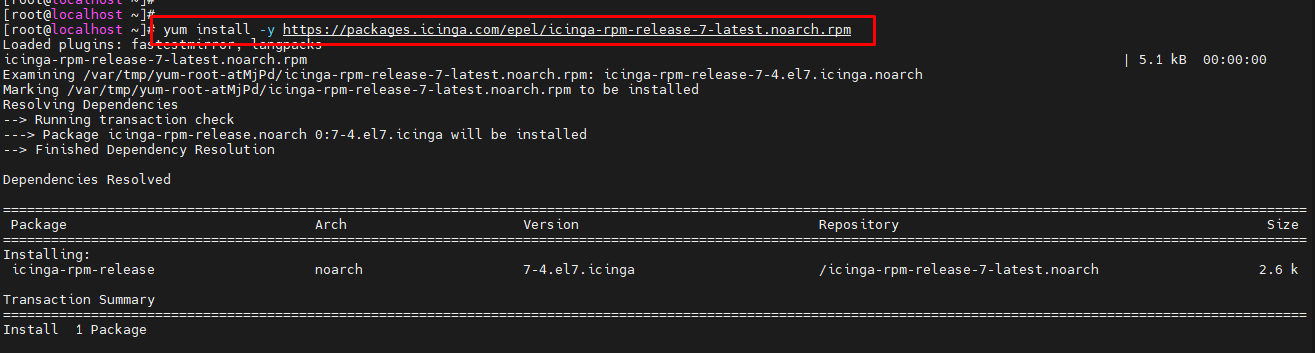
**Icinga 2, Icinga Web 2 and Director Kickstart on CentOS 7**

User admin Pass : admin

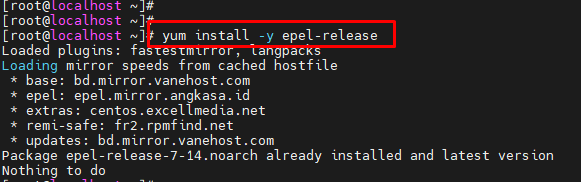
[root@localhost ~]# yum update -y && yum upgrade –y



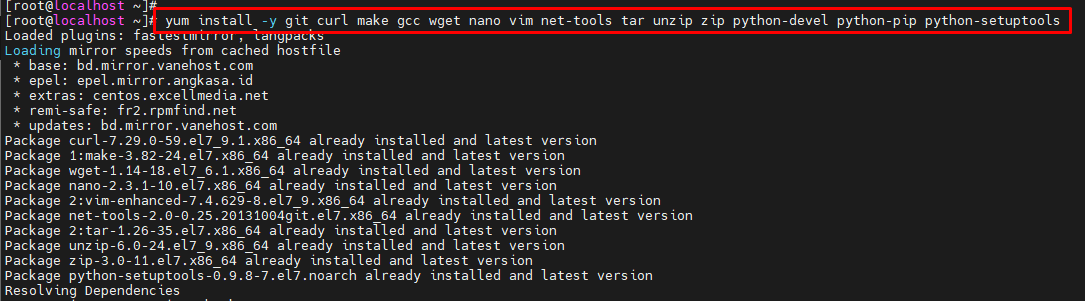
[root@localhost ~]# yum install -y [https://packages.icinga.com/epel/icinga-rpm-release-7- latest.noarch.rpm](https://packages.icinga.com/epel/icinga-rpm-release-7-%20%20%20%20latest.noarch.rpm)



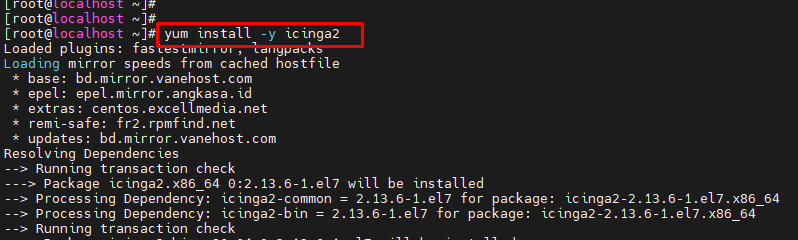
[root@localhost ~]# yum install -y epel-release



[root@localhost ~]# yum install -y git curl make gcc wget nano vim net-tools tar unzip zip python-devel python-pip python-setuptools



[root@localhost ~]# yum install -y icinga2

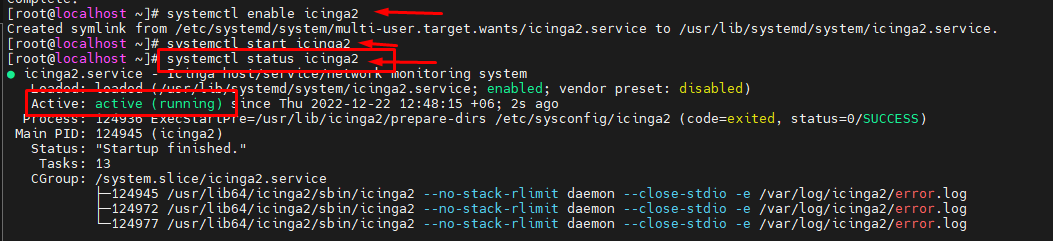


[root@localhost ~]# systemctl enable icinga2

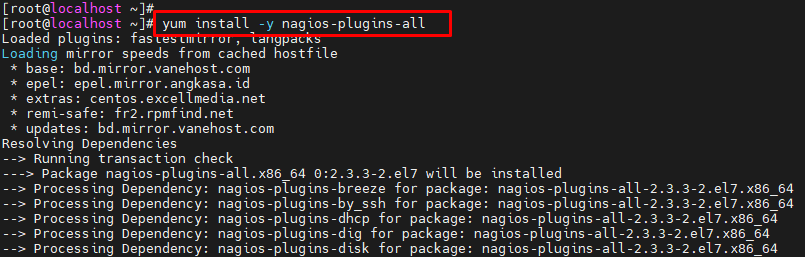
Created symlink from /etc/systemd/system/multi-user.target.wants/icinga2.service to /usr/lib/systemd/system/icinga2.service.

[root@localhost ~]# systemctl start icinga2

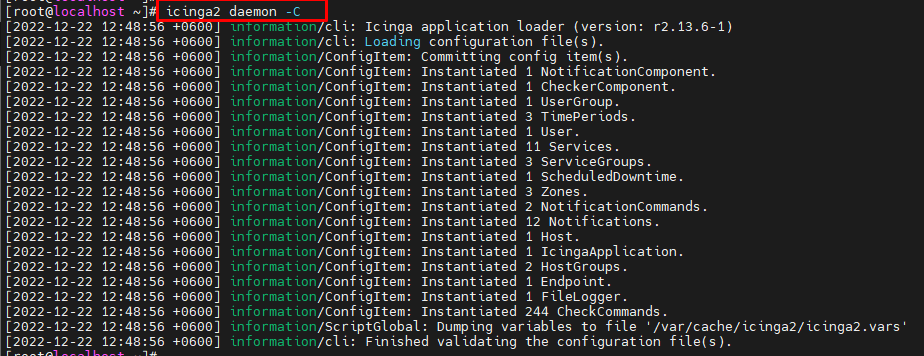
[root@localhost ~]# systemctl status icinga2



