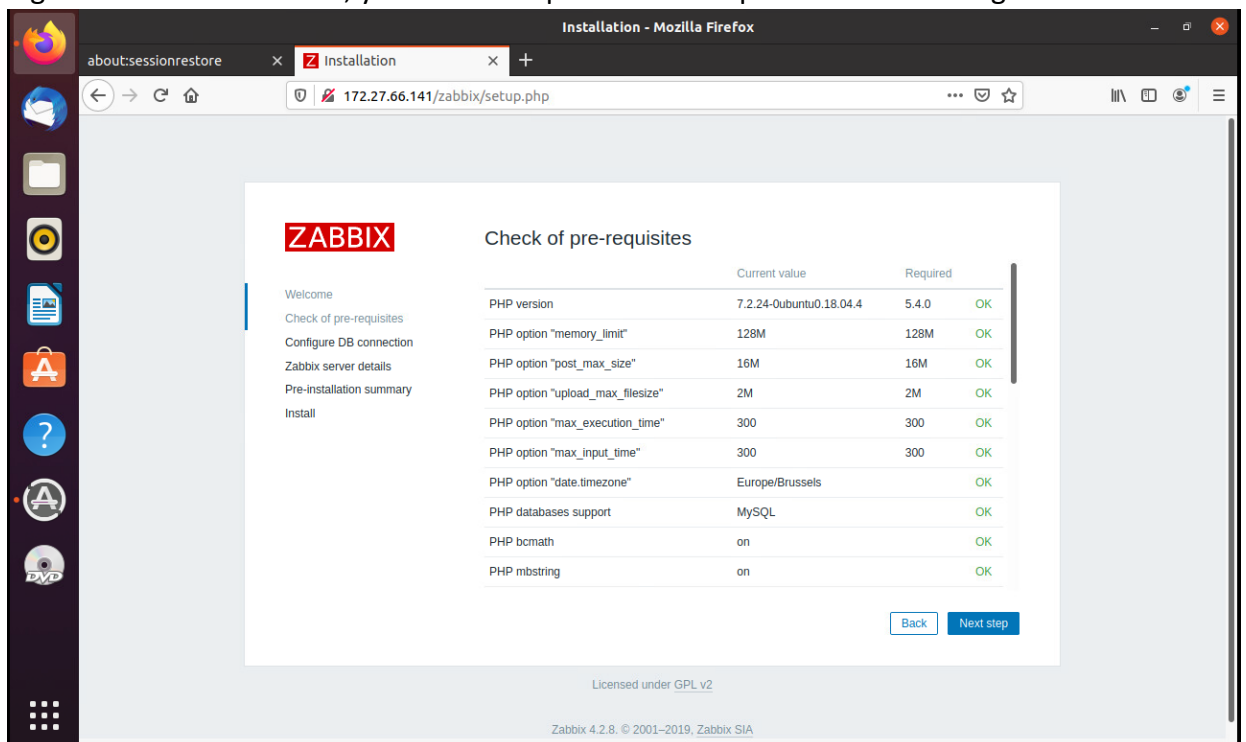
For this part, we will only need to work on the GUI of Linux. You need another machine which has a GUI with for example Firefox. First start with connecting to the web interface! The `Zabbix_server_name` is the ip address of the Zabbix server you've created in the previous steps. In our case it's 172.27.66.141:

http://zabbix_server_name/zabbix/

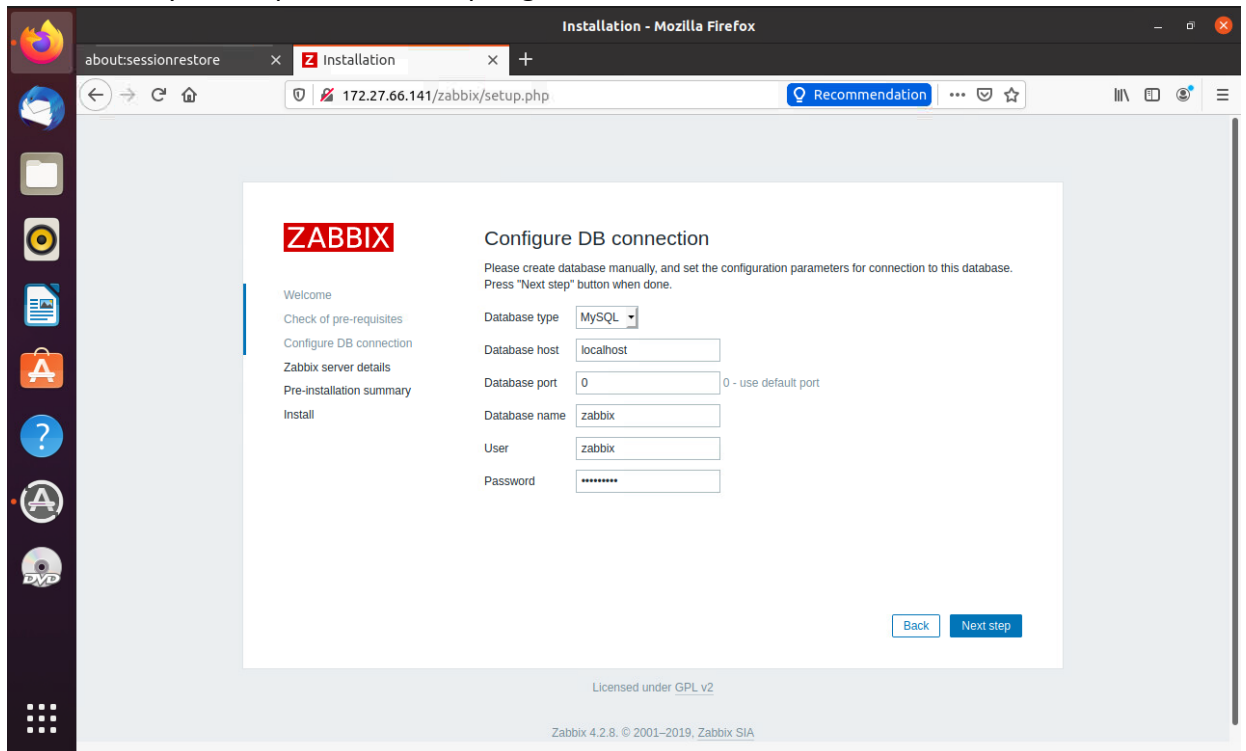


You can just click next there.

