

Install Zabbix from Source on Centos 7

## Dependências

```
yum update
yum install -y wget vim readline-devel libtool-devel zlib-devel unzip curl-devel net-snmp-devel
yum install -y libevent-devel epel-release libpng libpng-devel libjpeg libjpeg-devel
yum install -y postgresql-libs yum install gmp-devel bzip2-devel bzip2 libxml2-devel
yum install -y net-snmp-devel libevent-devel
yum install -y libXpm-devel pcre-devel gcc-c++ freetype-devel-x86_64
yum install -y libspelling*
yum install -y aspell-devel.x86_64
yum group install "Development Tools"
yum install -y libjpeg*
yum install -y freetype-devel*
yum install -y libssh2*
```

## INTERFACE DE REDE

```
TYPE=Ethernet
BOOTPROTO=static
IPADDR=192.168.100.25
NETMASK=255.255.255.0
GATEWAY=192.168.100.1
broadcast=192.168.100.255
NAME=enp0s3
DEVICE=enp0s3
ONBOOT=yes
```

# Primeiro Instalação do Banco de Dados PostgreSQL

#Download Postgres-9.6.9

Deixe o Arquivo no diretório /usr/local/src/ como um local padrão para os arquivos que serão baixados.

```
wget https://ftp.postgresql.org/pub/source/v9.6.5/postgresql-9.6.5.tar.gz
```

#Descompactar com o comando:

```
postgres@localhost:/usr/local/src
[root@localhost src]# pwd
/usr/local/src
[root@localhost src]# tar -zxvf postgresql-9.6.5.tar.gz
```

`tar -zxvf postgresql-9.6.5.tar.gz`

#E depois é necessário compilar e Instalar com os seguintes comandos:

```
postgres@localhost:/usr/local/src/postgresql-9.6.5
[root@localhost postgresql-9.6.5]# pwd
/usr/local/src/postgresql-9.6.5
[root@localhost postgresql-9.6.5]# ./configure --prefix=/var/lib/psql96 && make && make install
```

Entre dentro da pasta do postgres descompactado e compile

`cd postgresql-9.6.5`

`./configure --prefix=/var/lib/psql96 && make && make install`

#Adicionar usuário:

```
postgres@localhost:/usr/local/src/postgresql-9.6.5
[root@localhost postgresql-9.6.5]# adduser postgres
```

`adduser postgres`

#Criar pasta do banco de dados:

```
postgres@localhost:/var/lib/psql96/bin
[root@localhost bin]# mkdir /opt/pgdata/
```

Crie uma pasta :

`mkdir /opt/pgdata`

```
postgres@localhost:/var/lib/psql96/bin
[root@localhost bin]# chown postgres. /opt/pgdata/
```

chown postgres. /opt/pgdata

#Inicializar dados do diretório do PostgreSQL

```
postgres@localhost:/var/lib/psql96/bin
[root@localhost bin]# su - postgres -c "/var/lib/psql96/bin/initdb -D /opt/pgdata"
```

É recomendável que seja escrito e não copiado e colado, para não dar error.

su - postgres -c "/var/lib/psql96/bin/initdb -D /opt/pgdata"

#Criar Arquivo de inicialização

```
postgres@localhost:/var/lib/psql96/bin
[root@localhost bin]# vim /usr/lib/systemd/system/postgresql.service
```

vim /usr/lib/systemd/system/postgresql.service

#Adicione as seguintes linhas no arquivo :

[Unit]

Description=Postgresql-9.6 Service

After=syslog.target systemd-user-sessions.service

[Service]

User=postgres

Group=postgres

Type=forking

TimeoutSec=120

ExecStart=/var/lib/psql96/bin/pg\_ctl -D /opt/pgdata -l /opt/pgdata/startup.log start

