

# Configuring iCinga2 on Single server

This will guide you through installing Icinga setup on Ubuntu 20.04 LTS server;

## Requirement

- Linux Server running Ubuntu 20.04 LTS
- sudo access to the server. All following commands have to be entered as the root user. Best way to do it is, by login in as root with {{{ sudo su }}}

Execute the commands as super user

## Manual Installation

If you have completed the scripted installation, do not proceed. ( This is for references )

### Ubuntu Repositories

You need to add the Icinga repository to your package management configuration. The following commands must be executed with root permissions unless noted otherwise.

```
apt-get update

apt-get -y install apt-transport-https wget gnupg

wget -O - https://packages.icinga.com/icinga.key | apt-key add -

. /etc/os-release; if [ ! -z ${UBUNTU_CODENAME+x} ]; then DIST="${UBUNTU_CODENAME}";
else DIST="$(lsb_release -c | awk '{print $2}'); fi;
```

### Installing Icinga 2

The following commands must be executed with root permissions unless noted otherwise.

```
apt-get install icinga2
```

### Setting up Check Plugins

Without plugins Icinga 2 does not know how to check external services. The Monitoring Plugins Project provides an extensive set of plugins which can be used with Icinga 2 to check whether services are working properly.

```
apt-get install monitoring-plugins
```

## Running Service

Start the service using following command

```
systemctl restart icinga2
```

Enabling the service if a reboot happens

```
systemctl enable icinga2
```

Extra :

If you're stuck with configuration errors, you can manually invoke the configuration validation.

```
icinga2 daemon -C
```

Configuration Syntax Highlighting

*If you are using Vim*

```
apt-get install vim-icinga2 vim-addon-manager
```

```
vim-addon-manager -w install icinga2
```

Ensure that syntax highlighting is enabled e.g. by editing the user's vimrc configuration file:

```
vim ~/.vimrc  
syntax on
```

Test it:

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

Note :

If you are using Nano the syntax files are installed with the icinga2-common package already

## Setting up Icinga Web 2

### Configuring DB IDO MySQL

Installing MySQL database server

```
apt-get install mariadb-server
```

```
mysql_secure_installation
```

(After executing `mysql\_secure\_installation`, change the root password and remove test database.)

### Installing the IDO modules for MySQL

The next step is to install the icinga2-ido-mysql

```
apt-get install icinga2-ido-mysql
```

Select `yes` for the options pop up and enter a password for when it prompt(it is used for icinga2 database)

Note :

(OPTIONAL)The Ubuntu packages provide a database configuration wizard by default. You can skip the automated setup and install/upgrade the database manually if you prefer.

Setting up the MySQL database

```
{{
mysql -u root -p

CREATE DATABASE icinga;

CREATE USER 'icinga'@'localhost' IDENTIFIED BY '###PASSWORD###' ;

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

quit
}}
```

After creating the database you can import the Icinga 2 IDO schema using the following command. Enter the root password into the prompt when asked.

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

### Enabling the IDO MySQL module

The package provides a new configuration file that is installed in `/etc/icinga2/features-available/ido-mysql.conf`. (You can update the database credentials in this file if needed.)

You can enable the ido-mysql feature configuration file using icinga2 feature enable:

```
icinga2 feature enable ido-mysql
```

You will see Module 'ido-mysql' was enabled.

Make sure to restart Icinga 2 for these changes to take effect.

```
systemctl restart icinga2
```

### Setting Up Icinga 2 REST API

Icinga Web 2 and other web interfaces require the REST API to send actions (reschedule check, etc.) and query object details.

You can run the CLI command `icinga2 api setup` to enable the api feature and set up certificates as well as a new API user root with an auto-generated password in the `/etc/icinga2/conf.d/api-users.conf` configuration file:

```
icinga2 api setup
```

Edit the `api-users.conf` file and add a new `ApiUser` object.

Specify the permissions attribute with minimal permissions required by Icinga Web 2.

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

```
{{{  
object ApiUser "icingaweb2" {  
    password = "Wijsn8Z9eRs5E25d"  
    permissions = [ "status/query", "actions/*", "objects/modify/*", "objects/query/*" ]  
}  
}}}
```

(add an api user for the director as well)

Restart Icinga 2 to activate the configuration.

```
systemctl restart icinga2
```

### Installing Icinga Web 2

```
apt-get install icingaweb2 libapache2-mod-php
```

## Preparing Web Setup

You can set up Icinga Web 2 quickly and easily with the Icinga Web 2 setup wizard which is available the first time you visit Icinga Web 2 in your browser. When using the web setup you are required to authenticate using a token. In order to generate a token use the icingacli:

```
icingacli setup token create
```

In case you do not remember the token you can show it using the icingacli:

```
icingacli setup token show
```

On Debian and derivatives, you need to manually create a database and a database user prior to starting the web wizard.