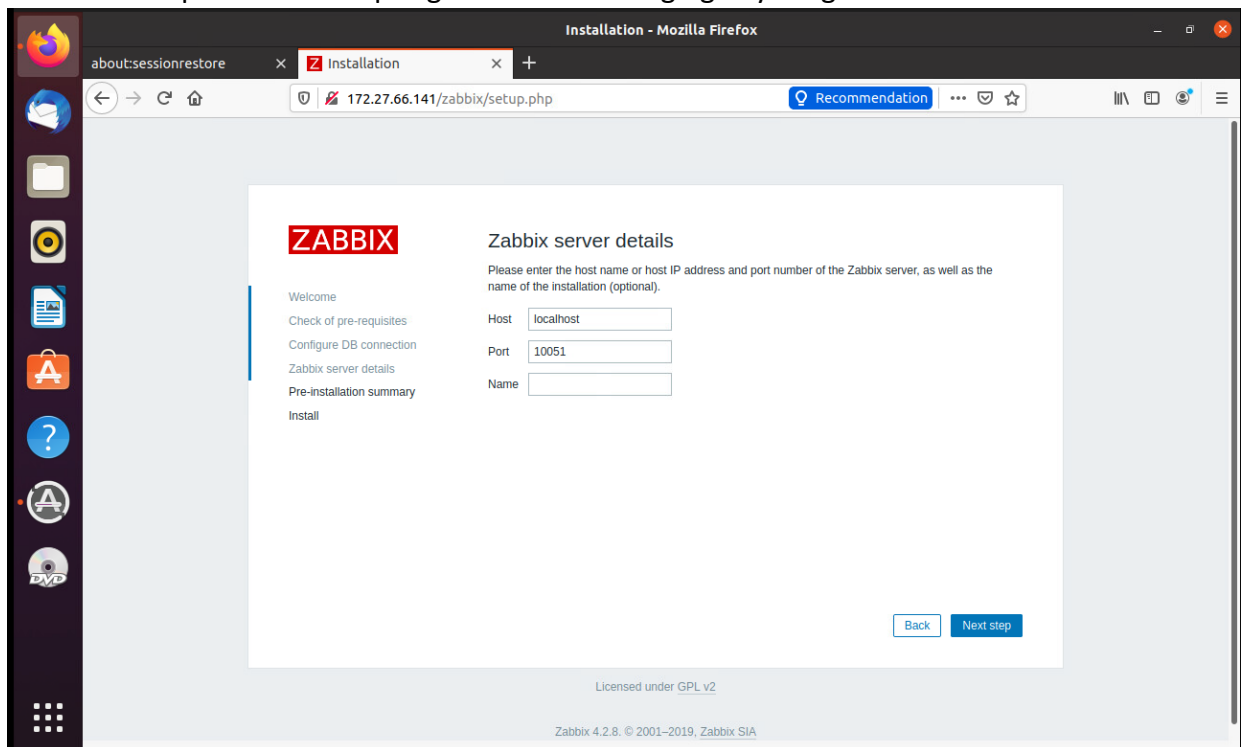
On the next screen, you will see of list of prerequisites to run Zabbix. If all of them have a green “ok” behind them, you’re safe to press “next step” on the bottom right corner.



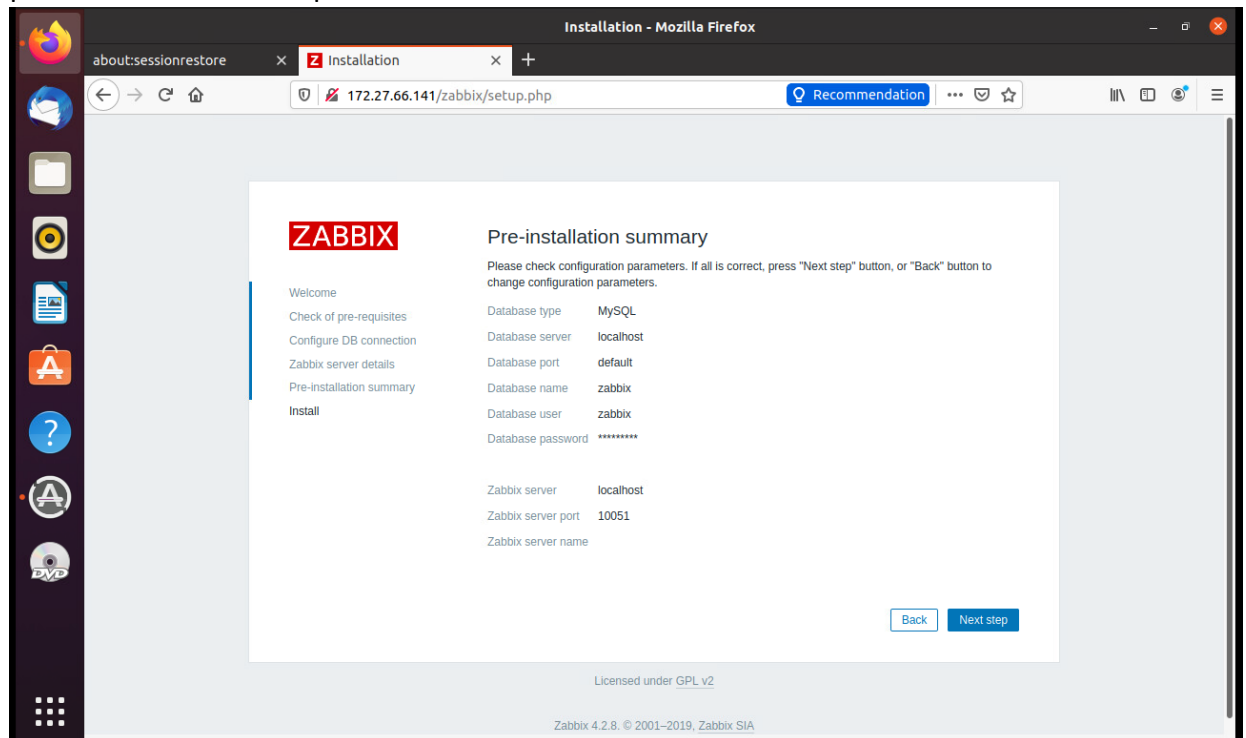
The next screen asks for a database connection. You need to type in your username and password for the user you've created in step 3. After you've filled in the correct credentials, you can press "next step" again.



The next screen is about the Zabbix server details. The name is completely optional. You can now press "next step" again without changing anything.