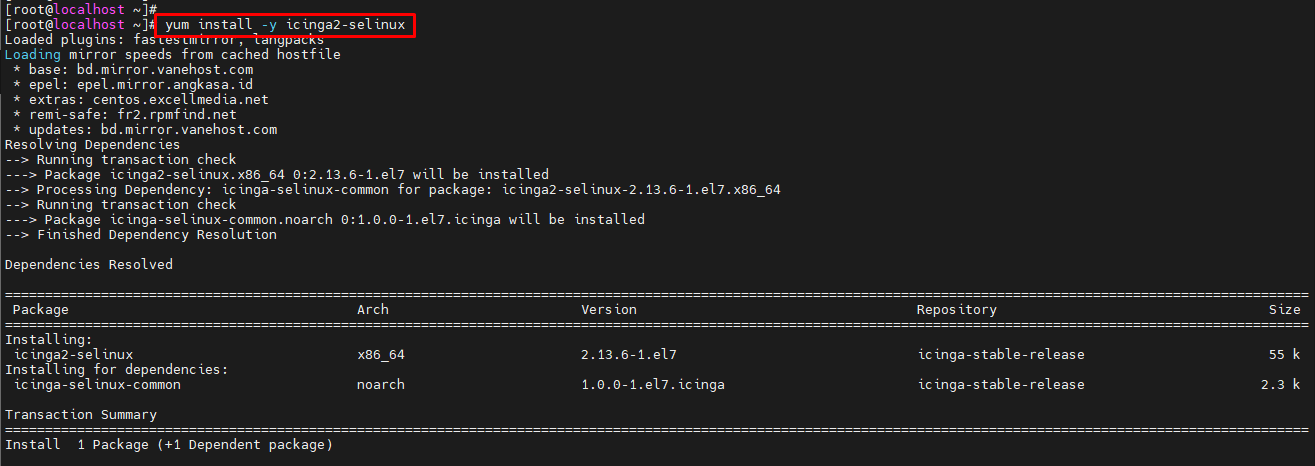
[root@localhost ~]# yum install -y nagios-plugins-all



[root@localhost ~]# icinga2 daemon –C



[root@localhost ~]# yum install -y icinga2-selinux

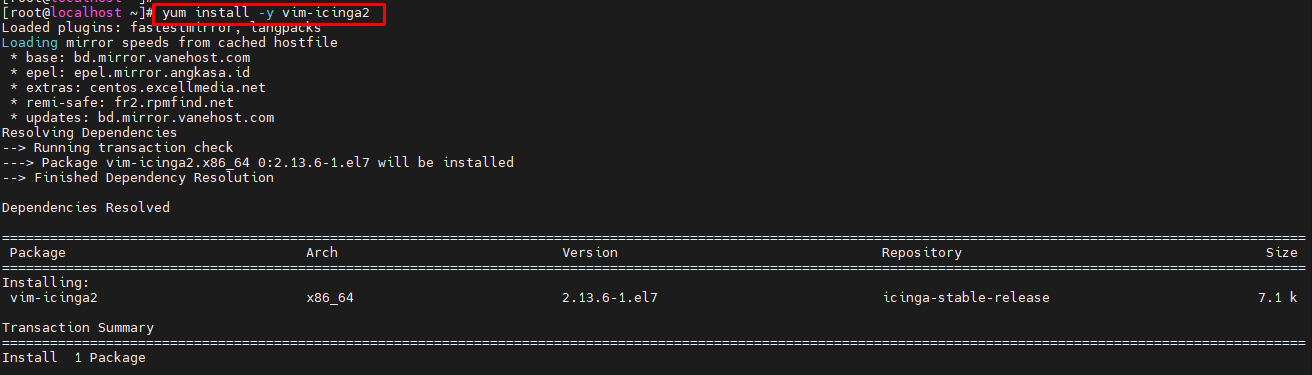


[root@localhost ~]# firewall-cmd --add-service=http && firewall-cmd --permanent --add-service=http

Success

Success

[root@localhost ~]# yum install -y vim-icinga2



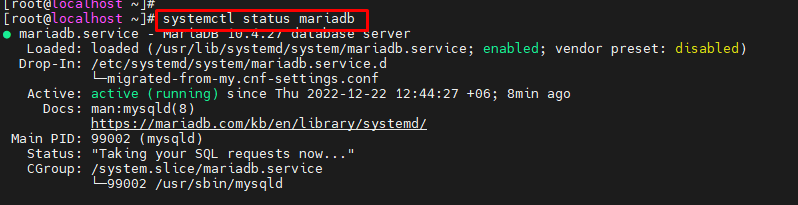
[root@localhost ~]# vim /etc/icinga2/conf.d/templates.conf

[root@localhost ~]# yum install -y mariadb-server mariadb

[root@localhost ~]# systemctl enable mariadb

[root@localhost ~]# systemctl start mariadb

[root@localhost ~]# systemctl status mariadb

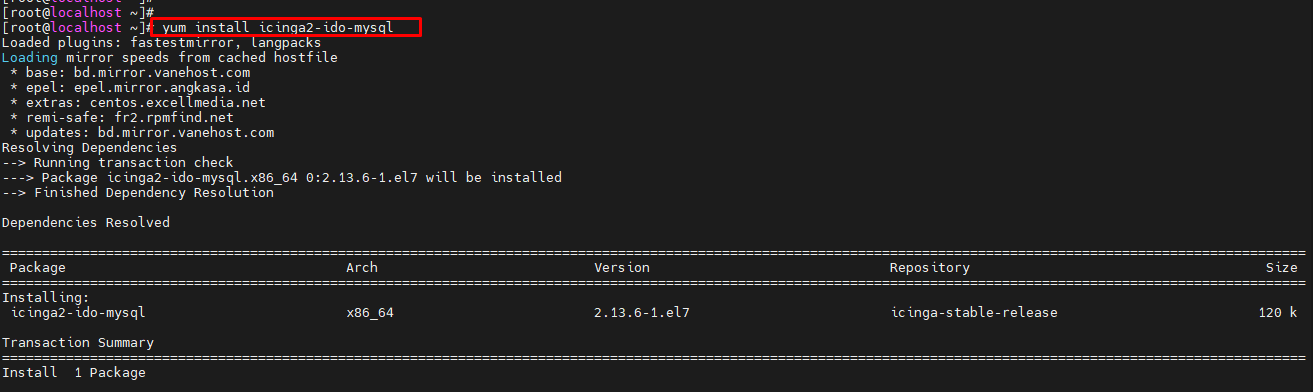


[root@localhost ~]# mysql\_secure\_installation

[root@localhost ~]# mysql -u root -p

Enter password:

[root@localhost ~]# yum install icinga2-ido-mysql



[root@localhost ~]# mysql -u root -p

Enter password:

MariaDB [(none)]> CREATE DATABASE icinga;

Query OK, 1 row affected (0.015 sec)

MariaDB [(none)]> GRANT SELECT, INSERT, UPDATE, DELETE, DROP, CREATE VIEW, INDEX, EXECUTE ON icinga.\* TO 'icinga'@'localhost' IDENTIFIED BY 'icinga';

Query OK, 0 rows affected (0.016 sec)

MariaDB [(none)]> CREATE DATABASE icingaweb;

Query OK, 1 row affected (0.001 sec)