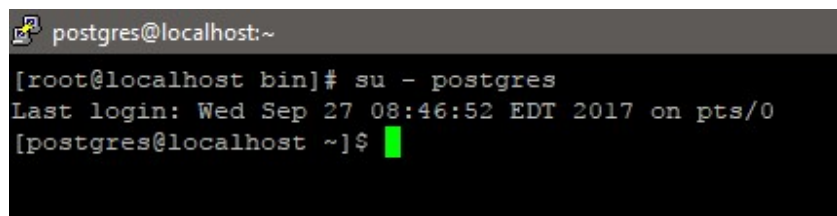
ExecStop=/var/lib/psql96/bin/pg\_ctl -D /opt/pgdata -l /opt/pgdata/startup.log stop

ExecReload=/var/lib/psql96/bin/pg\_ctl -D /opt/pgdata -l /opt/pgdata/startup.log reload

[Install]

WantedBy=multi-user.target

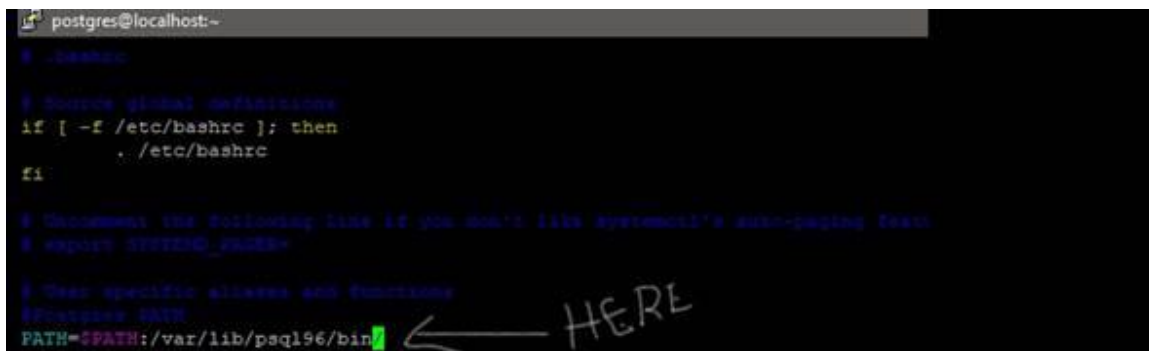
#Troque de usuario:

A terminal window showing a user switch. The prompt is postgres@localhost:~. The user runs [root@localhost bin]# su - postgres. The output shows the last login: Wed Sep 27 08:46:52 EDT 2017 on pts/0. The prompt changes to [postgres@localhost ~]\$ with a green cursor.

su - postgres

#Adicione PATH no usuario Postgres

vim ~/.bashrc

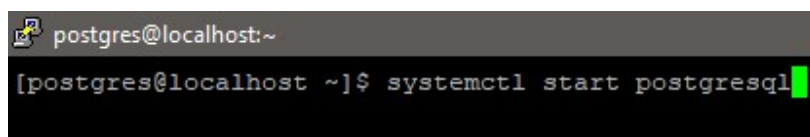
A terminal window showing the content of the ~/.bashrc file. The text includes comments about sourcing global definitions, a conditional statement for /etc/bashrc, a comment about the systemctl --quiet flag, and a section for user-specific aliases and functions. The line PATH=\$PATH:/var/lib/psql96/bin/ is highlighted with a green cursor. A handwritten arrow points to this line with the word "HERE" written next to it.