The next screen shows a summary. Confirm if all the details are right. If so, you can proceed to the next step.



The installation is now complete!

You can login with these credentials:

Username: Admin

Password: zabbix

6) Installing and Configuring the Zabbix Agent

Okay, we've installed the master server and connected to the GUI! Now it's time to add our first Zabbix Agent to monitor. For this part, I've created a new Ubuntu 18.04 server.

Agent install

First start off with installing the repository configuration package:

```
wget https://repo.zabbix.com/zabbix/4.2/ubuntu/pool/main/z/zabbix-release/zabbix-release_4.2-1+bionic_all.deb
```

```
sudo dpkg -i zabbix-release_4.2-1+bionic_all.deb
```

Remember to always update the packages!

```
Sudo apt update
```

Now install the Zabbix agent:

```
sudo apt install zabbix-agent
```

Encryption

It's possible to secure the connection between the server and the agent. To do this, we first need to generate a PSK (pre-shared keys):

```
sudo sh -c "openssl rand -hex 32 > /etc/zabbix/zabbix_agentd.psk"
```


The key is stored in the `/etc/Zabbix/Zabbix_agentd.psk` file. Remember this file, because we will need it. The result should be something like this:

```
agent@agent:~$ sudo sh -c "openssl rand -hex 32 > /etc/zabbix/zabbix_agentd.psk"
agent@agent:~$ cat /etc/zabbix/zabbix_agentd.psk
141ef38f4b95a4f02821fd312df983338ec7b8d7a5ef351d7af19922172ee19f
agent@agent:~$ _
```

Now it's time to edit the Zabbix agent settings because these are still the default settings. You can open them with nano:

```
sudo nano /etc/zabbix/zabbix_agentd.conf
```

Here we need to edit a couple of things.

First, edit the IP address of the Zabbix server. Normally, this is still 127.0.0.1 Change it to the server's IP address.

```
### Option: Server
# List of comma delimited IP addresses, optionally in CIDR notation, or DNS names of Zabbix
# Incoming connections will be accepted only from the hosts listed here.
# If IPv6 support is enabled then '127.0.0.1', '::127.0.0.1', '::ffff:127.0.0.1' are treated
# and '::/0' will allow any IPv4 or IPv6 address.
# '0.0.0.0/0' can be used to allow any IPv4 address.
# Example: Server=127.0.0.1,192.168.1.0/24,::1,2001:db8::/32,zabbix.example.com
#
# Mandatory: yes, if StartAgents is not explicitly set to 0
# Default:
# Server=

Server=172.27.66.141
```

Next you need to find the TLSConnect option. Change this to `"TLSConnect=PSK"`.

```
### Option: TLSConnect
# How the agent should connect to server or proxy. Used for active checks.
# Only one value can be specified:
#   unencrypted - connect without encryption
#   psk         - connect using TLS and a pre-shared key
#   cert        - connect using TLS and a certificate
#
# Mandatory: yes, if TLS certificate or PSK parameters are defined (even for 'unencrypted' config)
# Default:
# TLSConnect=unencrypted
TLSConnect=psk
```

Next, it's time for the TLSAccept section. Change this one to `"TLSAccept=PSK"`.

```
### Option: TLSAccept
# What incoming connections to accept.
# Multiple values can be specified, separated by comma:
#   unencrypted - accept connections without encryption
#   psk         - accept connections secured with TLS and a pre-shared key
#   cert        - accept connections secured with TLS and a certificate
#
# Mandatory: yes, if TLS certificate or PSK parameters are defined (even for 'unencrypted' config)
# Default:
# TLSAccept=unencrypted
TLSAccept=psk_
```

We also need to create a unique name for the key you just generated. It's done with *"TLSPSKIdentity=name_of_choice"*.

```
### Option: TLSPSKIdentity
#       Unique, case sensitive string used to identify the pre-shared key.
#
# Mandatory: no
# Default:
# TLSPSKIdentity=
TLSPSKIdentity=PSK 001_
```

At last, we need to point the Zabbix agent to the location of where your PSK key is stored: *"TLSPSKFile=/etc/Zabbix/Zabbix_agentd.psk"*.

```
### Option: TLSPSKFile
#       Full pathname of a file containing the pre-shared key.
#
# Mandatory: no
# Default:
# TLSPSKFile=
TLSPSKFile=/etc/zabbix/zabbix_agentd.psk_
```

When this is done, save and close the file. Now we need to restart the service and make it start at boot time:

```
sudo systemctl restart zabbix-agent
```

```
sudo systemctl enable zabbix-agent
```

If all went well and you type in this command:

```
sudo systemctl status zabbix-agent
```

You will see that the agent service is running:

```
agent@agent:~$
agent@agent:~$ sudo systemctl restart zabbix-agent
agent@agent:~$ sudo systemctl enable zabbix-agent
Synchronizing state of zabbix-agent.service with SysV service script with /lib/systemd/systemd-
install.
Executing: /lib/systemd/systemd-sysv-install enable zabbix-agent
agent@agent:~$ sudo systemctl status zabbix-agent
● zabbix-agent.service - Zabbix Agent
   Loaded: loaded (/lib/systemd/system/zabbix-agent.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2020-05-13 12:13:31 UTC; 20s ago
 Main PID: 2685 (zabbix_agentd)
    Tasks: 6 (limit: 4915)
   CGroup: /system.slice/zabbix-agent.service
           └─2685 /usr/sbin/zabbix_agentd -c /etc/zabbix/zabbix_agentd.conf
             └─2687 /usr/sbin/zabbix_agentd: collector [idle 1 sec]
               └─2688 /usr/sbin/zabbix_agentd: listener #1 [waiting for connection]
                 └─2689 /usr/sbin/zabbix_agentd: listener #2 [waiting for connection]
                   └─2690 /usr/sbin/zabbix_agentd: listener #3 [waiting for connection]
                     └─2691 /usr/sbin/zabbix_agentd: active checks #1 [idle 1 sec]

May 13 12:13:31 agent systemd[1]: Starting Zabbix Agent...
May 13 12:13:31 agent systemd[1]: zabbix-agent.service: Can't open PID file /run/zabbix/zabbix_
May 13 12:13:31 agent systemd[1]: zabbix-agent.service: Supervising process 2685 which is not c
May 13 12:13:31 agent systemd[1]: Started Zabbix Agent.
lines 1-17/17 (END)
```

The last but not least, you will need to open port 10050:

```
sudo ufw allow 10050/tcp
```

Now the agent is up and running!