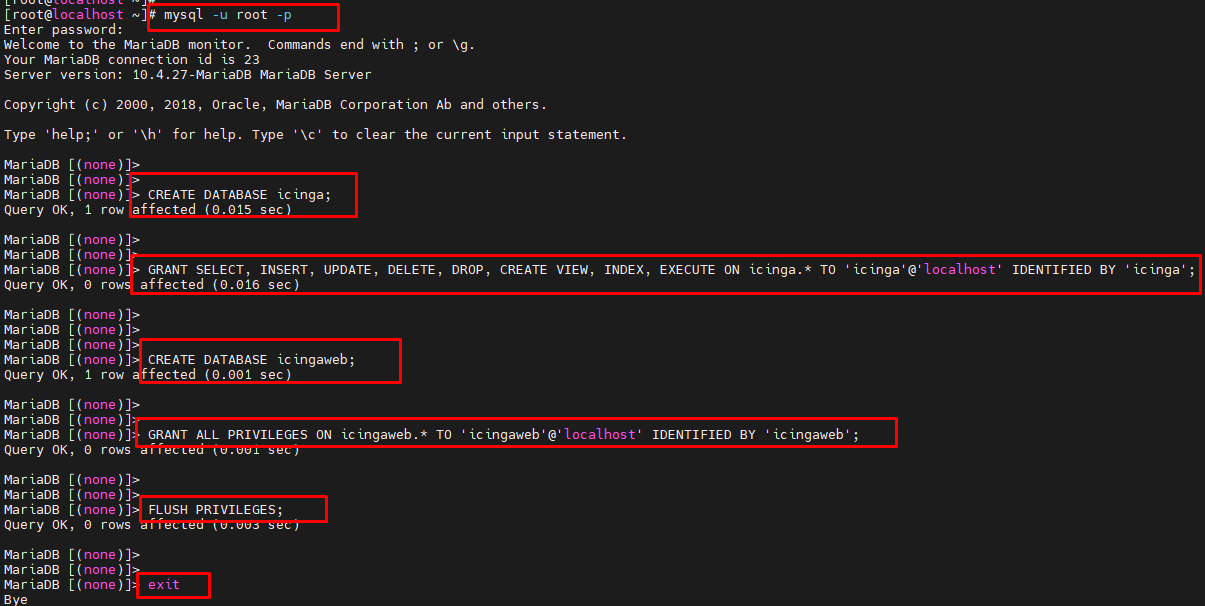
MariaDB [(none)]> GRANT ALL PRIVILEGES ON icingaweb.\* TO 'icingaweb'@'localhost' IDENTIFIED BY 'icingaweb';

Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;

Query OK, 0 rows affected (0.003 sec)

MariaDB [(none)]> exit



[root@localhost ~]# mysql -u root -p icinga < /usr/share/icinga2-ido-mysql/schema/mysql.sql

Enter password:

[root@localhost ~]# icinga2 feature enable ido-mysql

Enabling feature ido-mysql. Make sure to restart Icinga 2 for these changes to take effect.

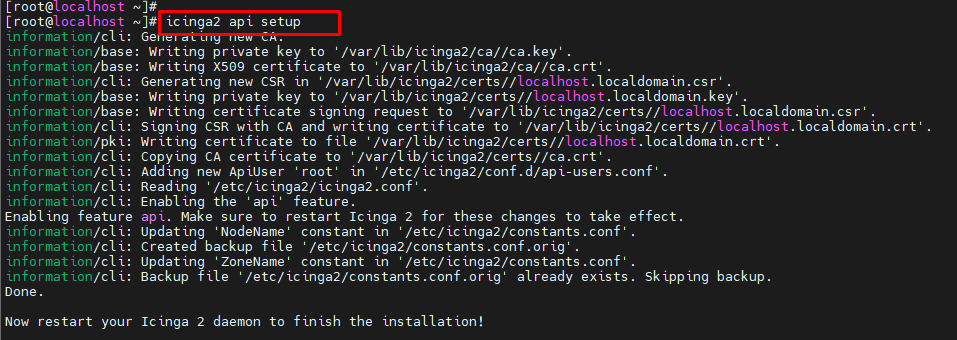
[root@localhost ~]# systemctl restart icinga2

[root@localhost ~]# yum install -y httpd

[root@localhost ~]# systemctl enable httpd

[root@localhost ~]# systemctl start httpd

[root@localhost ~]# icinga2 api setup



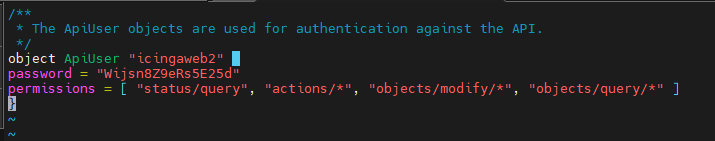
[root@localhost ~]# vim /etc/icinga2/conf.d/api-users.conf

object ApiUser "icingaweb2" **{**

password = "Wijsn8Z9eRs5E25d"

permissions = **[** "status/query", "actions/\*", "objects/modify/\*", "objects/query/\*" **]**

**}**



[root@localhost ~]# vim /etc/icinga2/features-enabled/ido-mysql.conf

/\*\*

\* The IdoMysqlConnection type implements MySQL support

\* **for** DB IDO.

\*/

object IdoMysqlConnection "ido-mysql" {

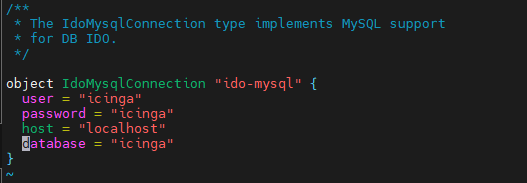
user = "icinga"

password = "icinga"

host = "localhost"

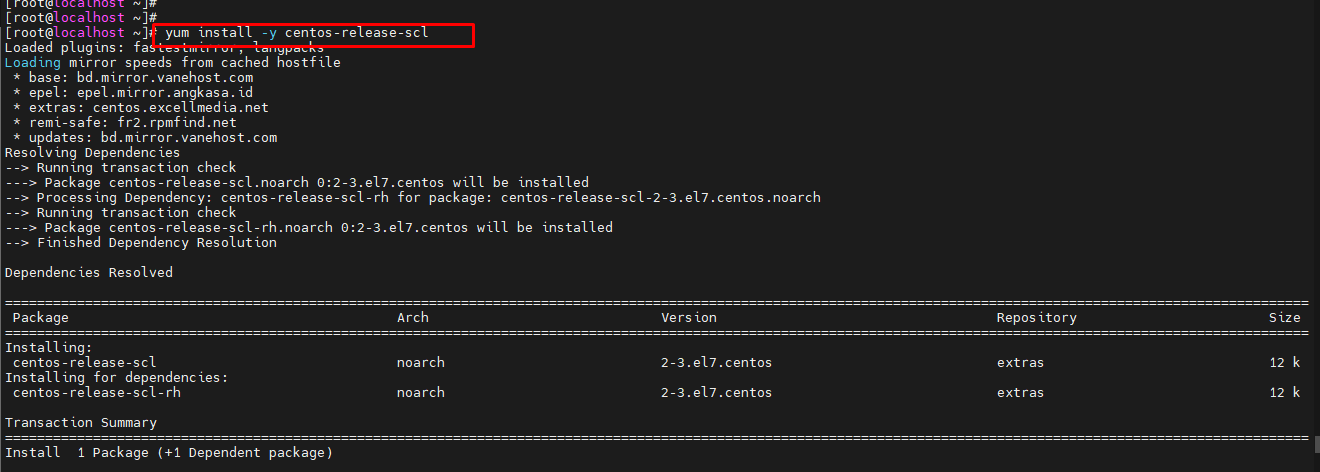
database = "icinga"