This is due to local security restrictions whereas the web wizard cannot create a database/user through a local unix domain socket.

### Database for backend use

log as root user

```
mysql -u root -p
```

then execute the following commands to create icingaweb db and director db

### For icingaweb db

```
{{  
CREATE DATABASE icingaweb2;  
  
CREATE USER icingaweb2@localhost IDENTIFIED BY '##PASSWORD##';  
  
GRANT ALL ON icingaweb2.* TO icingaweb2@localhost;  
  
Flush privileges;  
  
quit  
}}
```

## director db

```
{{{
CREATE DATABASE director CHARACTER SET 'utf8';

CREATE USER director@localhost IDENTIFIED BY '##PASSWORD##';

GRANT ALL ON director.* TO director@localhost;

Flush privileges;

quit
}}}
```

## enabling reactbundle module

Copy following script to a bash file and execute or execute in the terminal.

```
{{{
REACTBUNDLE_MODULE_NAME=reactbundle

REACTBUNDLE_MODULE_VERSION=v0.9.0

REACTBUNDLE_REPO="https://github.com/Icinga/icingaweb2-module-
${REACTBUNDLE_MODULE_NAME}"

MODULES_PATH="/usr/share/icingaweb2/modules"

git config --global advice.detachedHead false

git clone ${REACTBUNDLE_REPO} "${MODULES_PATH}/${REACTBUNDLE_MODULE_NAME}" --
branch "${REACTBUNDLE_MODULE_VERSION}"

icingacli module enable "${REACTBUNDLE_MODULE_NAME}"
}}}
```

## enabling ipl module

Copy following script to a bash file and execute or execute in the terminal.

```
{{{
IPL_MODULE_NAME=ipl

IPL_MODULE_VERSION=v0.5.0

IPL_REPO="https://github.com/Icinga/icingaweb2-module-${IPL_MODULE_NAME}"

MODULES_PATH="/usr/share/icingaweb2/modules"

git clone ${IPL_REPO} "${MODULES_PATH}/${IPL_MODULE_NAME}" --branch
"${IPL_MODULE_VERSION}"

icingacli module enable "${IPL_MODULE_NAME}"
}}}
```

## enabling incubator module

Copy following script to a bash file and execute or execute in the terminal.

```
{{{
INCUBATOR_MODULE_NAME=incubator

INCUBATOR_MODULE_VERSION=v0.6.0

INCUBATOR_REPO="https://github.com/Icinga/icingaweb2-module-
${INCUBATOR_MODULE_NAME}"

MODULES_PATH="/usr/share/icingaweb2/modules"

git clone ${INCUBATOR_REPO} "${MODULES_PATH}/${INCUBATOR_MODULE_NAME}" --branch
"${INCUBATOR_MODULE_VERSION}"

icingacli module enable "${INCUBATOR_MODULE_NAME}"
}}}
```

## Enabling Director in Icinga

Copy following script to a bash file and execute. The script with the files to the relevant directory using the script

```
{{{  
ICINGAWEB_MODULEPATH="/usr/share/icingaweb2/modules"  
REPO_URL="https://github.com/icinga/icingaweb2-module-director"  
TARGET_DIR="${ICINGAWEB_MODULEPATH}/director"  
MODULE_VERSION="1.8.0"  
git clone "${REPO_URL}" "${TARGET_DIR}" --branch v${MODULE_VERSION}  
}}}
```

and then enable the icinga-director module

```
icingacli module enable director
```

## enabling business process module

Copy following script to a bash file and execute or execute in the terminal.

```
{{{  
BS_PROCESS_ICINGAWEB_MODULEPATH="/usr/share/icingaweb2/modules"  
BS_PROCESS_REPO_URL="https://github.com/Icinga/icingaweb2-module-businessprocess"  
BS_PROCESS_TARGET_DIR="${ICINGAWEB_MODULEPATH}/businessprocess"  
git clone "${BS_PROCESS_REPO_URL}" "${BS_PROCESS_TARGET_DIR}"  
}}}
```

```
icingacli module enable businessprocess
```

changing the permission for relevant users

```
chown -R www-data:icingaweb2 /etc/icingaweb2/
```