PATH=\$PATH:/var/lib/psql96/bin/

#Saia do usuario Postgres

exit

#Iniciar Banco de Dados

A terminal window showing the command to start the postgresql service. The prompt is postgres@localhost:~. The user runs [postgres@localhost ~]\$ systemctl start postgresql. The command is followed by a green cursor.

```
systemctl start postgresql
```

Criptografia MD5 no Postgresql

Download MD5 Checksum

```
wget http://www.winmd5.com/download/winmd5free.zip
echo $?
md5sum winmd5free.zip
echo $?
```

#Alter permissão do servidor

```
vim /opt/pgdata/pg_hba.conf
```

```
[root@zabbix src1# vim /opt/pgdata/pg_hba.conf
```

```
# "host" records.  In that case you will also need to make PostgreSQL
# listen on a non-local interface via the listen_addresses
# configuration parameter, or via the -i or -h command line switches.

# CAUTION: Configuring the system for local "trust" authentication
# allows any local user to connect as any PostgreSQL user, including
# the database superuser.  If you do not trust all your local users,
# use another authentication method.

# TYPE  DATABASE        USER            ADDRESS           METHOD
# "local" is for Unix domain socket connections only
local   all         all                                trust
# IPv4 local connections:
host    all         all             127.0.0.1/32      trust
host    all         all             192.168.100.25/24 trust
# IPv6 local connections:
host    all         all             ::1/128           trust
# Allow replication connections from localhost, by a user with the
# replication privilege.
#local   replication  postgres        trust
#host     replication  postgres        127.0.0.1/32      trust
#host     replication  postgres        ::1/128           trust
"/opt/pgdata/pg_hba.conf" 94L, 4492C                               87,1          Bot
```

O que esta com 'trust' passar para 'md5'

```
[root@zabbix src1# vim /opt/pgdata/postgresql.conf _
```

```
vim /opt/pgdata/postgresql.conf
```

Edite as seguintes opções

listen\_addresses = '\*'; para todos acessarem ele  
port= 5432

```
#ident_file = 'ConfigDir/pg_ident.conf' # ident configuration file
#                                     # (change requires restart)

# If external_pid_file is not explicitly set, no extra PID file is written.
#external_pid_file = ''                # write an extra PID file
#                                     # (change requires restart)

#-----
# CONNECTIONS AND AUTHENTICATION
#-----

# - Connection Settings -

listen_addresses = '*'                # what IP address(es) to listen on;
#                                     # comma-separated list of addresses;
#                                     # defaults to 'localhost'; use '*' for a
ll                                     # (change requires restart)
port = 5432                            # (change requires restart)
max_connections = 100                 # (change requires restart)
#superuser_reserved_connections = 3   # (change requires restart)
#unix_socket_directories = '/tmp'     # comma-separated list of directories
#                                     # (change requires restart)
66,35-41                             7%
```

Reinicie o Postgres

```
#systemctl restart postgresql.service
```

Instalação Apache2

#Deixe o Arquivo no diretório /usr/local/src/ como um local padrão para os arquivos que serão baixados.

#Download HTTP

```
wget https://archive.apache.org/dist/httpd/httpd-2.4.9.tar.gz
```

```
wget http://ftp.unicamp.br/pub/apache/apr/apr-1.6.5.tar.gz
```

```
wget https://archive.apache.org/dist/apr/apr-util-1.5.4.tar.gz
```

#Descompactar httpd

```
postgres@localhost:usr/local/src
[root@localhost src]# tar -zxvf apr-util-1.5.4.tar.gz && tar -zxvf apr-1.6.2.tar.gz && tar -zxvf httpd-2.4.9.tar.gz
```

tar -zxvf apr-util-1.5.4.tar.gz && tar -zxvf apr-1.6.5.tar.gz && tar -zxvf httpd-2.4.9.tar.gz

### #Mover pacotes para http

```
[root@localhost src]# mv apr-1.6.2 httpd-2.4.9/src/lib/apr
[root@localhost src]# mv apr-util-1.5.4 httpd-2.4.9/src/lib/apr-util
[root@localhost src]# _
```

mv apr-1.6.5 httpd-2.4.9/src/lib/apr

mv apr-util-1.5.4 httpd-2.4.9/src/lib/apr-util

### #Compilação do pacote

Entre dentro da pasta do httpd-2.4.9

cd httpd-2.4.9

```
[root@localhost bin]# ./configure --enable-ssl --enable-so --with-included-apr-util && make && make install_
```