}

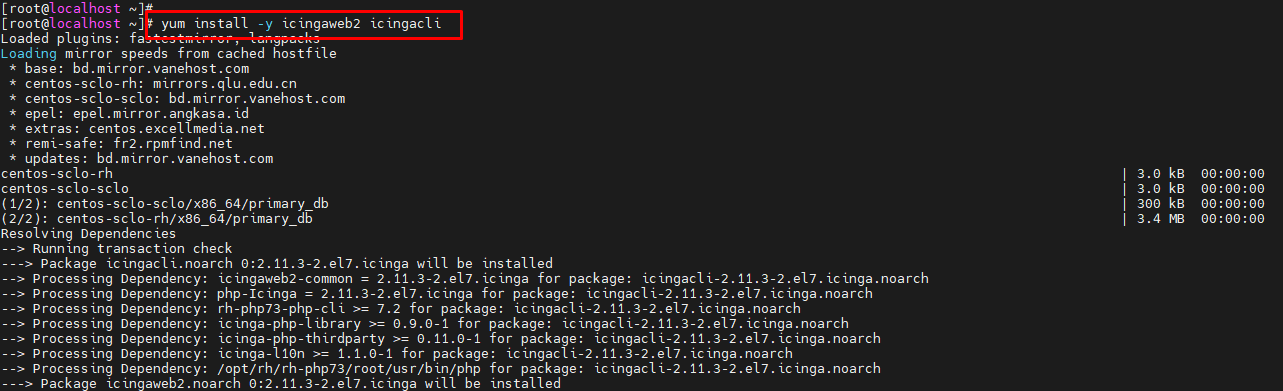


[root@localhost ~]# systemctl restart icinga2

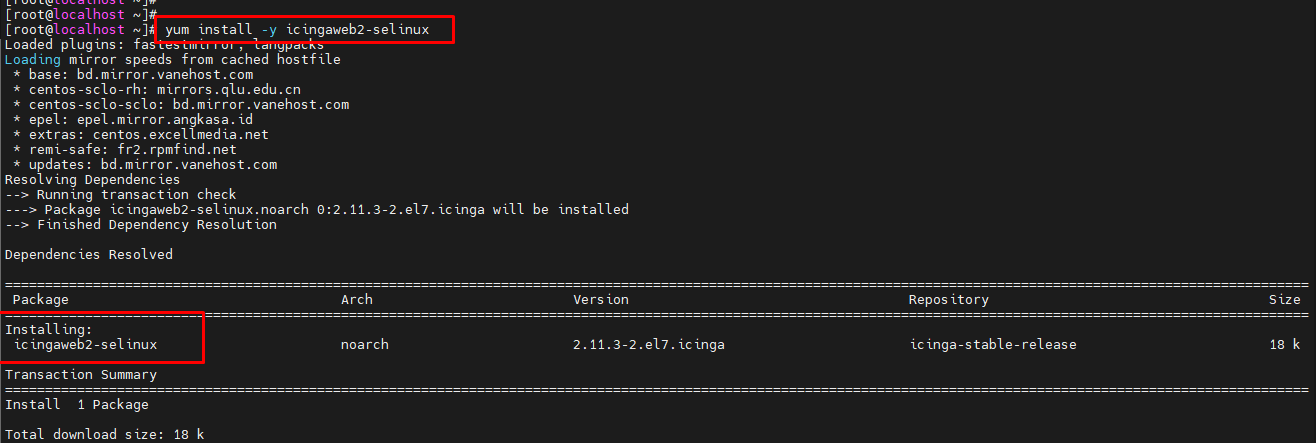
[root@localhost ~]# yum install -y centos-release-scl



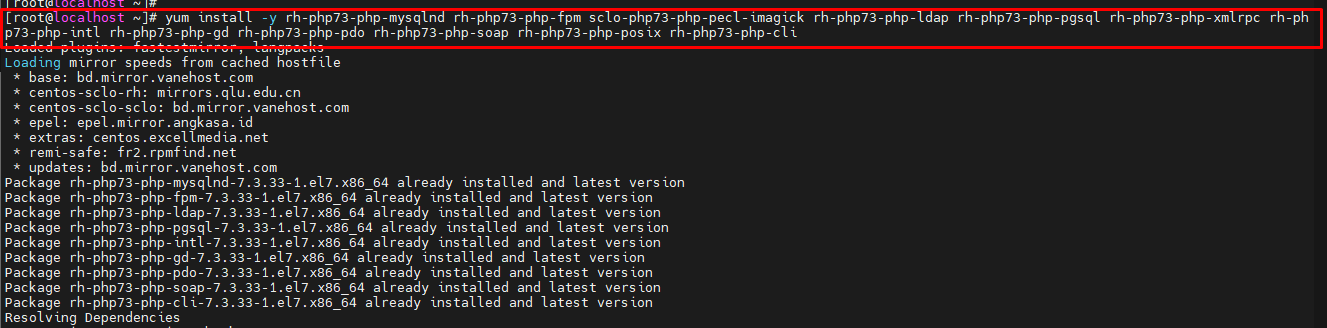
[root@localhost ~]# yum install -y icingaweb2 icingacli



[root@localhost ~]# yum install -y icingaweb2-selinux



[root@localhost ~]# yum install -y rh-php73-php-mysqlnd rh-php73-php-fpm sclo-php73-php-pecl-imagick rh-php73-php-ldap rh-php73-php-pgsql rh-php73-php-xmlrpc rh-php73-php-intl rh-php73-php-gd rh-php73-php-pdo rh-php73-php-soap rh-php73-php-posix rh-php73-php-cli



[root@localhost ~]# systemctl start rh-php73-php-fpm.service

[root@localhost ~]# systemctl enable rh-php73-php-fpm.service

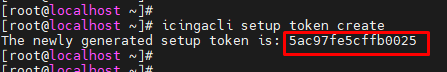
Created symlink from /etc/systemd/system/multi-user.target.wants/rh-php73-php-fpm.service to /usr/lib/systemd/system/rh-php73-php-fpm.service.

[root@localhost ~]# systemctl restart httpd

[root@localhost ~]# systemctl restart rh-php73-php-fpm.service

[root@localhost ~]# icingacli setup token create

The newly generated setup token is: 5ac97fe5cffb0025



**Install Source link:**

https://icinga.com/blog/2020/07/10/icinga-2-icinga-web-2-and-director-kickstart-on-centos-7/

**Icinga 2, Icinga Web 2 and Director Kickstart on CentOS 7**



**INTRODUCTION**

The easiest way to get started with Icinga is a single-node installation. If you are new to the Icinga world, here you have a kickstart for installing Icinga 2, Icinga Web 2 and Icinga Director on CentOS 7. With these steps you will have a ready Icinga environment for monitoring your infrastructure.

**Step 1: Now update / upgrade your CentOS Linux**

yum update -y && yum upgrade -y

**Step 2: Install Icinga repository**

yum install -y https://packages.icinga.com/epel/icinga-rpm-release-7-latest.noarch.rpm

**Step 3: Install EPEL repository**

yum install -y epel-release

**Step 4: Let’s install some tools we could need later in our system**

yum install -y git curl make gcc wget nano vim net-tools tar unzip zip python-devel python-pip python-setuptools

**Step 5: Install Icinga 2, enable and start the Icinga 2 service**

yum install -y icinga2

systemctl enable icinga2

systemctl start icinga2

systemctl status icinga2

**Step 6: Install plugins-all**

yum install -y nagios-plugins-all

**Step 7: When you make a change into Icinga files and you want to confirm all is correct before restarting,  you can run the following command**

icinga2 daemon -C

**Step 8: If you are going to use SELINUX with Icinga 2, you need to install the following packages, and set rules for port 80 and 443**

yum install -y icinga2-selinux

**Now proceed to apply firewall rules for port 80, as a best practice you should be using https and open 443 as well.**

firewall-cmd --add-service=http && firewall-cmd --permanent --add-service=http

**Step 9: Let’s configure vim to use Icinga syntax colors**

yum install -y vim-icinga2

Now, create the following file vim ~/.vimrc and add the following: syntax on  
Now let’s test that syntax colors are working, open the file templates.conf with vim editor:

vim /etc/icinga2/conf.d/templates.conf

**Step 10: Installing and configuring MySQL as database for our Icinga:**

yum install -y mariadb-server mariadb

systemctl enable mariadb

systemctl start mariadb

mysql\_secure\_installation

[ below details of this step...]