Running a demon for director service

```
useradd -r -g icingaweb2 -d /var/lib/icingadirector -s /bin/false icingadirector
```



```
apt install -d -o icingadirector -g icingaweb2 -m 0750 /var/lib/icingadirector
```

```
{{  
MODULE_PATH=/usr/share/icingaweb2/modules/director  
  
cp "${MODULE_PATH}/contrib/systemd/icinga-director.service" /etc/systemd/system/  
}}
```

```
systemctl daemon-reload
```

```
systemctl enable icinga-director.service
```

```
systemctl start icinga-director.service
```

## Configuration on web

You can set up Icinga Web 2 quickly and easily with the Icinga Web 2 setup wizard which is available the first time you visit Icinga Web 2 in your browser. When using the web setup you are required to authenticate using a token.

```
http://IP-ADDRESS/icingaweb2/setup
```

you can find the token by using the `icingacli` in terminal:

```
icingacli setup token show
```

Use the token to start configuration for `icingaweb2`



### Welcome to the configuration of Icinga Web 2!

This wizard will guide you through the configuration of Icinga Web 2. Once completed and successfully finished you are able to log in and to explore all the new and stunning features!

Setup Token

Next

#### Generating a New Setup Token

To run this wizard a user needs to authenticate using a token which is usually provided to him by an administrator who'd followed the instructions below.

In any case, make sure that all of the following applies to your environment:

- A system group called "icingaweb2" exists
- The user "www-data" is a member of the system group "icingaweb2"

```
addgroup --system icingaweb2;  
usermod -a -G icingaweb2 www-data;
```

If you've got the IcingaCLI installed you can do the following:

```
icingacli setup config directory --group icingaweb2;  
icingacli setup token create;
```

In case the IcingaCLI is missing you can create the token manually:

```
su www-data -s /bin/sh -c "mkdir -m 2770 /etc/icingaweb2; chgrp icingaweb2 /etc/icingaweb2; head -c 12 /dev/urandom | base64 | tee /etc/icingaweb2/setup.token; chmod 0660 /etc/icingaweb2/setup.token;"
```

You can enable the modules needed by sliding bars and click Next:

## Modules

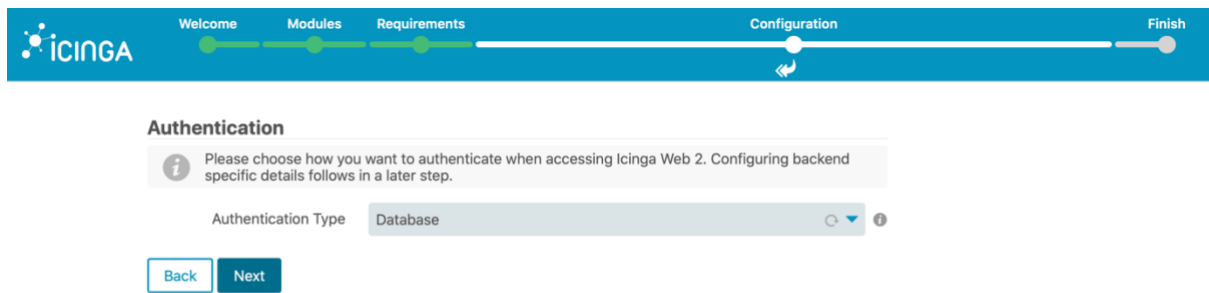
The following modules were found in your Icinga Web 2 installation. To enable and configure a module, just tick it and click "Next".

<b>Businessprocess</b> <input type="checkbox"/> Provides a web-based process modeler for. It integrates as a module into Icinga Web 2 and provides a plugin check command for Icinga. Tile and tree views can be shown inline, as dashlets or fullscreen. All of those for whole processes or just parts of them. Hooks into the monitoring module to show Business Impact for a specific...	<b>Director</b> <input type="checkbox"/> Icinga Director is a configuration tool that has been designed to make Icinga 2 configuration easy and understandable.	<b>Doc</b> <input type="checkbox"/> Extracts, shows and exports documentation for Icinga Web 2 and its modules.
<b>Incubator</b> <input type="checkbox"/> This repository ships libraries useful for Icinga Web 2 modules. Please download the latest release and install it like any other module.	<b>Ipl</b> <input type="checkbox"/> This repository ships libraries useful for Icinga Web 2 modules. Please download the latest release and install it like any other module.	<b>Migrate</b> <input type="checkbox"/> This module was introduced with the domain-aware authentication feature in version 2.5.0. It helps you migrating users and user configurations according to a given domain.
<b>Monitoring</b> <input checked="" type="checkbox"/>	<b>Reactbundle</b> <input type="checkbox"/>	<b>Test</b> <input type="checkbox"/>