./configure --enable-ssl --enable-so --with-included-apr-util && make && make install

### #Iniciar o httpd

```
[root@localhost bin]# cd /usr/local/apache2/bin/
[root@localhost bin]# ./apachectl start_
```

cd /usr/local/apache2/bin/

./apachectl start

# Criação de arquivo de inicialização

vim /etc/profile.d/httpd.sh

pathmunge /usr/local/apache2/bin

vim /etc/systemd/system/httpd.service

#Escreva

[Unit]

Description=The Apache HTTP Server

After=network.target

[Service]

Type=forking

ExecStart=/usr/local/apache2/bin/apachectl -k start

ExecReload=/usr/local/apache2/bin/apachectl -k gracefull

ExecStop=/usr/local/apache2/bin/apachectl -k gracefull -stop

PIDFile=/usr/local/apache2/logs/httpd.pid

PrivateTmp=true

[Install]

WantedBy=multi-user.target

#Reinicie o daemon

systemctl daemon-reload

systemctl start httpd

systemctl enable httpd

## INSTALAÇÃO PHP 7.1

#Deixe o Arquivo no diretorio /usr/local/src/ como um local padrão para os arquivos que serão baixados.

Download:

wget <http://br2.php.net/get/php-7.1.9.tar.gz/from/this/mirror>



```
[root@localhost src]# pwd
/usr/local/src
[root@localhost src]#
[root@localhost src]# wget http://br2.php.net/get/php-7.1.9.tar.gz/from/this/mirror
--2017-09-28 08:52:33-- http://br2.php.net/get/php-7.1.9.tar.gz/from/this/mirror
Resolving br2.php.net (br2.php.net)... 177.55.120.24
Connecting to br2.php.net (br2.php.net):177.55.120.24:80... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: http://br2.php.net/distributions/php-7.1.9.tar.gz [following]
--2017-09-28 08:52:33-- http://br2.php.net/distributions/php-7.1.9.tar.gz
Connecting to br2.php.net (br2.php.net):177.55.120.24:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 19423408 (19M) [application/x-gzip]
Saving to: 'mirror'
100% [*****] 6.517.199 4.17MB/s
```

Descompactar:

```
postgres@localhost:/usr/local/src
[root@localhost src]# mv mirror php-7.1.9.tar.gz
[root@localhost src]# tar -zxvf php-7.1.9.tar.gz
```

renomeie o arquivo do php:

`mv mirror php-7.1.9.tar.gz`

Descompacte o arquivo

`tar -zxvf php-7.1.9.tar.gz`

## Configurar e Instalar

Entre dentro da pasta php-7.1.9

`#cd php-7.1.9`

`./configure --prefix=/usr --sysconfdir=/etc --localstatedir=/var  
datadir=/usr/share/php --mandir=/usr/share/man --enable-fpm --with-fpm-user=apache --with-  
fpm-group=apache --with-config-file-path=/etc --with-zlib --enable-bcmath --with-bz2 --enable-  
calendar --enable-dba=shared --with-gdbm --with-gmp --enable-ftp --with-gettext --enable-  
mbstring --with-readline --with-apxs2=/usr/local/apache2/bin/apxs --with-pgsql=/var/lib/pgsql96  
--enable-sockets --with-gd --with-jpeg-dir=/usr/local/lib --with-freetype-dir=/usr/local/lib`

## Compilar

`make && make install`

Copiar arquivo do php.ini-development para /etc

`cp php.ini-development /etc`

cd /etc

Renomeie o arquivo

mv php.ini-development php.ini

```
[root@localhost php-7.1.9]# cp php.ini-development /etc/php.ini_
```

Editar o arquivo httpd.conf para carregar o módulo do PHP:

```
[root@localhost conf]# pwd
/usr/local/apache2/conf
[root@localhost conf]# vim httpd.conf _
```

vim /usr/local/apache2/conf/httpd.conf

Adicione no final do arquivo as linhas:

AddType application/x-httpd-php .php .html

AddType application/x-httpd-php-source .phps


```
# Violate open standards by misusing DNT (DNT *must* be a specific
# end-user choice)
#
#<IfModule setenvif_module>
#BrowserMatch "MSIE 10.0;" bad_DNT
#</IfModule>
#<IfModule headers_module>
#RequestHeader unset DNT env=bad_DNT
#</IfModule>
AddType application/x-httpd-php .php .html
AddType application/x-httpd-php-source .phps
"/usr/local/apache2/conf/httpd.conf" 509L, 18495C 509,44 Bo
```

Crie um arquivo para testar o php.

```
[root@localhost htdocs]# pwd
/usr/local/apache2/htdocs
[root@localhost htdocs]# vim info.php _
```

vim /usr/local/apache2/htdocs/info.php

Adicione a seguinte linha:



```
<?php phpinfo(); ?>
```

<?php phpinfo(); ?>

Agora reinicie o Apache

```
# service httpd restart
```

Para testar abra seu navegador e digite: <your\_ip>/info.php

## Zabbix

#Download zabbix from source

#Deixe o Arquivo no diretório /usr/local/src/ como um local padrão para os arquivos que serão baixados.

wget <https://sourceforge.net/projects/zabbix/files/ZABBIX%20Latest%20Stable/3.4.2/zabbix-3.4.2.tar.gz>

# Descompactar o Código

```
tar -zxvf zabbix-3.4.2.tar.gz
```

#Criar um usuário

```
groupadd zabbix
```

```
useradd -g zabbix zabbix
```

# Trocar de usuário

```
su – postgres
```

# Criar usuario zabbix

```
/var/lib/pgsql96/bin/createuser zabbix
```

#Criar banco de dados do zabbix

```
/var/lib/pgsql96/bin/createdb zabbix
```

#Popular o BD

```
/var/lib/psql96/bin/psql -U zabbix < /usr/local/src/zabbix-3.4.2/database/postgresql/schema.sql
```

```
/var/lib/psql96/bin/psql -U zabbix < /usr/local/src/zabbix-3.4.2/database/postgresql/images.sql
```

```
/var/lib/psql96/bin/psql -U zabbix < /usr/local/src/zabbix-3.4.2/database/postgresql/data.sql
```

#Entre na pasta aonde o zabbix está localizado, claro que antes deve mudar de usuário, para o usuário root:

#Você pode tanto sair: exit ou su root e coloque sua senha.

#Deixe o Arquivo no diretorio /usr/local/src/ como um local padrão para os arquivos que serão baixados.

#Configura o pacote

#Entre dentro da pasta do zabbix

```
cd zabbix-3.4.2
```

```
./configure --enable-server --enable-agent --with-postgresql=/var/lib/psql96/bin/pg_config --with-net-snmp --with-libcurl --with-libxml2 --with-ssh2
```

# Compilando

```
make && make install
```

#Configurando a inicialização

# Dentro da pasta de instalação do Zabbix

```
cp -Rpv misc/init.d/fedora/core5/zabbix_* /etc/init.d/
```

#Dar permissão de inicialização

```
chmod +x /etc/init.d/za*
```

```
chkconfig --add zabbix_server
```

```
chkconfig --add zabbix_agentd
```

```
chkconfig --level 35 zabbix_server on
```

```
chkconfig --level 35 zabbix_agentd on
```

#Iniciar o Zabbix\_Server && Zabbix\_Agent

```
/etc/init.d/zabbix_server start
```

```
/etc/init.d/zabbix_agentd start
```

#Parar o Zabbix\_Server && Zabbix\_Agent

```
/etc/init.d/zabbix_server stop  
/etc/init.d/zabbix_agentd stop
```