Enter current password **for** root (enter **for** none): [ Hit enter ]

Set root password? [Y/n] Y

New password: [ Enter new passowrd ]

Re-enter new password: [ Enter again new password ]

Remove anonymous users? [Y/n] Y

Disallow root login remotely? [Y/n] Y

Remove test database and access to it? [Y/n] Y

Reload privilege tables now? [Y/n] Y

Now let’s install IDO for MySQL

yum install icinga2-ido-mysql

Login to your MySQL

mysql -u root –p

CREATE DATABASE icinga;

Now, configure the permissions for the database created in the step before:

GRANT SELECT, INSERT, UPDATE, DELETE, DROP, CREATE VIEW, INDEX, EXECUTE ON icinga.\* TO 'icinga'@'localhost' IDENTIFIED BY 'icinga';

Create the database for Icinga Web 2:

CREATE DATABASE icingaweb;

Now, configure permissions:

GRANT ALL PRIVILEGES ON icingaweb.\* TO 'icingaweb'@'localhost' IDENTIFIED BY 'icingaweb';

Deploy privileges:

FLUSH PRIVILEGES;

Now, quit from the database:

QUIT

**Step 11: Now we need to import the Icinga 2 schema for our MySQL.**

mysql -u root -p icinga < /usr/share/icinga2-ido-mysql/schema/mysql.sql

**Step 12: Enable the ido-mysql module in Icinga**

icinga2 feature enable ido-mysql

Now, restart icinga2 service

systemctl restart icinga2

**Step 13: Install Web Server**

yum install -y httpd

systemctl enable httpd

systemctl start httpd

**Step 14: Configure Icinga 2 REST ApiUser**

icinga2 api setup

Now, edit the file

vim /etc/icinga2/conf.d/api-users.conf

 and add the following lines:

object ApiUser "icingaweb2" **{**

password = "Wijsn8Z9eRs5E25d"

permissions = **[** "status/query", "actions/\*", "objects/modify/\*", "objects/query/\*" **]**

**}**

Don’t forget to edit

vim /etc/icinga2/features-enabled/ido-mysql.conf

according to the configuration needed. Check an example below:

/\*\*

\* The IdoMysqlConnection type implements MySQL support

\* **for** DB IDO.

\*/

object IdoMysqlConnection "ido-mysql" {

user = "icinga"

password = "icinga"

host = "localhost"

database = "icinga"

}

Now proceed to restart icinga2 service

systemctl restart icinga2

**Step 15: Let’s install the SCL repository, we’ll need it for Icinga Web 2**

yum install -y centos-release-scl

**Step 16: Proceed to install Icinga Web and Icinga CLI**

yum install -y icingaweb2 icingacli

**Step 17: Install SELINUX for Icinga Web 2 in case you could need it**

yum install -y icingaweb2-selinux

**Step 18: Install PHP FPM and other PHP modules we could need**

yum install -y rh-php73-php-mysqlnd rh-php73-php-fpm sclo-php73-php-pecl-imagick rh-php73-php-ldap rh-php73-php-pgsql rh-php73-php-xmlrpc rh-php73-php-intl rh-php73-php-gd rh-php73-php-pdo rh-php73-php-soap rh-php73-php-posix rh-php73-php-cli

Then start and enable the service:

systemctl start rh-php73-php-fpm.service

systemctl enable rh-php73-php-fpm.service

systemctl restart httpd

systemctl restart rh-php73-php-fpm.service

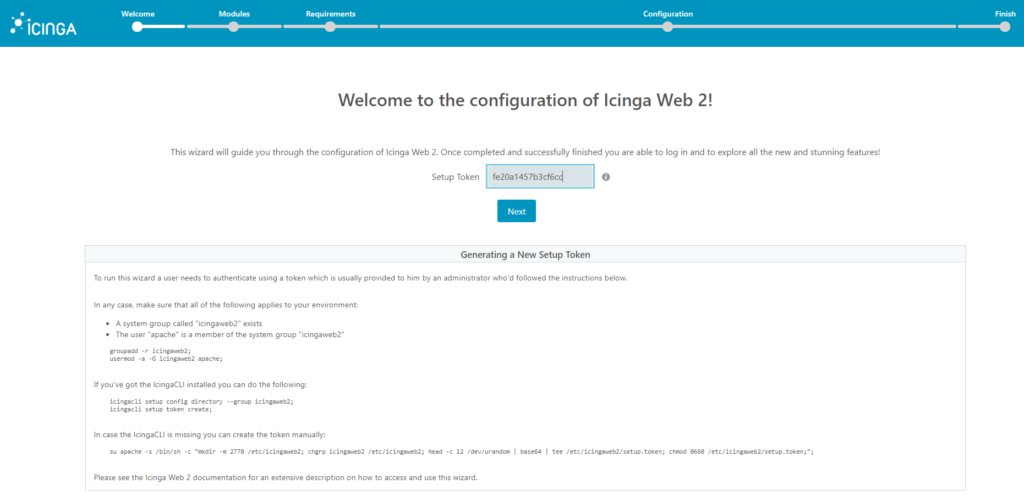
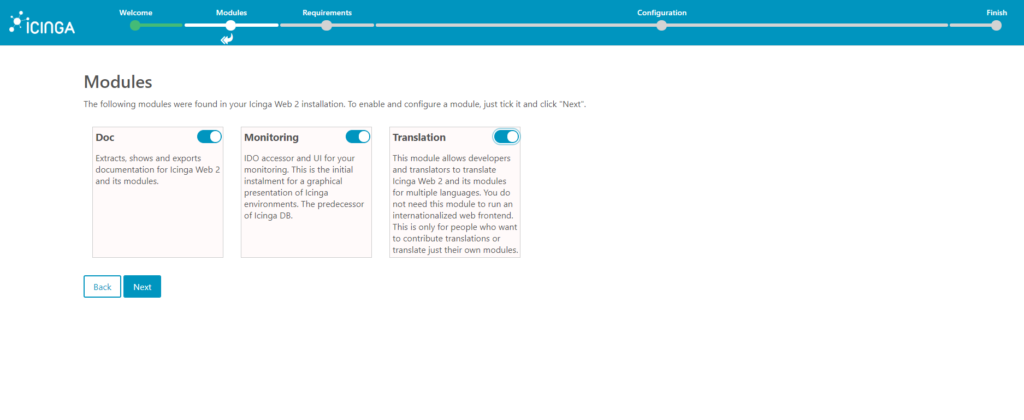
Now, let’s create the token for finishing Icinga Web 2 configuration through web interface:

icingacli setup token create

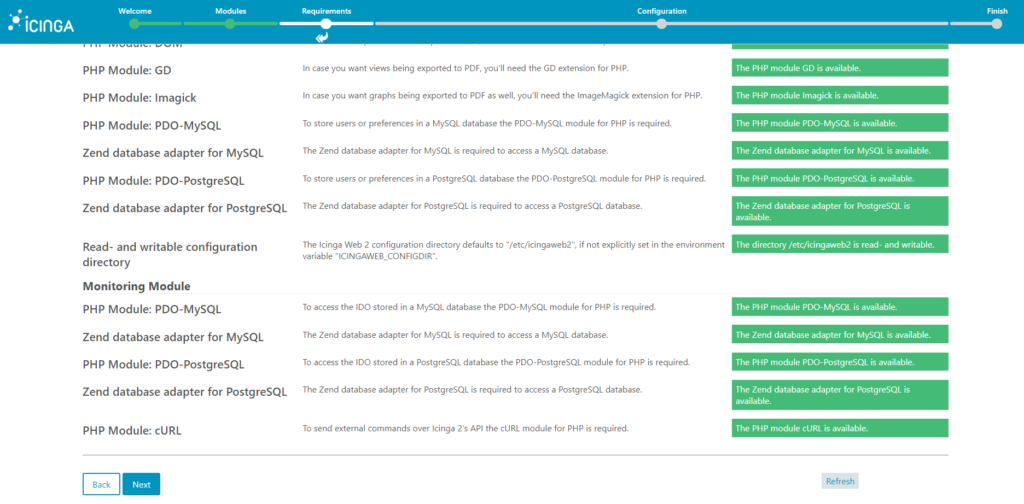
**Step 19: Icinga Web 2 Configuration**

<http://icinga-server/icingaweb2/>

1. It will request the generated token, paste it and click on next

2. Monitoring modules is enable by default, you can enable Doc and Translation optionally and then click next  


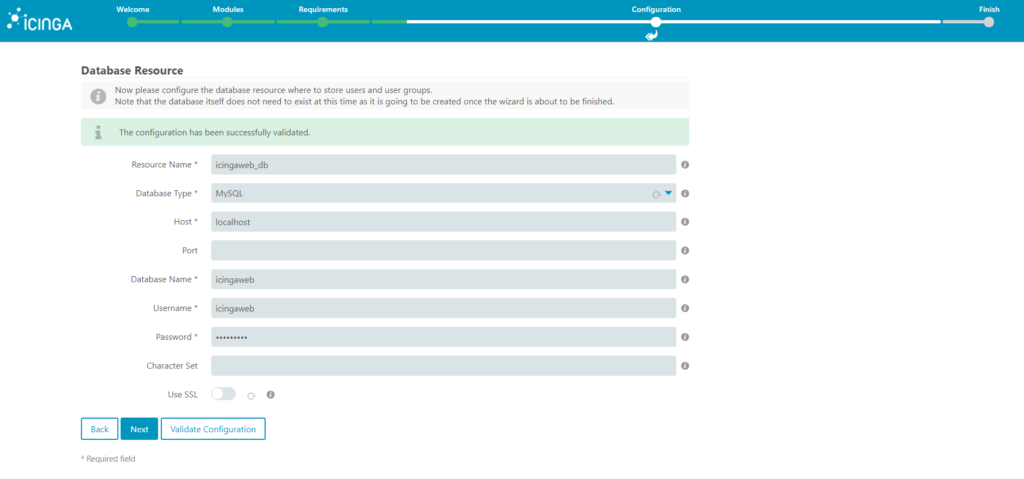
3. Now all PHP Modules should be green, in case you have some in yellow, it is recommended to fix it before moving forward, if all are green, just click next



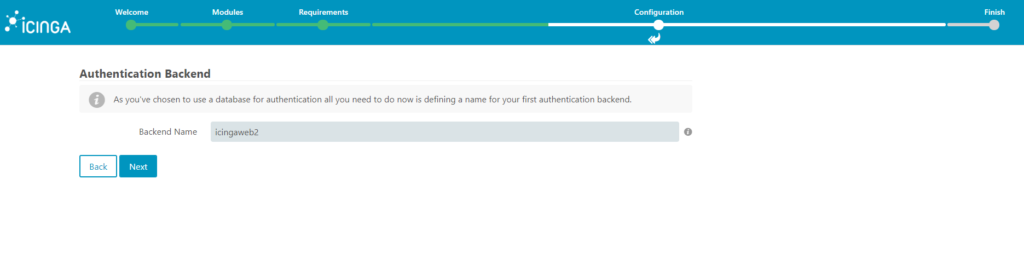
4. By default we are going to use database authentication



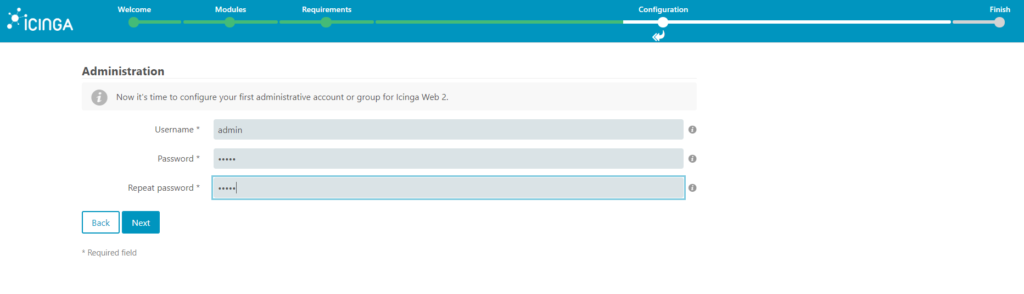
5. Configure the database resource, here we are going to use the credentials we created for icingaweb database. You need to set the parameters localhost, database name, username and password. Before clicking next, you can click on Validate Configuration in order to validate that the credentials are working correctly.



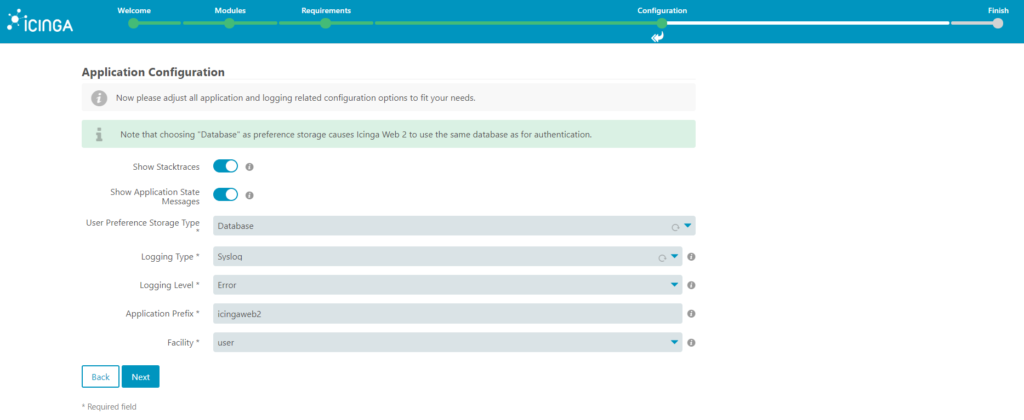
6. Let’s configure the Authentication Backend, this one was defined in the api-users.conf file, just click next.