In next page modules and the details are listed:

Icinga Web 2		
<b>PHP Version</b>	Running Icinga Web 2 requires PHP version 5.6.	You are running PHP version 7.4.3.
<b>Linux Platform</b>	Icinga Web 2 is developed for and tested on Linux. While we cannot guarantee they will, other platforms may also perform as well.	You are running PHP on a Linux system.
<b>PHP Module: OpenSSL</b>	The PHP module for OpenSSL is required to generate cryptographically safe password salts.	The PHP module OpenSSL is available.
<b>PHP Module: JSON</b>	The JSON module for PHP is required for various export functionalities as well as APIs.	The PHP module JSON is available.
<b>PHP Module: LDAP</b>	If you'd like to authenticate users using LDAP the corresponding PHP module is required.	The PHP module LDAP is available.
<b>PHP Module: INTL</b>	If you want your users to benefit from language, timezone and date/time format negotiation, the INTL module for PHP is required.	The PHP module INTL is available.
<b>PHP Module: DOM</b>	To be able to export views and reports to PDF, the DOM module for PHP is required.	The PHP module DOM is available.
<b>PHP Module: GD</b>	In case you want views being exported to PDF, you'll need the GD extension for PHP.	The PHP module GD is missing.
<b>PHP Module: Imagick</b>	In case you want graphs being exported to PDF as well, you'll need the ImageMagick extension for PHP.	The PHP module Imagick is available.
<b>PHP Module: PDO-MySQL</b>	To store users or preferences in a MySQL database the PDO-MySQL module for PHP is required.	The PHP module PDO-MySQL is available.
<b>Zend database adapter for MySQL</b>	The Zend database adapter for MySQL is required to access a MySQL database.	The Zend database adapter for MySQL is available.