7) Adding the new host to the Zabbix server

In this step we will add the agent to the Zabbix server, so we can monitor it.

We go back to the GUI. Now login with the default credentials. Right here, you have to click “Configuration” and then “Hosts”. Now click on the “Create host” button. Here we can add one.

The screenshot shows the Zabbix web interface in a Mozilla Firefox browser window. The browser's address bar displays the URL `172.27.66.141/zabbix/`. The Zabbix logo is visible in the top left corner. The navigation menu at the top includes **Monitoring**, **Inventory**, **Reports**, **Configuration**, and **Administration**. The main content area is titled **Global view** and contains several sections: **System information** (showing parameters like 'Zabbix server is running'), **Problems by severity** (showing a table of issues), and a **Problems** section at the bottom with a table of recent events. A blue arrow points to the **Configuration** menu item.

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled/templates)	85	1 / 0 / 84
Number of items (enabled/disabled/not supported)	79	73 / 0 / 6
Number of triggers (enabled/disabled [problem/ok])	48	48 / 0 [2 / 46]
Number of users (online)	2	1

Time	Info	Host	Problem • Severity	Duration	Ack	Actions	Tags
13:10:51		Zabbix server	Zabbix agent on Zabbix server is unreachable for 5 minutes	1h 9m 50s	No		
2020-05-06 15:56:30		Zabbix server	Lack of free swap space on Zabbix server	6d 22h 24m	No		

The image consists of two screenshots of the Zabbix web interface, stacked vertically. Both screenshots are taken from a Mozilla Firefox browser window.

Top Screenshot: Global view

- Browser Tab:** Dashboard
- URL:** 172.27.66.141/zabbix/zabbix.php?action=dashboard.view
- Navigation:** Monitoring, Inventory, Reports, Configuration, Administration
- Global view:**
 - System information:**

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled/templates)	85	1 / 0 / 84
Number of items (enabled/disabled/not supported)	79	73 / 0 / 6
Number of triggers (enabled/disabled [problem/ok])	48	48 / 0 [2 / 46]
Number of users (online)	2	1
 - Problems by severity:**

Host group	Disaster	High	Average	Warning	Information	Not classified
Zabbix servers	1	1				
 - Problems:**

Time	Info	Host	Problem • Severity	Duration	Ack	Actions	Tags
13:10:51		Zabbix server	Zabbix agent on Zabbix server is unreachable for 5 minutes	1h 11m 50s	No		
2020-05-06 15:56:30		Zabbix server	Lack of free swap space on Zabbix server	6d 22h 26m	No		
 - Local:** A clock showing the local time.
 - Favourite maps:** No maps added.

Bottom Screenshot: Configuration of hosts

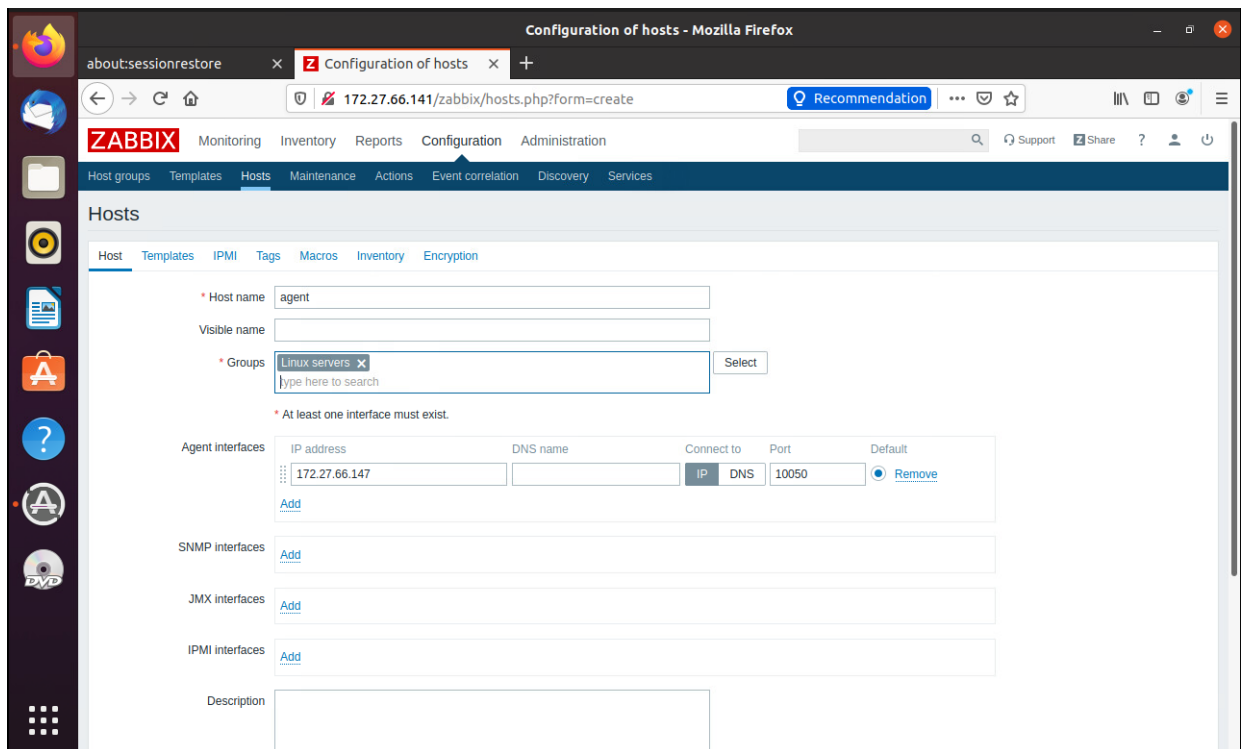
- Browser Tab:** Configuration of hosts
- URL:** 172.27.66.141/zabbix/hosts.php?ddreset=1
- Navigation:** Monitoring, Inventory, Reports, Configuration, Administration
- Hosts:**
 - Form:**
 - Name:** [Text input field]
 - Templates:** [Text input field] [Select]
 - DNS:** [Text input field]
 - IP:** [Text input field]
 - Port:** [Text input field]
 - Monitored by:** Any, Server, Proxy
 - Proxy:** [Text input field] [Select]
 - Tags:** And/Or, Or, tag, Contains, Equals, value, Remove, Add
 - Buttons:** Apply, Reset
 - Table:**