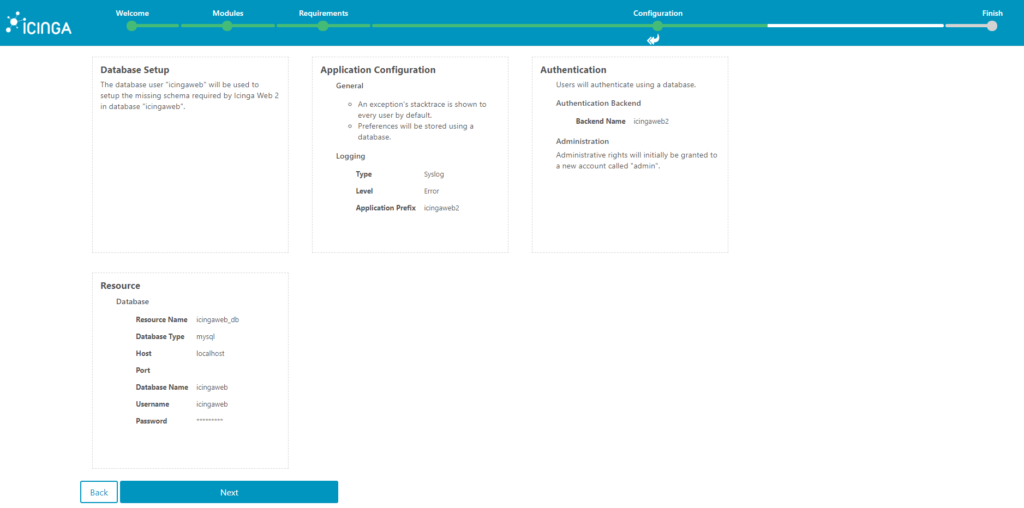
7. In the administration screen you define the username and password for login to the Icinga Web interface.



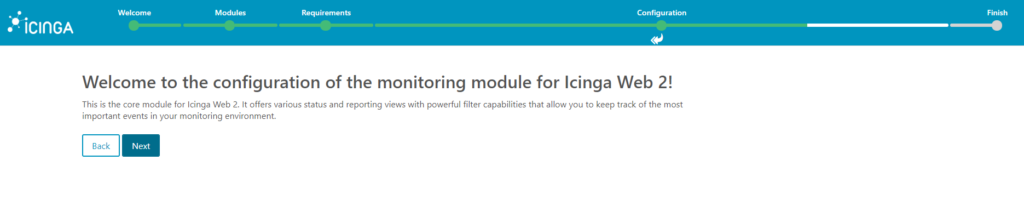
8. In the application configuration screen you just need to click next, you can change adjust it according your needs, but the defaults are fine for now.



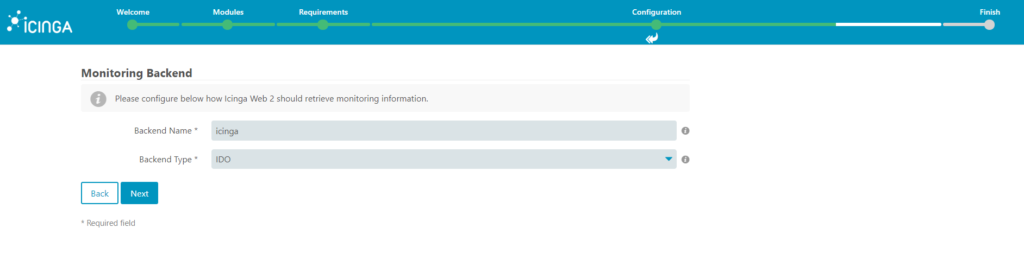
9. Now you have a resume screen, here just need to click next.

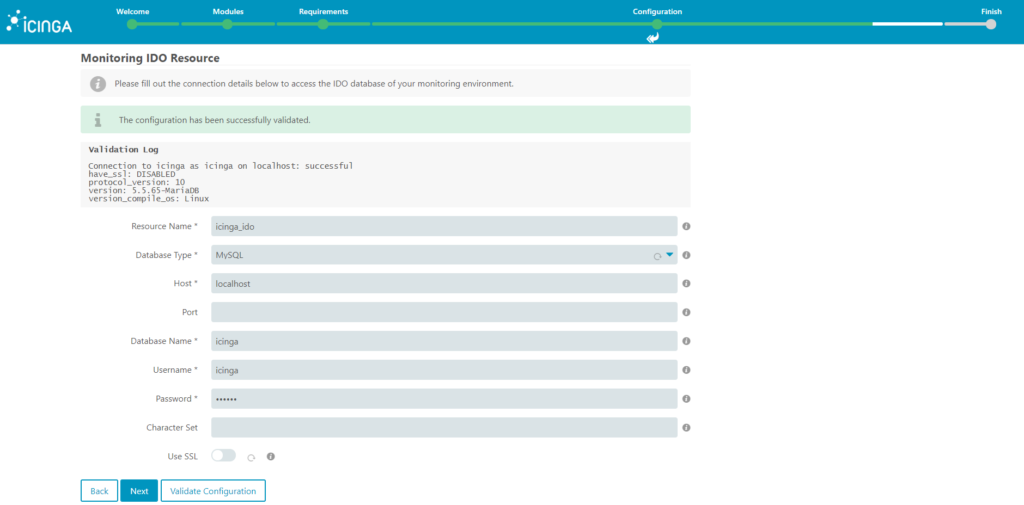


10. Now, you can configure monitoring module for Icinga Web 2, only click next.

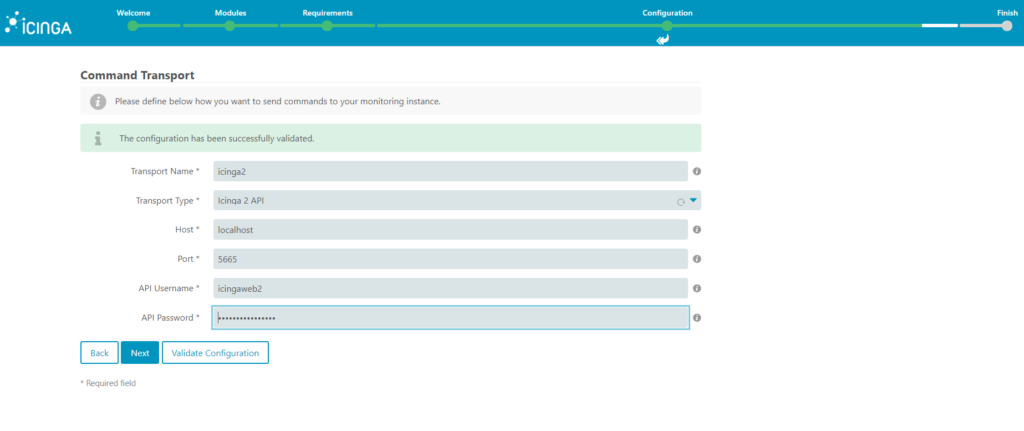


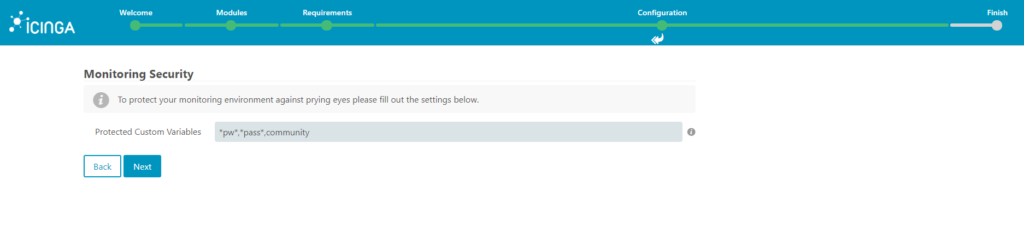
11. Monitoring backend will bring the information by default, here only click next



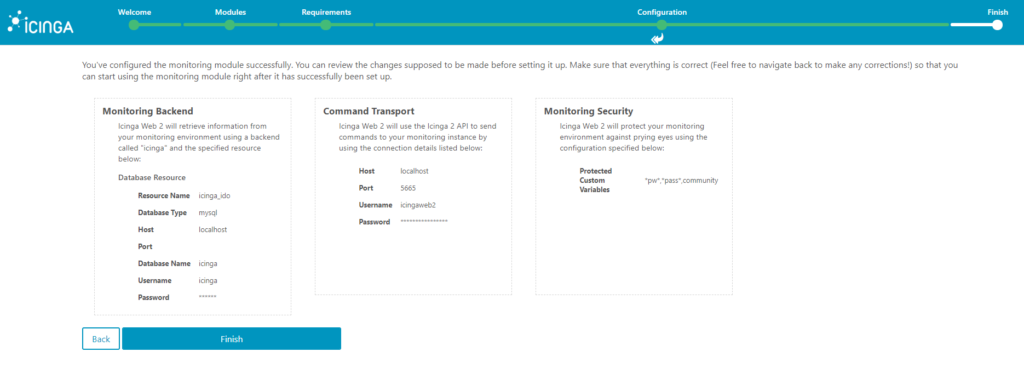
12. Now, let’s configure the monitoring IDO Resource, here we’ll use the credentials we created for the icinga database. Here you need to set the parameters localhost, database name, username and password. Before clicking next, you can click on Validate Configuration in order to validate that the credentials are working correctly.  