#Configurar o Zabbix\_Agent

```
vim /usr/local/etc/zabbix_agentd.conf
```

```
#line 145  
Hostname=zabbix  
#line 93  
Server=192.168.100.45 # IP of Server
```

```
#line 101  
ListenPort=10050
```

#Configurar o Zabbix\_Server

```
vim /usr/local/etc/zabbix_server.conf
```

```
#line 85  
DBHost=192.168.100.45  
#line 95  
DBName=zabbix  
#line 111  
DBUser=zabbix  
#line 119  
DBPassword=zabbix
```

#Iniciar os serviços

```
#Entre na pasta /usr/local/etc/  
cd /usr/local/etc/
```

```
chmod 755 zabbix_agentd.conf  
chmod 755 zabbix_server.conf  
./zabbix_agentd.conf  
./zabbix_server.conf
```

#Instalar Zabbix web Interface

```
cd /usr/local/src/zabbix-3.4.2  
cd frontends/php  
cp -a . /usr/local/apache2/htdocs/zabbix
```

# Configurar os pre-requisitos do PHP

```
vim /etc/php.ini
```

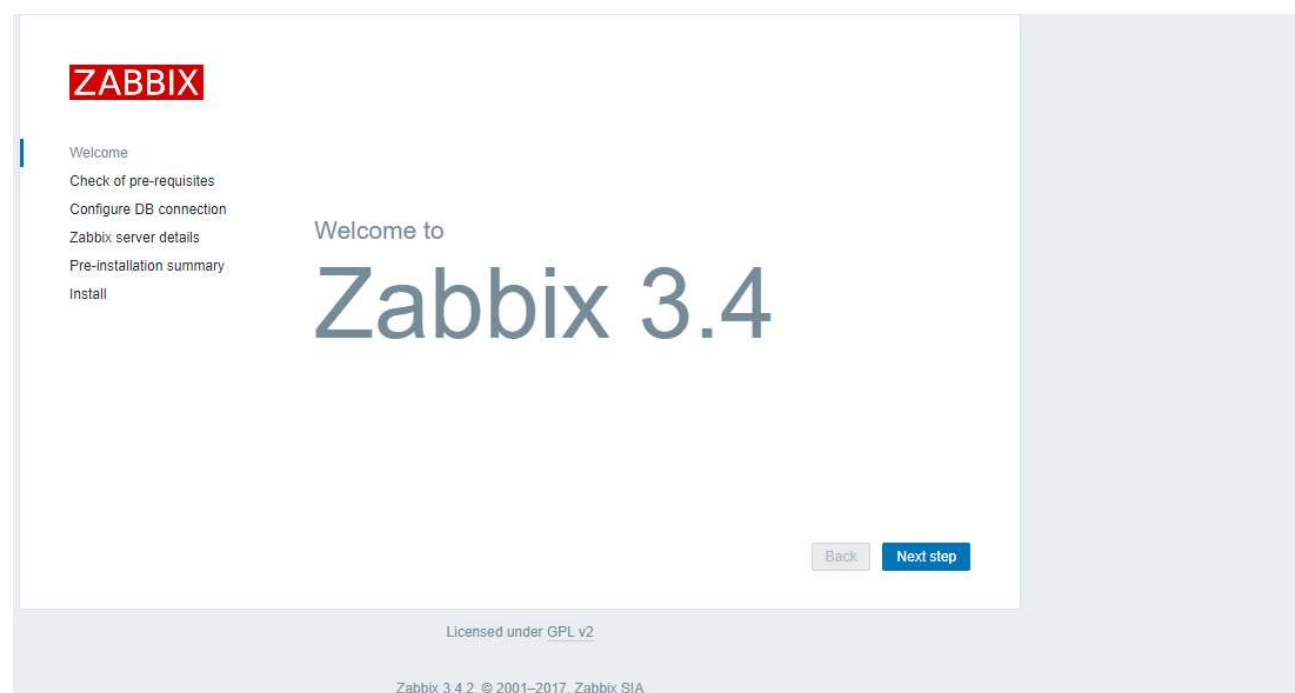
```
#line 672  
post_max_size = 16M
```

```
#line 383
max_execution_time = 300

#line 939
date.timezone = "America/Sao_Paulo"

#line 394
max_input_time = 300
# Restart seu Apache
systemctl restart httpd.service
# Teste em um navegador: <your_ip/zabbix/index.php>
```