Name	Applications	Items	Triggers	Graphs	Discovery	Web	Interface	Templates	Status	Availability	Agent encryption	Info	Tags	
Zabbix server	Applications 11	Items 79	Triggers 48	Graphs 11	Discovery 2	Web	127.0.0.1:10050	Template App Zabbix Server, Template OS Linux (Template App Zabbix Agent)	Enabled	2BX	SNMP	JMX	IPMI	NONE
 - Buttons:** Create host, Import, Filter
 - Footer:** Zabbix 4.2.8. © 2001–2019, Zabbix SIA

First adjust the hostname and the IP address of the agent. To find the host name on the agent, type:

Hostnamectl

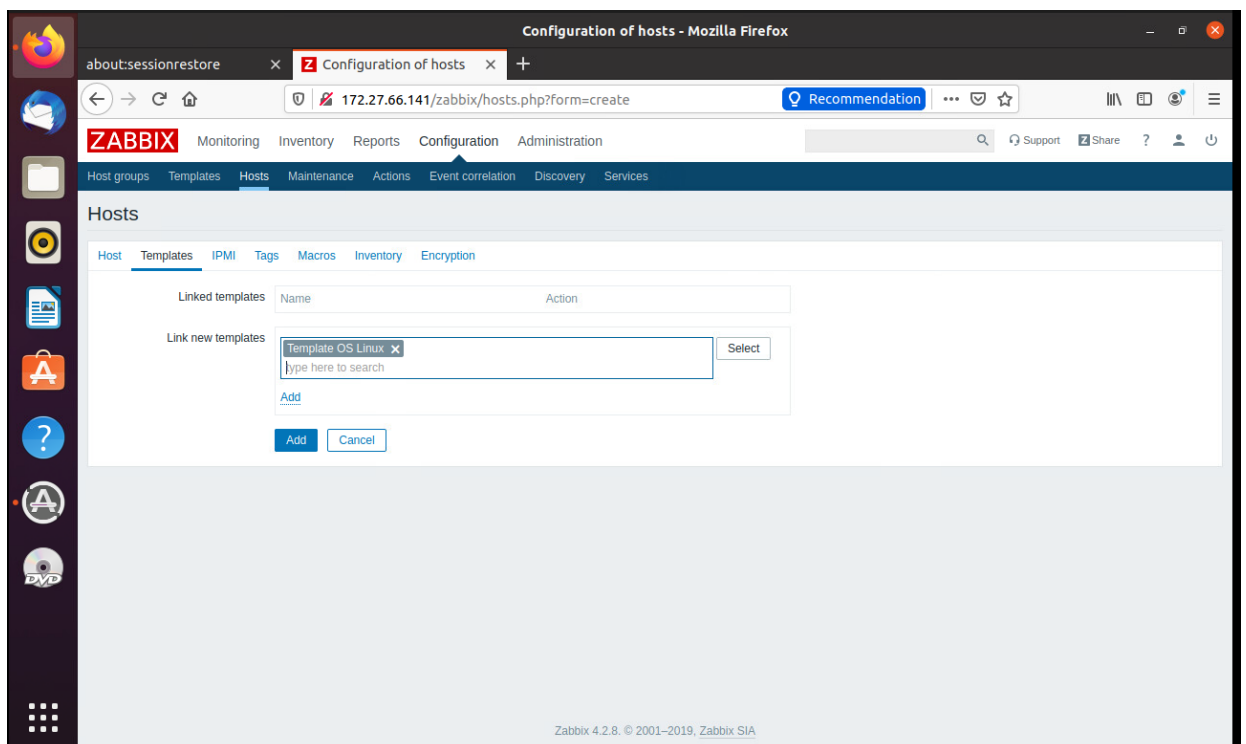
Now you can add this one to a group of your choice, or create a new one.



The screenshot shows the Zabbix web interface in Mozilla Firefox. The browser address bar shows the URL `172.27.66.141/zabbix/hosts.php?form=create`. The Zabbix navigation menu is visible, with 'Configuration' selected. The 'Hosts' page is active, showing the 'Host' tab. The form contains the following fields:

- Host name:** `agent`
- Visible name:** (empty)
- Groups:** A dropdown menu showing 'Linux servers' and a search box with the text 'type here to search'. A 'Select' button is next to it.
- Agent interfaces:** A table with columns: IP address, DNS name, Connect to, Port, and Default. The first row has the IP address `172.27.66.147`, 'IP' selected for 'Connect to', and port `10050`. A 'Remove' button is next to the port. An 'Add' button is below the table.
- SNMP interfaces:** An 'Add' button.
- JMX interfaces:** An 'Add' button.
- IPMI interfaces:** An 'Add' button.
- Description:** (empty text area)

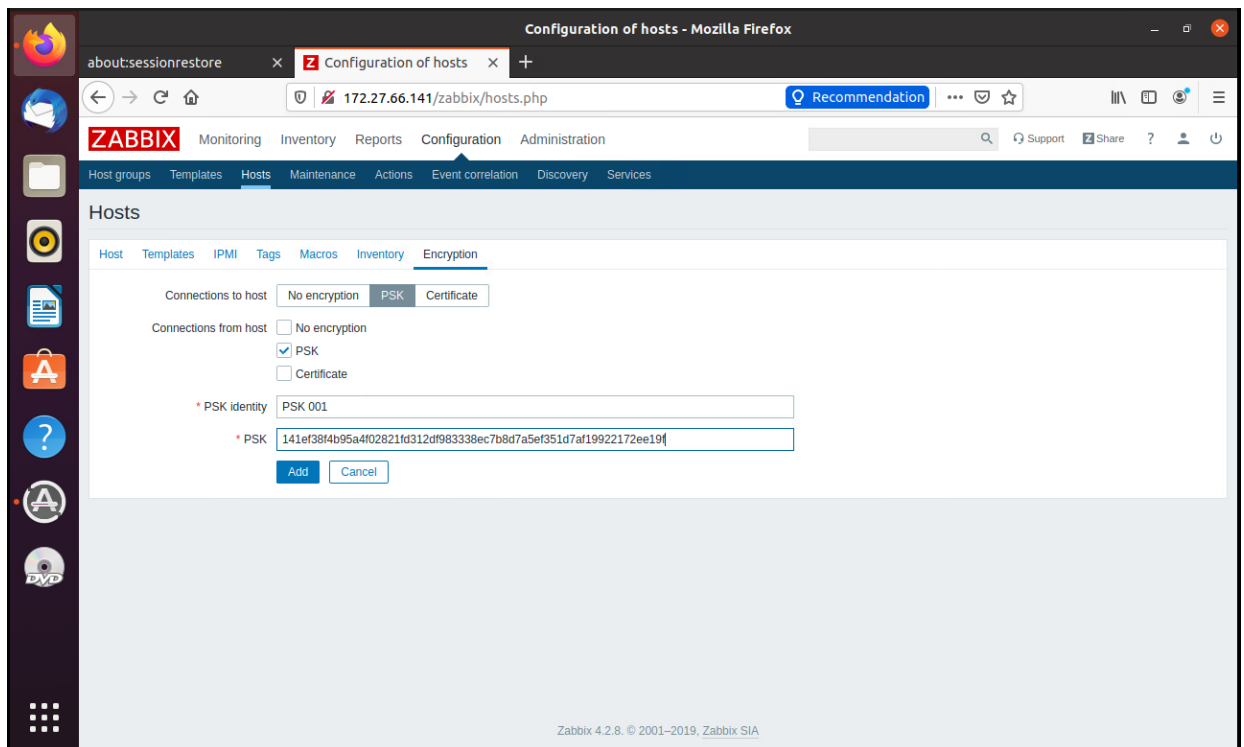
Done? Click now the templates tab. We've created a Linux vm, so we type "Template OS Linux" and click Add.