## Use database as Authentication type:

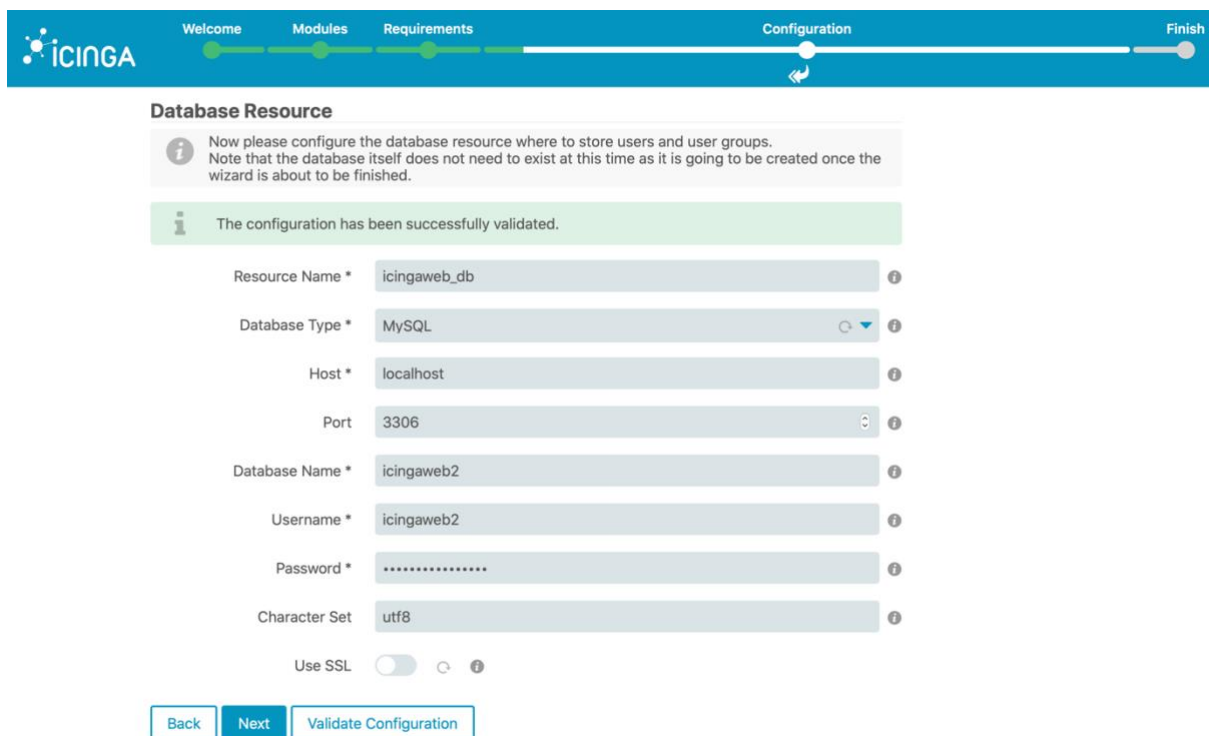


The screenshot shows the Icinga Web 2 Configuration Wizard at the 'Authentication' step. The progress bar at the top indicates the current step is 'Configuration', with 'Welcome', 'Modules', and 'Requirements' completed. The main content area has a title 'Authentication' and an information icon. Below the title is a message: 'Please choose how you want to authenticate when accessing Icinga Web 2. Configuring backend specific details follows in a later step.' Underneath, there is a label 'Authentication Type' and a dropdown menu with 'Database' selected. At the bottom of the form are two buttons: 'Back' and 'Next'.

As the `icingaweb_db` resource, please add `icingaweb2` database details in MySQL.

You can find your database password for `icingaweb2` user in `/home/passwords.txt` file

```
cat /home/passwords.txt
```



The screenshot shows the Icinga Web 2 Configuration Wizard at the 'Database Resource' step. The progress bar at the top indicates the current step is 'Configuration', with 'Welcome', 'Modules', and 'Requirements' completed. The main content area has a title 'Database Resource' and an information icon. Below the title is a message: 'Now please configure the database resource where to store users and user groups. Note that the database itself does not need to exist at this time as it is going to be created once the wizard is about to be finished.' Underneath is a green success message: 'The configuration has been successfully validated.' Below that are several form fields: 'Resource Name \*' (icingaweb\_db), 'Database Type \*' (MySQL), 'Host \*' (localhost), 'Port' (3306), 'Database Name \*' (icingaweb2), 'Username \*' (icingaweb2), 'Password \*' (masked with dots), and 'Character Set' (utf8). At the bottom, there is a 'Use SSL' toggle switch which is turned off. At the very bottom are three buttons: 'Back', 'Next', and 'Validate Configuration'.

Enter Authentication backend as icingaweb2 for the system:

The screenshot shows the Icinga Configuration page. At the top, a progress bar indicates the current step is 'Configuration'. The page title is 'Authentication Backend'. An information icon (i) is followed by the text: 'As you've chosen to use a database for authentication all you need to do now is defining a name for your first authentication backend.' Below this, there is a text input field labeled 'Backend Name' with the value 'icingaweb2'. At the bottom, there are two buttons: 'Back' and 'Next'.

Next, Create a login user for the icingaweb2 portal:

The screenshot shows the Icinga Configuration page. At the top, a progress bar indicates the current step is 'Configuration'. The page title is 'Administration'. An information icon (i) is followed by the text: 'Now it's time to configure your first administrative account or group for Icinga Web 2.' Below this, there are three text input fields: 'Username \*' with the value 'admin', 'Password \*' with masked characters '.....', and 'Repeat password \*' with masked characters '.....'. At the bottom, there are two buttons: 'Back' and 'Next'. A note at the bottom left states '\* Required field'.

Click next to proceed :

The screenshot shows the Icinga Configuration page. At the top, a progress bar indicates the current step is 'Configuration'. The page title is 'Application Configuration'. An information icon (i) is followed by the text: 'Now please adjust all application and logging related configuration options to fit your needs.' Below this, there is a green box with an information icon (i) and the text: 'Note that choosing "Database" as preference storage causes Icinga Web 2 to use the same database as for authentication.' Below this, there are several configuration options: 'Show Stacktraces' (toggle on), 'Show Application State Messages' (toggle on), 'User Preference Storage Type \*' (dropdown menu with 'Database' selected), 'Logging Type \*' (dropdown menu with 'Syslog' selected), 'Logging Level \*' (dropdown menu with 'Error' selected), 'Application Prefix \*' (text input field with 'icingaweb2'), and 'Facility \*' (dropdown menu with 'user' selected). At the bottom, there are two buttons: 'Back' and 'Next'. A note at the bottom left states '\* Required field'.

Change the database name to icinga2 :

The screenshot shows the 'Monitoring Backend' configuration step in the Icinga Web 2 installation wizard. The progress bar at the top indicates the current step is 'Configuration'. The main heading is 'Monitoring Backend'. Below it, an information icon and text state: 'Please configure below how Icinga Web 2 should retrieve monitoring information.' There are two input fields: 'Backend Name \*' with the value 'icinga2' and 'Backend Type \*' with the value 'IDO'. Below the fields are 'Back' and 'Next' buttons. A note at the bottom left says '\* Required field'.