13. In steps before you defined an api user in the api-user.conf file, now you need to define host, api username and api password. Before clicking next, you can click on Validate Configuration in order to validate that the credentials are working correctly.

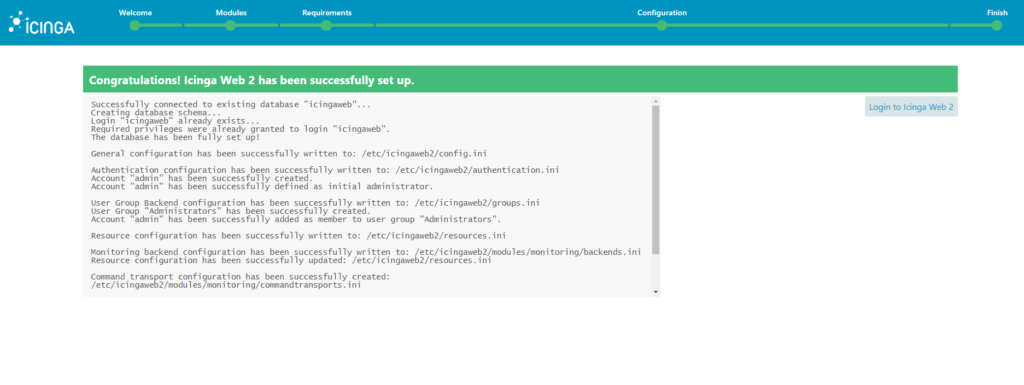


14. In the monitoring security screen you only need to click next.  


15. Now you have a sucess screen for Icinga Web 2, you only need to click Finish.



16. You should have now a congratulations screen with a Login to Icinga Web available, only click on that button for logging in into Icinga Web 2.



17. Now you have your login, remember to use the credentials defined in step 7

**ICINGA DIRECTOR**

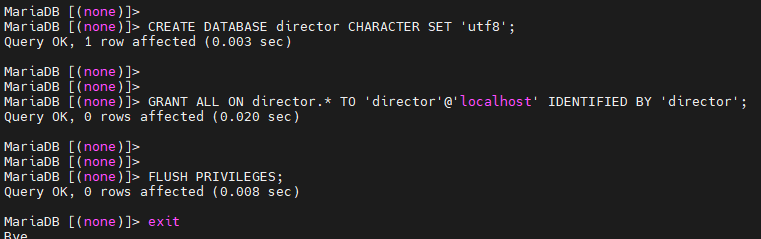
[root@localhost ~]# mysql -u root –p

MariaDB [(none)]> CREATE DATABASE director CHARACTER SET 'utf8';

MariaDB [(none)]> GRANT ALL ON director.\* TO 'director'@'localhost' IDENTIFIED BY 'director';

MariaDB [(none)]> FLUSH PRIVILEGES;

MariaDB [(none)]> exit



[root@localhost ~]# vim director.sh

vim director.sh

------- CONTENT OF THE FILE STARTS HERE -----------------------

#!/bin/bash

ICINGAWEB\_MODULEPATH="/usr/share/icingaweb2/modules"

REPO\_URL="https://github.com/icinga/icingaweb2-module-director"

TARGET\_DIR="${ICINGAWEB\_MODULEPATH}/director"

MODULE\_VERSION="1.7.2"

git clone "${REPO\_URL}" "${TARGET\_DIR}" --branch v${MODULE\_VERSION}

MODULE\_NAME=incubator

MODULE\_VERSION=v0.5.0

REPO="https://github.com/Icinga/icingaweb2-module-${MODULE\_NAME}"

MODULES\_PATH="/usr/share/icingaweb2/modules"

git clone ${REPO} "${MODULES\_PATH}/${MODULE\_NAME}" --branch "${MODULE\_VERSION}"

icingacli module enable "${MODULE\_NAME}"

MODULE\_NAME=ipl

MODULE\_VERSION=v0.5.0

REPO="https://github.com/Icinga/icingaweb2-module-${MODULE\_NAME}"

MODULES\_PATH="/usr/share/icingaweb2/modules"

git clone ${REPO} "${MODULES\_PATH}/${MODULE\_NAME}" --branch "${MODULE\_VERSION}"

icingacli module enable "${MODULE\_NAME}"

MODULE\_NAME=reactbundle

MODULE\_VERSION=v0.7.0

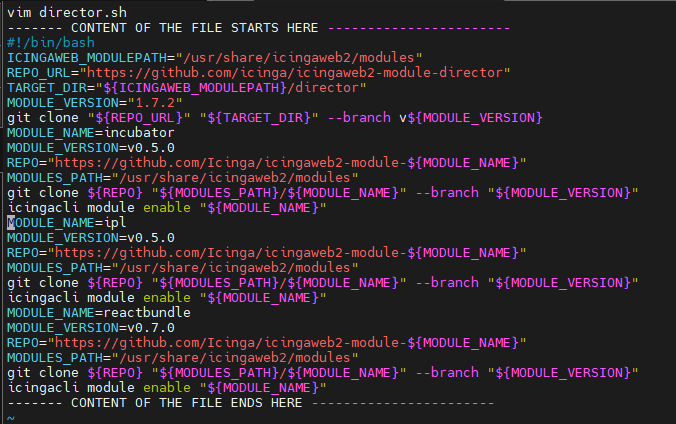
REPO="https://github.com/Icinga/icingaweb2-module-${MODULE\_NAME}"

MODULES\_PATH="/usr/share/icingaweb2/modules"

git clone ${REPO} "${MODULES\_PATH}/${MODULE\_NAME}" --branch "${MODULE\_VERSION}"

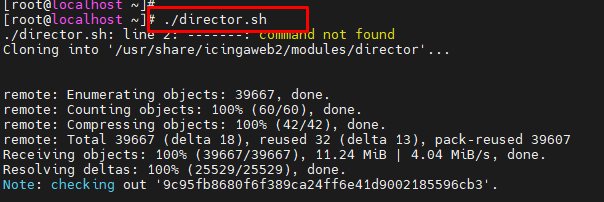
icingacli module enable "${MODULE\_NAME}"

------- CONTENT OF THE FILE ENDS HERE -----------------------



[root@localhost ~]# chmod +x director.sh

[root@localhost ~]# ./director.sh



[root@localhost ~]# mysql -u root -p director < /usr/share/icingaweb2/modules/director/schema/mysql.sql

Enter password:

[root@localhost ~]#

[root@localhost ~]#

[root@localhost ~]# icingacli module enable director