

# INSTALL ICINGA2 2.3.4-1 on RHEL 7 (PGSQL 9.4.1-1) (php 5.6.8-1)

Install RHEL 7

```
# subscription-manager register --auto-attach
- or -
# subscription-manager register --username admin-example --password secret --consumerid=xxxxxxxx-
yyyy-zzzz-www-mmmmmmmmmmmmmmmmm
# subscription-manager repos --list | grep rhscl
# subscription-manager repos --enable rhel-server-rhscl-7-rpms
# subscription-manager repos --enable rhel-server-rhscl-7-eus-rpms
# subscription-manager repos --enable rhel-server-rhscl-7-beta-rpms
```

```
# yum -y install deltarpm firewalld wget sos ntp ntpdate telnet zip unzip vim bind-utils yum-utils
# yum -y groupinstall "Web Server"
```

```
##### configure NTP-daemon
# diff /etc/ntp.conf /etc/ntp.conf.orig
```

```
21,25c21,24
< server ntp.metas.ch iburst
< #server 0.rhel.pool.ntp.org iburst
< #server 1.rhel.pool.ntp.org iburst
< #server 2.rhel.pool.ntp.org iburst
< #server 3.rhel.pool.ntp.org iburst
---
> server 0.rhel.pool.ntp.org iburst
> server 1.rhel.pool.ntp.org iburst
> server 2.rhel.pool.ntp.org iburst
> server 3.rhel.pool.ntp.org iburst
```

```
# systemctl restart ntpd ; systemctl enable ntpd
# yum -y update
# init 6
```

```
## PHP 5.6
# http://www.servermom.org/upgrade-php-53-54-55-centos/1534/
```

```
# wget http://dl.fedoraproject.org/pub/epel/7/x86_64/e/epel-release-7-5.noarch.rpm
# wget http://rpms.famillecollet.com/enterprise/remi-release-7.rpm
# rpm -Uvh *.rpm
# cat /etc/yum.repos.d/remi.repo ## vi /etc/yum.repos.d/remi.repo
```

```
[root@icinga1-rhel7-php54 yum.repos.d]# cat remi.repo
[remi]
name=Les RPM de remi pour Enterprise Linux 7 - $basearch
#baseurl=http://rpms.famillecollet.com/enterprise/7/remi/$basearch/
mirrorlist=http://rpms.famillecollet.com/enterprise/7/remi/mirror
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-remi
```

```
[remi-php56]
name=Les RPM de remi de PHP 5.6 pour Enterprise Linux 7 - $basearch
#baseurl=http://rpms.famillecollet.com/enterprise/7/php56/$basearch/
mirrorlist=http://rpms.famillecollet.com/enterprise/7/php56/mirror
# WARNING: If you enable this repository, you must also enable "remi"
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-remi
```

```
# yum -y install php php-cli php-common php-ldap php-odbc php-pdo php-pear php-pgsql php-process
php-recode php-soap php-xml php-xmlrpc php-pecl-memcache php-intl
```

```
# firewall-cmd --list-all-zones ; firewall-cmd --get-active-zones
# firewall-cmd --permanent --add-service=http
# firewall-cmd --permanent --add-service=https
# firewall-cmd --permanent --add-service=ssh
# systemctl restart firewalld ; systemctl enable firewalld
# systemctl restart httpd ; systemctl enable httpd
```

```

##### INSTALL PGSQl 9.4
# rpm -Uvh http://yum.postgresql.org/9.4/redhat/rhel-7Server-x86_64/pgdg-redhat94-9.4-1.noarch.rpm

# yum -y install postgresql94-server postgresql94-contrib postgresql94-devel postgresql94-docs

# /usr/pgsq1-9.4/bin/postgresql94-setup initdb
Initializing database ... OK

# systemctl restart postgresql-9.4 ; systemctl enable postgresql-9.4
ln -s '/usr/lib/systemd/system/postgresql-9.4.service' '/etc/systemd/system/multi-
user.target.wants/postgresql-9.4.service'
# cat /etc/profile.d/postgres94.sh # vi /etc/profile.d/postgres94.sh
PATH=/usr/pgsq1-9.4/bin:$PATH
# logout # plus login

## INSTALL ICINGA PACKAGES FROM REPO

# rpm --import http://packages.icinga.org/icinga.key
# wget http://packages.icinga.org/epel/ICINGA-release.repo -O /etc/yum/repos.d/ICINGA-release.repo
# yum makecache

# yum -y install libdbi libdbi-drivers libdbi-dbd-pgsql icinga2 icinga2-doc icinga2-ido-pgsql
icingaweb2 icingacli

# yum -y install nagios-plugins nagios-plugins-all
# systemctl enable icinga2 ; systemctl start icinga2

# su - postgres
$ psql templatel
psql (9.4.1)
Type "help" for help.

templatel=# create database icinga;
CREATE DATABASE
templatel=# create database icingaweb;
CREATE DATABASE
templatel=# create role icinga;
CREATE ROLE
templatel=# create role icingaweb;
CREATE ROLE
templatel=# alter role icinga login;
ALTER ROLE
templatel=# ALTER ROLE icinga WITH PASSWORD 'cnd123';
ALTER ROLE
templatel=# grant all on database icinga to icinga;
GRANT
templatel=# alter role icingaweb login;
ALTER ROLE
templatel=# ALTER ROLE icingaweb WITH PASSWORD 'cnd123';
ALTER ROLE
templatel=# grant all on database icingaweb to icingaweb;
GRANT
templatel=# \q
$ logout

##### IT WORKS ONLY WHEN EVERYTHING IS TRUSTED !!!!

# vi /var/lib/pgsq1/9.4/data/pg_hba.conf ## please add following lines (am Schluss vor den letzten
Zeilen)
# TYPE DATABASE USER CIDR-ADDRESS METHOD

# "local" is for Unix domain socket connections only
local all all peer
# IPv4 local connections:
host all all 127.0.0.1/32 ident
# IPv6 local connections:
host all all ::1/128 ident

#icinga
local icinga icinga password
host icinga icinga 127.0.0.1/32 password
host icinga icinga ::1/128 password