Use the password you typed when the icinga-ido-mysql configurations while executing the installation script:

The screenshot shows the 'Monitoring IDO Resource' configuration step in the Icinga Web 2 installation wizard. The progress bar at the top indicates the current step is 'Configuration'. The main heading is 'Monitoring IDO Resource'. Below it, an information icon and text state: 'Please fill out the connection details below to access the IDO database of your monitoring environment.' There are several input fields: 'Resource Name \*' (icinga\_ido), 'Database Type \*' (MySQL), 'Host \*' (localhost), 'Port' (3306), 'Database Name \*' (icinga2), 'Username \*' (icinga2), 'Password \*' (masked with dots), and 'Character Set' (utf8). There is also a 'Use SSL' toggle switch which is currently turned off. Below the fields are 'Back', 'Next', and 'Validate Configuration' buttons. A note at the bottom left says '\* Required field'.

Enter the api-user details of `icingaweb2` and you can find the details in `/etc/icinga2/conf.d/api-users.conf` file.

(If you get an error while validating api user, please restart the icinga service by `systemctl restart icinga2` and retry):

### Command Transport

Please define below how you want to send commands to your monitoring instance.

The configuration has been successfully validated.

Transport Name \*

Transport Type \*

Host \*

Port \*

API Username \*

API Password \*

[Back](#) [Next](#) [Validate Configuration](#)

\* Required field

Click next to proceed :

### Monitoring Security

To protect your monitoring environment against prying eyes please fill out the settings below.

Protected Custom Variables

[Back](#) [Next](#)

if the configurations are succeeded, following message is shown on the top, and click `Login to icinga web 2` in the right side

### Congratulations! Icinga Web 2 has been successfully set up.

```
Successfully connected to existing database "icingaweb2"...
Creating database schema...
Login "icingaweb2" already exists...
Required privileges were already granted to login "icingaweb2".
The database has been fully set up!

General configuration has been successfully written to:
/etc/icingaweb2/config.ini

Authentication configuration has been successfully written to:
/etc/icingaweb2/authentication.ini
Account "admin" has been successfully created.
Account "admin" has been successfully defined as initial
administrator.

User Group Backend configuration has been successfully written to:
/etc/icingaweb2/groups.ini
User Group "Administrators" has been successfully created.
Account "admin" has been successfully added as member to user group
"Administrators".
```

[Login to Icinga Web 2](#)

## Initial dashboard:

The screenshot shows the Icinga 2 web interface dashboard. The top navigation bar includes 'Current Incidents', 'Overdue', 'Muted', and a search icon. The left sidebar contains navigation options: Dashboard, Problems, Overview, Business Processes, Icinga Director (with a '1' notification), History, Documentation, System, Configuration, and admin. The main content area is divided into three sections: 'Service Problems', 'Recently Recovered Services', and 'Host Problems'. The 'Service Problems' section shows a 'WARNING' for 'apt on learn' with a message: 'APT WARNING: 52 packages available for upgrade (0 critical updates)'. The 'Recently Recovered Services' section lists several services that have returned to an 'OK' state, including 'http on learn', 'disk / on learn', 'swap on learn', 'icinga on learn', 'ping4 on learn', 'disk on learn', 'ssh on learn', 'ping6 on learn', 'load on learn', and 'procs on learn'. The 'Host Problems' section indicates 'No hosts found matching the filter.' A 'Show More' link is visible at the bottom right of the 'Recently Recovered Services' list.