The screenshot shows the Zabbix web interface with the 'Templates' tab selected. The form contains the following fields:

- Linked templates:** A table with columns: Name, Action.
- Link new templates:** A dropdown menu showing 'Template OS Linux' and a search box with the text 'type here to search'. A 'Select' button is next to it.
- Add:** A blue button.
- Cancel:** A button.

Finally we need to go the encryption tab. Select only PSK and set the PSK identity to the one you choose in the configuration file. Remember the generated key? You'll need to type in the PSK field. When you're ready, press Add.



You've officially added a new host to the Zabbix server.

8) Configuring notifications

Zabbix also uses something nice to use. You can use notifications for email when for example you're server doesn't work. First of all, you need to create an email account. For this tutorial, we'll use gmail.

Once done, we need to install ssmtp on the linux with GUI:

```
Sudo apt-get update
```

```
sudo apt-get install ssmtp
```

Now, we need to edit this file:

```
Sudo nano /etc/ssmtp/ssmtp.conf
```

You should change the settings to this:

```
GNU nano 4.8 /etc/ssmtp/ssmtp.conf
#
# Config file for sSMTP sendmail
#
# The person who gets all mail for userids < 1000
# Make this empty to disable rewriting.
root=gmail

# The place where the mail goes. The actual machine name is required no
# MX records are consulted. Commonly mailhosts are named mail.domain.com
mailhub=smtp.gmail.com:465
FromLineOverride=YES
AuthUser=gmail
AuthPass=wachtwoord
# Where will the mail seem to come from?
#rewriteDomain=

# The full hostname
UseTLS=YES

# Are users allowed to set their own From: address?

^G Get Help  ^O Write Out ^W Where Is  ^K Cut Text  ^J Justify   ^C Cur Pos
^X Exit      ^R Read File ^\ Replace   ^U Paste Text^T To Spell  ^_ Go To Line
```

Change root to your gmail account, AuthUser to your gmail account and AuthPass to your email password!

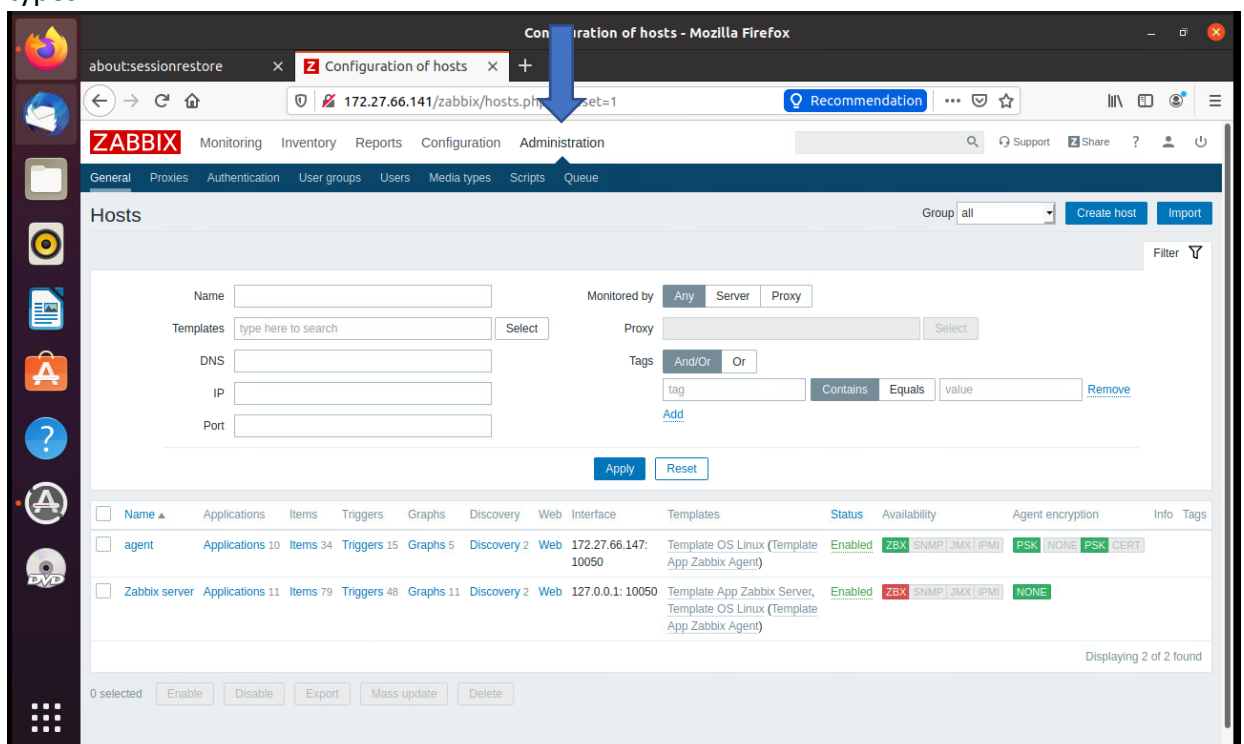
It's recommended to test this already out with the following command:

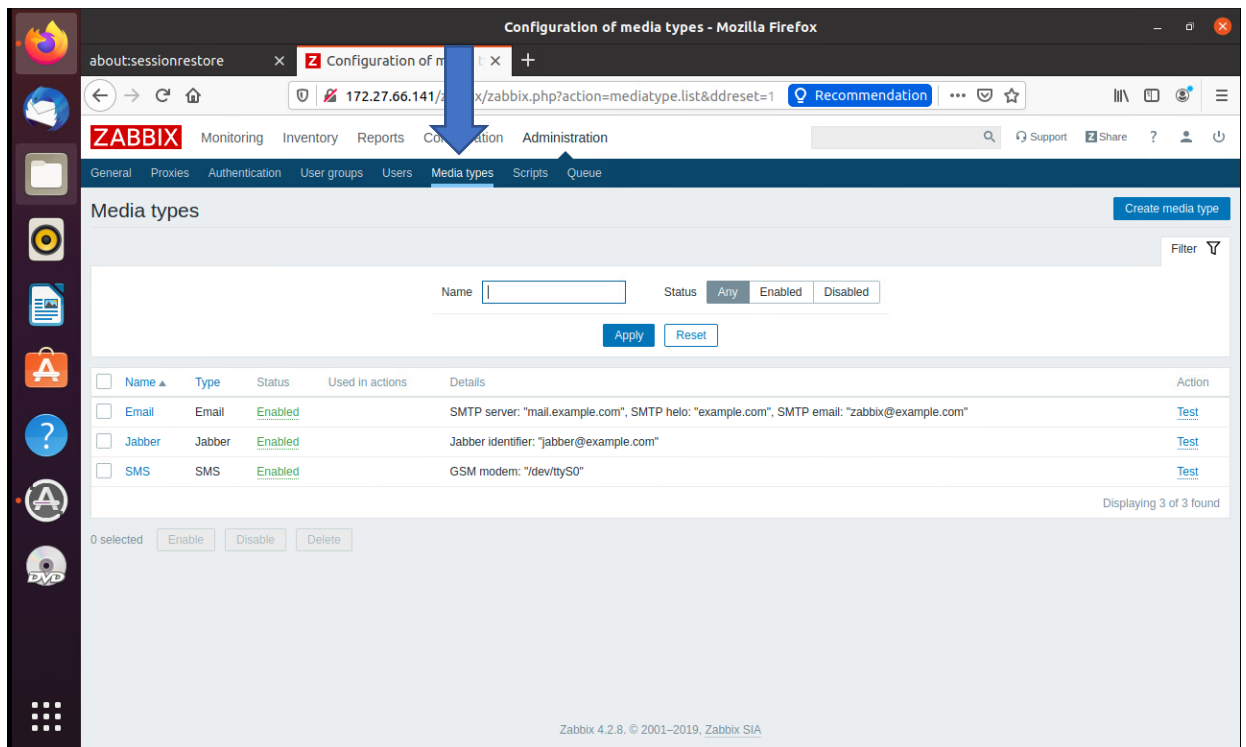
`echo "E-Mail using the command-line" | ssmtp email@gmail.com`

You should have received an email!

Now we are going to configure Zabbix, so an email will sent everytime something will go wrong.

To do so, click on administration and then media types:





In this screen, you can press email. You can adjust the settings here like I do in the screenshot! I use an outlook email:

The screenshot shows the Zabbix web interface for configuring a media type. The browser address bar shows the URL `172.27.66.141/zabbix/zabbix.php?action=mediatype.edit&me`. The page title is "Configuration of media types - Mo". The navigation tabs include General, Proxies, Authentication, User groups, Users, Media types, Scripts, and Queue. The "Media types" tab is selected, and the "Options" sub-tab is active.

The configuration form for the media type "Email" includes the following fields and options:

- Name:** Email
- Type:** Email (dropdown menu)
- * SMTP server:** smtp.gmail.com
- SMTP server port:** 465
- * SMTP helo:** gmail.com
- * SMTP email:** test@gmail.com
- Connection security:** None, STARTTLS, SSL/TLS (SSL/TLS is selected)
- SSL verify peer:** ☒
- SSL verify host:** ☒
- Authentication:** None, Username and password (Username and password is selected)
- Username:** test@gmail.com
- Password:** Change password (button)
- Message format:** HTML, Plain text (HTML is selected)
- Enabled:** ☒


At the bottom of the form are four buttons: Update, Clone, Delete, and Cancel.

So what should we change?

- Name → Just give it a name, doesn't care what it is.
- Type → Should be email, obviously!
- SMTP server → This should be the smtp server of the mail service you're using. For gmail, it's "smtp.gmail.com".
- SMTP server port → This needs to be port 465
- SMTP helo → This is the domain name of your email.
- SMTP email → This is your email account
- Connection security → We would like to send the email over an SSL/TLS connection.
- Authentication → Use your username and password for your email.

Click update now.