## Configuração do Zabbix





## Check of pre-requisites

Welcome

Check of pre-requisites

Configure DB connection

Zabbix server details

Pre-installation summary

Install

	Current value	Required	
PHP version	7.1.9	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"	America/Sao_Paulo		OK
PHP databases support	PostgreSQL		OK
PHP bcmath	on		OK
PHP mbstring	on		OK
PHP option "mbstring.func_overload"	off	off	OK

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Next step



## Configure DB connection

database. Press "Next step" button when done.

Details

Cannot connect to the database.

Error connecting to database.

Database type	PostgreSQL ▼
Database host	192.168.100.25
Database port	5432 0 - use default port
Database name	zabbix
Database schema	zabbix
User	zabbix
Password	*****

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Next step

Erro de Conexao com o Banco de Dados

Outro problema



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

## Configure DB connection

database. Press "Next step" button when done.

**Details** Cannot connect to the database.  
The frontend does not match Zabbix database.

Database type	PostgreSQL ▼
Database host	192.168.100.25
Database port	5432 0 - use default port
Database name	zabbix
Database schema	zabbix
User	zabbix
Password	*****

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Deixe em branco Database schema



- Welcome
- Check of pre-requisites
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## 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	PostgreSQL ▼
Database host	192.168.100.25
Database port	5432 0 - use default port
Database name	zabbix
Database schema	
User	zabbix
Password	*****

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- Welcome
- Check of pre-requisites
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## 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	<input type="text" value="192.168.100.25"/>
Port	<input type="text" value="10051"/>
Name	<input type="text" value="zabbix"/>

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- Welcome
- Check of pre-requisites
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- Install

## Pre-installation summary

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

Database type	PostgreSQL
Database server	192.168.100.25
Database port	5432
Database name	zabbix
Database user	zabbix
Database password	*****
Database schema	

Zabbix server	192.168.100.25
Zabbix server port	10051
Zabbix server name	zabbix

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# ZABBIX

## Install

Welcome

Check of pre-requisites

Configure DB connection

Zabbix server details

Pre-installation summary

Install

Details

Cannot create the configuration file.

Unable to create the configuration file.

Alternatively, you can install it manually:

1. [Download the configuration file](#)
2. Save it as "/usr/local/apache2/htdocs/zabbix/conf/zabbix.conf.php"

Back

Finish

Copiado o arquivo zabbix.conf.php

```
[root@zabbix mnt]# cp zabbix.conf.php /usr/local/apache2/htdocs/zabbix/conf/zabbix.conf.php
```

Dê permissão para o arquivo de execução:  
chmod +x zabbix.conf.php



## 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/local/apache2/htdocs/zabbix/conf/zabbix.conf.php" created.

[Back](#)

[Finish](#)

## Login ao Zabbix



Username

zabbix

Login name or password is incorrect.

Password

.....