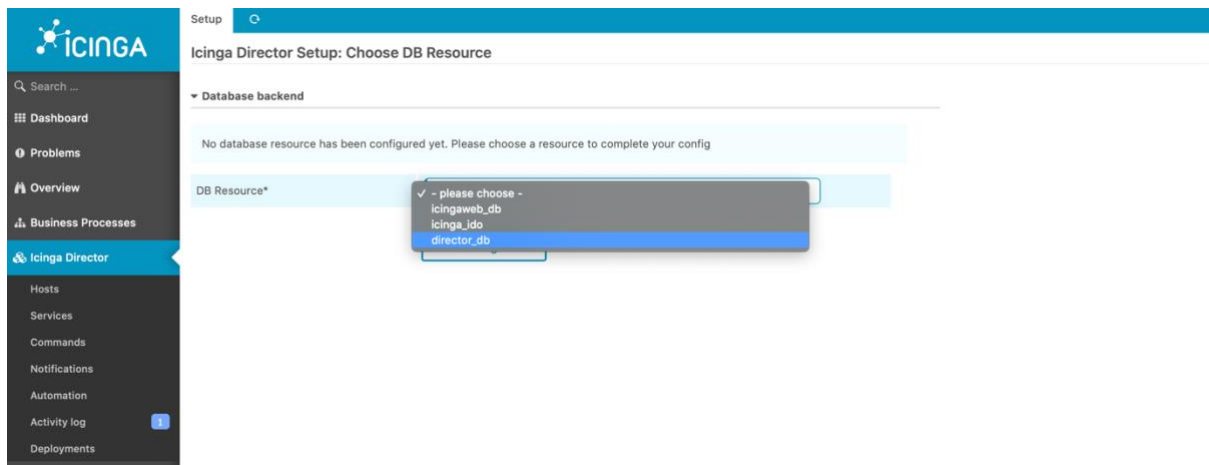
## Setup Icinga Director Module

Icinga2 Director Module will allow you to do the configuration by webapp. Unless you have to do it from CLI. We have installed the module from our script.

Let's Initialise a resource for director module. Resources can be created using `Configurations` > `Application` > `Resource` like following image.

The screenshot shows the Icinga 2 web interface configuration page for a new resource. The top navigation bar includes 'General', 'Resources', and 'Authentication'. The left sidebar is the same as in the previous screenshot, with 'Application' selected. The main content area is titled 'New Resource' and contains a message: 'Resources are entities that provide data to Icinga Web 2.' and 'The configuration has been successfully validated.' Below this is a 'Validation Log' section with the following text: 'Connection to director as director on localhost:3306 successful', 'have\_ssl: DISABLED', 'protocol\_version: 10', 'version: 10.3.29-MariaDB-0ubuntu0.20.04.1', and 'version\_compile\_os: debian-linux-gnu'. The configuration form includes the following fields: 'Resource Type' (SQL Database), 'Resource Name' (director\_db), 'Database Type' (MySQL), 'Host' (localhost), 'Port' (3306), 'Database Name' (director), 'Username' (director), 'Password' (masked with dots), 'Character Set' (utf8), and 'Use SSL' (disabled). There are 'Validate Configuration' and 'Save Changes' buttons at the bottom. A note at the bottom left indicates '\* Required field'.

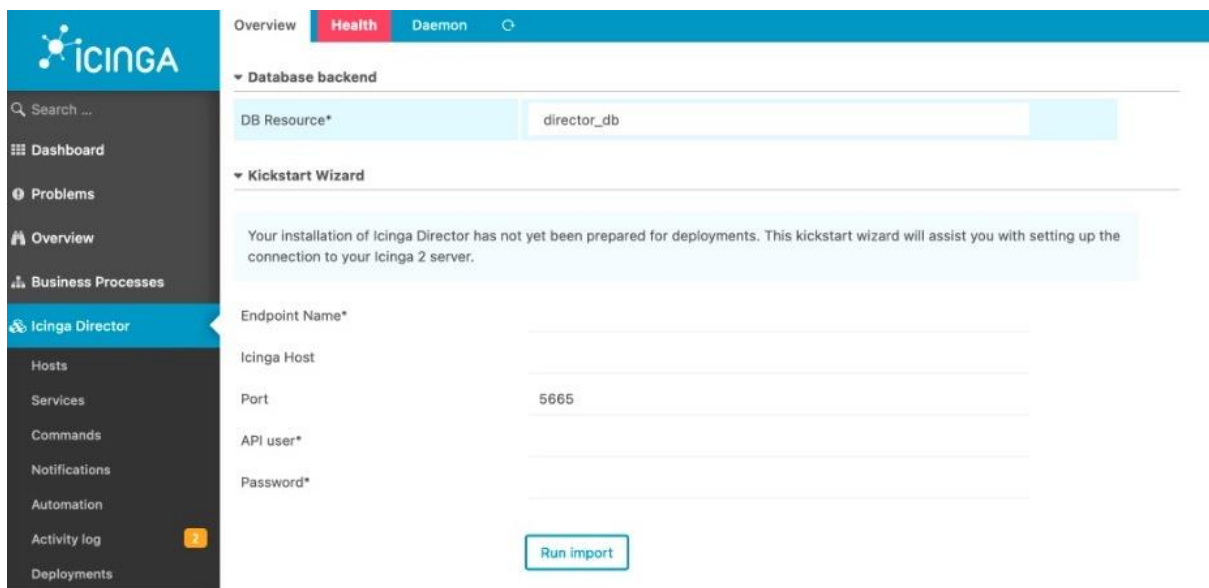
After creating resource for icinga director, select the created resource as follows:



If it asks API details,

- Put the hostname as endpoint
- host as local host
- API user details for director are in `/etc/icinga2/conf.d/api-users.conf` file.

```
cat /etc/icinga2/conf.d/api-users.conf
```



After every deployment, Please deploy by clicking `Deploy pending changes` on the top of the page :

'''Note : Click `Deploy pending changes` after every deployment attempt'''



The screenshot shows the Icinga Activity Log interface. The left sidebar contains navigation options: Dashboard, Problems, Overview, Business Processes, Icinga Director (with sub-items: Hosts, Services, Commands, Notifications, Automation), Activity log (highlighted with a '243' badge), Deployments, and History. The main content area is titled 'Activity Log' and shows a search bar and a navigation bar with 'My changes' and 'Deploy 243 pending changes'. The date is 'Sunday, 23rd May 2021'. A list of 24 deployment commands is shown, all starting with '[admin] create command' and ending with a timestamp of '04:28:15' or '04:28:16'. The commands include: 'mail-host-notification', 'mail-service-notification', 'running\_kernel', 'memory-windows', 'perfmon-windows', 'vmware-esx-soap-vm-io-usage', 'vmware-esx-dc-runtime-issues', 'procs', 'vmware-esx-dc-runtime-listhost', 'rpc', 'mysql\_health', 'printer\_health', 'vmware-esx-soap-host-volumes', 'jmx4perl', 'breeze', 'ssl\_cert', and 'mssql\_health'.

## Adding Hosts

Before adding hosts, the host templates have to be added. These templates should have the details on how host needs to be checked.

The screenshot shows the Icinga Hosts Templates configuration interface. The left sidebar is the same as in the previous screenshot, with 'Hosts' highlighted. The main content area is titled 'All your Host Templates' and shows a search bar and navigation options: back, Add, Tree, and Usage (all). Below this is a table with the header 'Template Name'. To the right, a modal window titled 'Add new Icinga Host template' is open, showing the configuration form for a new template. The form has two sections: 'Main properties' and 'Check execution'. In the 'Main properties' section, 'Name\*' is 'generic hosts', 'Groups' is 'Add a new on...', and 'Check command' is 'hostalive'. In the 'Check execution' section, 'Check interval', 'Retry interval', 'Max check attempts', and 'Check timeout' are empty. 'Execute active checks' is '- please choose -', 'Accept passive checks' is '- please choose -', 'Send notifications' is 'Yes', 'Enable event handler' is '- please choose -', 'Process performance data' is '- please choose -', 'Enable flap detection' is '- please choose -', 'Flapping threshold (high)' and 'Flapping threshold (low)' are empty. The 'Volatile' checkbox is checked, with a value of 'No' in the input field. A tooltip below the input field says 'Whether this check is volatile.'

Add the hosts after adding host template:

The screenshot shows the Icinga Director interface. On the left is a navigation sidebar with 'Hosts' selected. The main content area is split into two panes. The left pane, titled 'Hosts', shows a table with columns for 'Hostname' and 'Address'. The right pane, titled 'Add new Icinga Host', contains a form with the following fields: 'Host Template\*' (generic hosts), 'Hostname\*' (eduroam.ac.uk), 'Display name' (eduroam), 'Host address' (empty), 'IPV6 address' (empty), 'Groups' (Add a new on...), and 'Disabled' (No). Below these are sections for 'Additional properties (5)' and 'Icinga Agent and zone settings (2)', with an 'Add' button at the bottom.

## Adding Services

Before adding services, the service templates has to be added,

The screenshot shows the Icinga Director interface. On the left is a navigation sidebar with 'Services' selected. The main content area is split into two panes. The left pane, titled 'All your Service Templates', shows a table with a column for 'Template Name'. The right pane, titled 'Add new Icinga Service template', contains a form with the following fields: 'Name\*' (HTTP), 'Check command' (http), 'Check interval' (5m), 'Retry interval' (1m), 'Max check attempts' (10), 'Check timeout' (empty), 'Execute active checks' (- please choose -), 'Accept passive checks' (- please choose -), 'Send notifications' (Yes), 'Enable event handler' (- please choose -), 'Process performance data' (- please choose -), 'Enable flap detection' (- please choose -), 'Flapping threshold (high)' (empty), 'Flapping threshold (low)' (empty), and 'Volatile' (No). Below these are sections for 'Additional properties (5)'.

After, services can be added as following as per requirements:

**ICINGA**

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### Services

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Host	Service Name
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### Add new Icinga Service

Main properties

Name\* eduroam-HTTP

Imports\* HTTP

Host\* eduroam.ac.lk

Disabled No

Check command   
Check command definition

Additional properties (5)

Add