You can test this, by clicking on the test button

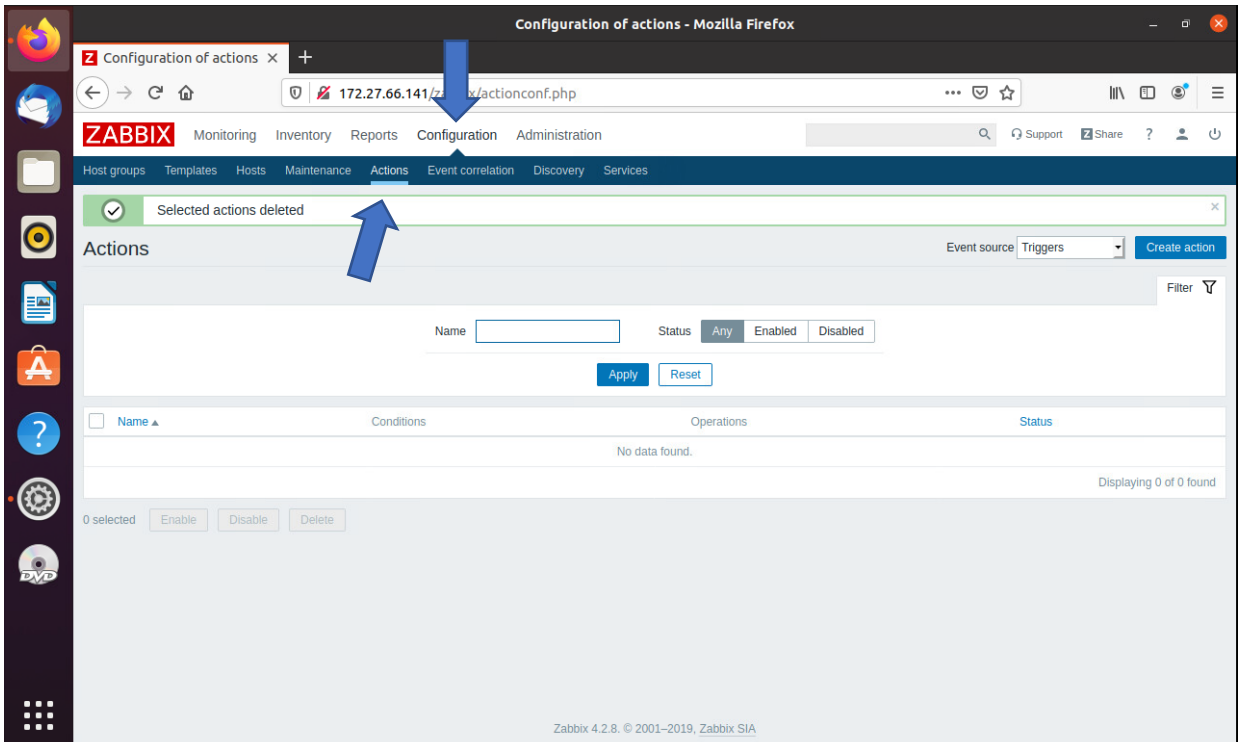


<input type="checkbox"/>	Name ▲	Type	Status	Used in actions	Details	Action
<input type="checkbox"/>	Email	Email	Enabled		SMTP server: "smtp.gmail.com", SMTP helo: "gmail.com", SMTP email: "projecthostinggroep4@gmail.com"	Test
<input type="checkbox"/>	Jabber	Jabber	Enabled		Jabber identifier: "jabber@example.com"	Test
<input type="checkbox"/>	SMS	SMS	Enabled		GSM modem: "/dev/ttyS0"	Test

Displaying 3 of 3 found

You should have received a mail from Zabbix.

Now let's go to the configuration menu and action option:



Configuration of actions - Mozilla Firefox

172.27.66.141/zabbix/actionconf.php

ZABBIX Monitoring Inventory Reports Configuration Administration

Host groups Templates Hosts Maintenance **Actions** Event correlation Discovery Services

Selected actions deleted

Actions

Event source: Triggers [Create action](#)

Name Status: Any Enabled Disabled [Filter](#)

[Apply](#) [Reset](#)

<input type="checkbox"/>	Name ▲	Conditions	Operations	Status
				No data found.

Displaying 0 of 0 found

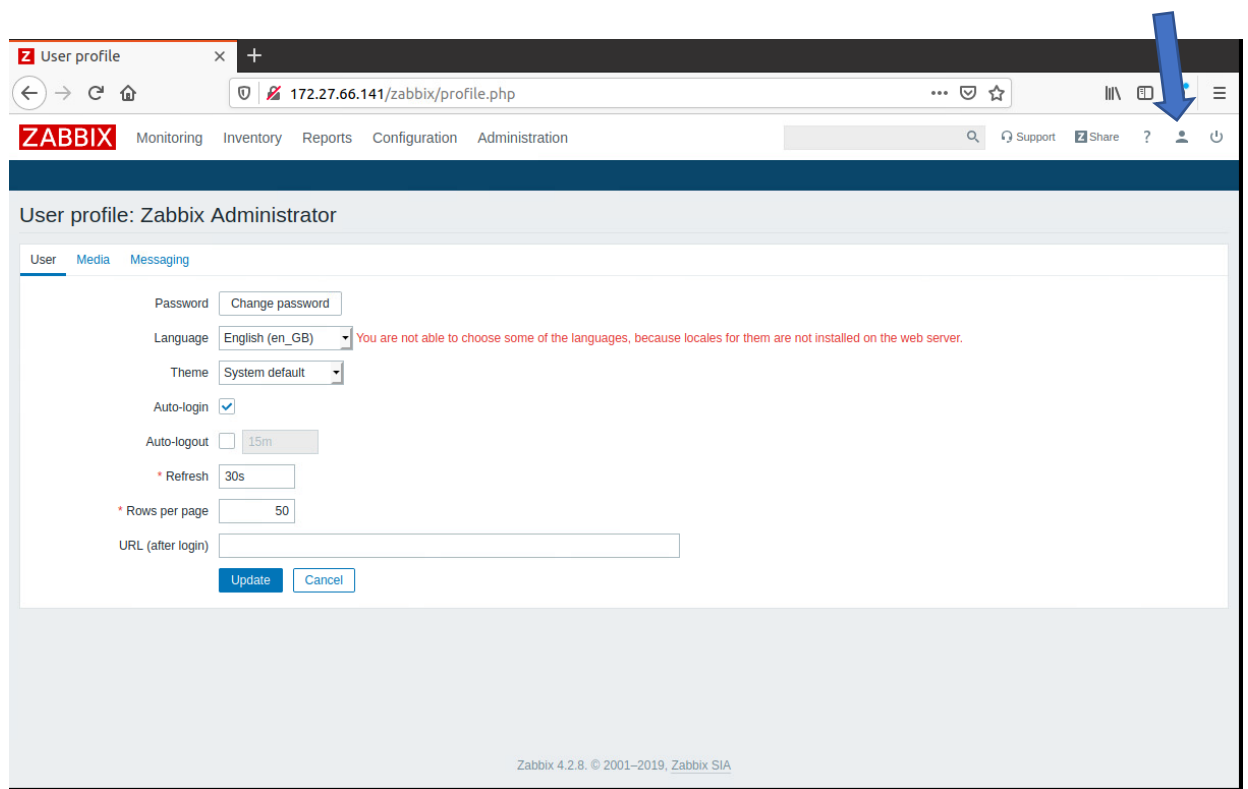
0 selected [Enable](#) [Disable](#) [Delete](#)

Zabbix 4.2.8. © 2001–2019, Zabbix SIA

Here you should already see an action! Click on the red status 'disabled' to enable this.

The last step is to assign an email address to the admin.

On the top right, you can access the profile settings:



If you click on media, you can use the email address we've already used so much.

And that's it! Now you can play around with the settings. You can change the notification settings so you only receive warnings when there's a critical alert, when something happens on server x,...