```

```

#icingaweb
local    icingaweb      icingaweb      password
host    icingaweb      icingaweb      127.0.0.1/32   password
host    icingaweb      icingaweb      ::1/128        password

# pwd
/var/lib/pgsql/9.4/data
# diff postgresql.conf*
59c59
< listen_addresses = 'localhost'          # what IP address(es) to listen on;
---
> #listen_addresses = 'localhost'          # what IP address(es) to listen on;
63c63
< port = 5432                               # (change requires restart)
---
> #port = 5432                               # (change requires restart)

# systemctl restart postgresql-9.4

# psql -U icinga -d icinga < /usr/share/icinga2-ido-pgsql/schema/pgsql.sql
# psql -U icingaweb -d icingaweb < /usr/share/doc/icingaweb2/schema/pgsql.schema.sql

# icinga2 feature enable ido-pgsql
warning/cli: Feature 'ido-pgsql' already enabled.
# icinga2 feature enable command
Enabling feature command. Make sure to restart Icinga 2 for these changes to take effect.
# systemctl restart icinga2
# usermod -a -G icingacmd apache
# id apache
uid=48(apache) gid=48(apache) Gruppen=48(apache),995(icingacmd)

# add default-timezone to /etc/php.ini
# vi /etc/php.ini
change
;date.timezone =
to
date.timezone = "Europe/Zurich"

# systemctl restart httpd

# CONFIGURE SELINUX
yum install -y policycoreutils-python
semanage fcontext -a -t httpd_sys_content_t '/usr/share/icingaweb2/app(/.*)?'
semanage fcontext -a -t httpd_sys_content_t '/usr/share/icingaweb2/lib(/.*)?'
semanage fcontext -a -t httpd_sys_content_t '/usr/share/icingaweb2/pub(/.*)?'
semanage fcontext -a -t httpd_sys_rw_content_t '/usr/share/icingaweb2/app/cache(/.*)?'
semanage fcontext -a -t httpd_sys_rw_content_t '/usr/share/icingaweb2/log(/.*)?'
semanage fcontext -a -t httpd_sys_rw_content_t '/etc/icingaweb2(/.*)?'
semanage fcontext -a -t httpd_sys_rw_content_t '/etc/icingaweb2/modules(/.*)?'
semanage fcontext -a -t httpd_sys_rw_content_t '/etc/icingaweb2/modules/setup(/.*)?'
restorecon -R /etc/icingaweb2/
restorecon -R /usr/share/icingaweb2/
setsebool -P httpd_can_network_connect_db on

# icingacli setup token create
The newly generated setup token is: 7896eb2a0d1002f9
# icingacli setup token show
The current setup token is: 7896eb2a0d1002f9

# visit : http://<ip>/icingaweb2/setup

authentication type : database

# yum install icinga2-classicui-config
#

```

```
#### test access:
# psql -h localhost -U postgres -d postgres
psql (9.2.10)
Geben Sie »help« für Hilfe ein.

postgres=# \q

# yum -y update

## ICINGAWEB2 CLASSIC UI CONFIG
# yum -y install icinga2-classui-config

## PLUGINS
https://docs-icinga.beutner.name/13-addons-plugins/#addons-plugins

# yum localinstall ftp://ftp.muug.mb.ca/mirror/centos/7.1.1503/os/x86_64/Packages/rrdtool-perl-
1.4.8-8.el7.x86_64.rpm
# yum -y install pnp4nagios

# icinga2 feature enable perfddata
Enabling feature perfddata. Make sure to restart Icinga 2 for these changes to take effect.
# systemctl restart icinga2
# cd /etc/pnp4nagios
# diff npcd.cfg*
79c79
< perfddata_spool_dir = /var/spool/icinga2/perfddata
---
> perfddata_spool_dir = /var/spool/pnp4nagios
# systemctl restart npcd

# https://exchange.icinga.org/icinga/PNP4Nagios
# cd /usr/share/icingaweb2/modules/
# unzip icingaweb2-module-pnp4nagios.zip
# ls /usr/share/icingaweb2/modules/
# systemctl restart icinga2

-> System -> Module -> pnp4nagios -> enable
```