☒ Remember me for 30 days

[Sign in](#)

[or sign in as guest](#)

## Alter senha no Banco de Dados

```

root@zabbix ~]# su - postgres
Last login: Sun Nov 19 12:49:42 EST 2017 on tty1
[postgres@zabbix ~]$ /var/lib/pgsql96/bin/psql zabbix
psql (9.6.5)
Type "help" for help.

zabbix=# ALTER USER zabbix WITH PASSWORD 'zabbix';_

```

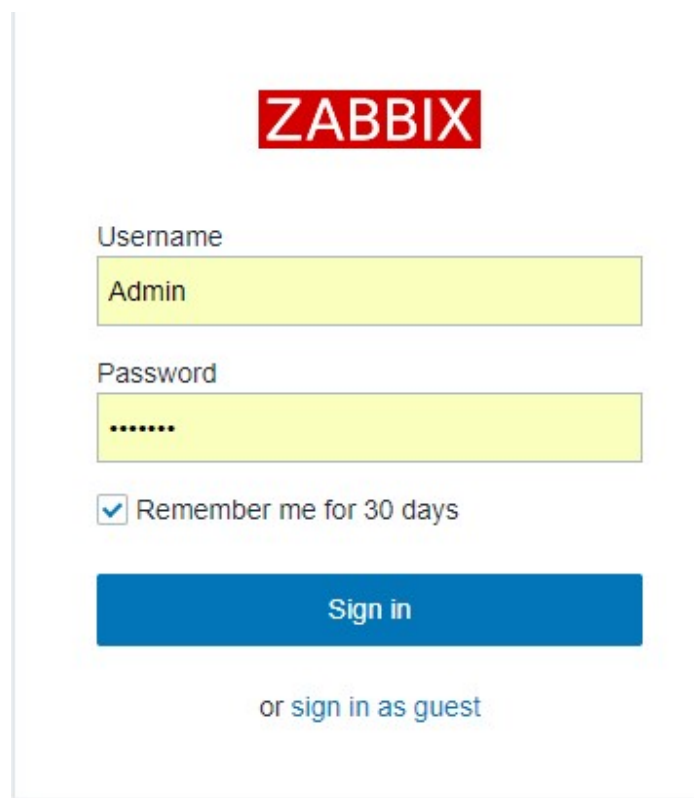
Ver os usuários do Banco de Dados

```

zabbix=# select * from users;
userid | alias | name | surname | passwd | ur
1 | autologin | autologout | lang | refresh | type | theme | attempt_failed |
attempt_ip | attempt_clock | rows_per_page
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 | Admin | Zabbix | Administrator | 5fce1b3e34b520afeffb37ce08c7cd66 |
| 1 | 0 | en_GB | 30s | 3 | default | 0 |
| 0 | 50
2 | guest | | | d41d8cd98f00b204e9800998ecf8427e |
| 0 | 15m | en_GB | 30s | 1 | default | 0 |
| 0 | 50
(2 rows)

zabbix=# _

```

The image shows the Zabbix login web interface. At the top center is the 'ZABBIX' logo in white text on a red rectangular background. Below the logo, the form is titled 'Username' and 'Password'. The 'Username' field contains the text 'Admin'. The 'Password' field contains seven dots, indicating a masked password. Below the password field is a checkbox that is checked, with the text 'Remember me for 30 days' to its right. At the bottom of the form is a large blue button with the text 'Sign in' in white. Below the button, the text 'or sign in as guest' is displayed in a smaller, blue font.

Usuário: Admin  
Senha: zabbix

## Instalação Agente Windows

Faça o Download do Zabbix Agent de acordo com a sua versão.

<https://www.zabbix.com/download>

Descompacte o arquivo zabbix\_agents\_3.4.0.win.zip

copie os arquivos zabbix\_agentd.win.exe e zabbix\_agentd.conf para o diretorio desejado.  
Eu escolhi esta pasta C:\Zabbix

Abra o Prompt de Comando em modo administrador e digite:

```
C:\Zabbix\zabbix_agentd.exe --config C:\Zabbix\zabbix_agentd.win.conf --install
```

Para iniciar o Servico digite:

```
C:\Zabbix\zabbix_agentd.exe --config C:\Zabbix\zabbix_agentd.win.conf --start
```

## Firewall

```
vim /etc/sysconfig/iptables
```

```
-A INPUT -p tcp --dport 10050 -j ACCEPT  
ou
```

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

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