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**SILAHKAN MEMBACA DAN MEMBAGIKAN EBOOK INI TANPA  
MENGUBAH APAPUN ISI DAN HAK CIPTA DIDALAMNYA.**

# EBOOK INSTALASI ICINGA2 DI UBUNTU 16.04 SERVER

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## Introduction

Tutorial ini akan membahas bagaimana cara membangun server monitoring menggunakan Icinga di Ubuntu Server 16.04. Icinga sendiri adalah versi terbaru Nagios. Icinga dapat digunakan untuk memonitor status-status dari server-server seperti penggunaan cpu, ram, harddisk, dan layanan-layanannya kemudian melaporkannya apakah sedang kondisi OK, Warning, atau Kritis.

## Spesifikasi Server dan Topologi jaringan

Untuk dapat mengikuti ebook ini dengan baik, sebaiknya kalian ikuti spek dan topologi yang digunakan juga di ebook ini dengan sedikit penyesuaian dengan kondisi di tempat kalian masing-masing.

## Gambar Topologi Jaringan

Internet ---- modem (192.168.10.1) --- switch --- (192.168.10.100) Icinga Server (icinga master)

|

----- (192.168.10.200) WebServer (Icinga klien)

|

----- (192.168.10.50) Laptop

## Spek Server yang digunakan

### Host Icinga Master

OS : Ubuntu 16.04 Server

Spek server : Prosesor dual core, RAM 2gb, hdd 40gb.

Hostname : icinga.rizal.cilsy

IP Address : 192.168.10.100

Gateway : 192.168.10.1

DNS : 8.8.8.8, 8.8.4.4

### Host Icinga Klien

OS : Ubuntu 14.04 Server  
Spek server : Bebas  
Hostname : web.rizal.cilsy  
IP Address : 192.168.10.200  
Gateway : 192.168.10.1  
DNS : 8.8.8.8, 8.8.4.4

## Instalasi Icinga Server

### Install Icinga 2

Tambahkan ppa icinga :

```
$ sudo add-apt-repository ppa:formorer/icinga
```

Update repository cache.

```
# apt-get update
```

Install paket Icinga 2 .

```
# apt-get install -y icinga2
```

Jalankan icinga dan buat icinga autostart :

```
# systemctl start icinga2
```

```
# systemctl enable icinga2
```

### Install Nagios Plugins

Agar icinga dapat melakukan monitoring, harus menambahkan plugin nagios.

```
# apt-get install -y nagios-plugins
```

### Membuat IDO MySQL Database

Install mysql database dan plugin ido mysql :

```
# apt-get install -y mysql-server mysql-client
```

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

Selama instalasi, akan muncul beberapa pertanyaan :

1. Pilih No pada pertanyaan Enabling IDO Modules feature on Icinga 2
2. Pilih No pada pertanyaan Configuring IDO modules with Icinga 2

Setelah selesai, Buat database untuk icinga :

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

```
mysql> CREATE DATABASE icinga2;  
mysql> grant all privileges on icinga2.* to icinga2@localhost identified by  
'icinga123';  
mysql> quit
```

Import database ido mysql ke database yang baru dibuat.

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

## Mengaktifkan modul IDO MySQL

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

```
$ icinga2 feature enable command
```

Tambahkan permission dan hak akses :

```
# usermod -aG nagios www-data
```

## Konfigurasi IDO DB MySQL

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

```
user = "icinga2",  
password = "icinga123",  
host = "localhost",  
database = "icinga2"
```

Terakhir restart icinga

```
# systemctl restart icinga2
```

Selanjutnya install icinga webnya.

## Install PHP 5

```
$ sudo add-apt-repository ppa:ondrej/php  
$ sudo apt-get update  
$ sudo apt-get install php5.6
```

## Install Icinga Web 2

```
# apt-get install -y icingaweb2
```

## Persiapan Setup Icinga Web 2

Tambahkan user www-data ke grup icingaweb2 agar icinga dapat melakukan proses-proses yang terkait dengan sistem.

```
# addgroup --system icingaweb2
```

```
# usermod -a -G icingaweb2 www-data
```

Restart apache server.

```
# systemctl restart apache2
```

## Wizard Icinga Web 2 Setup

Buka browser dan masuk ke <http://ipservericinga/icingaweb2/setup>

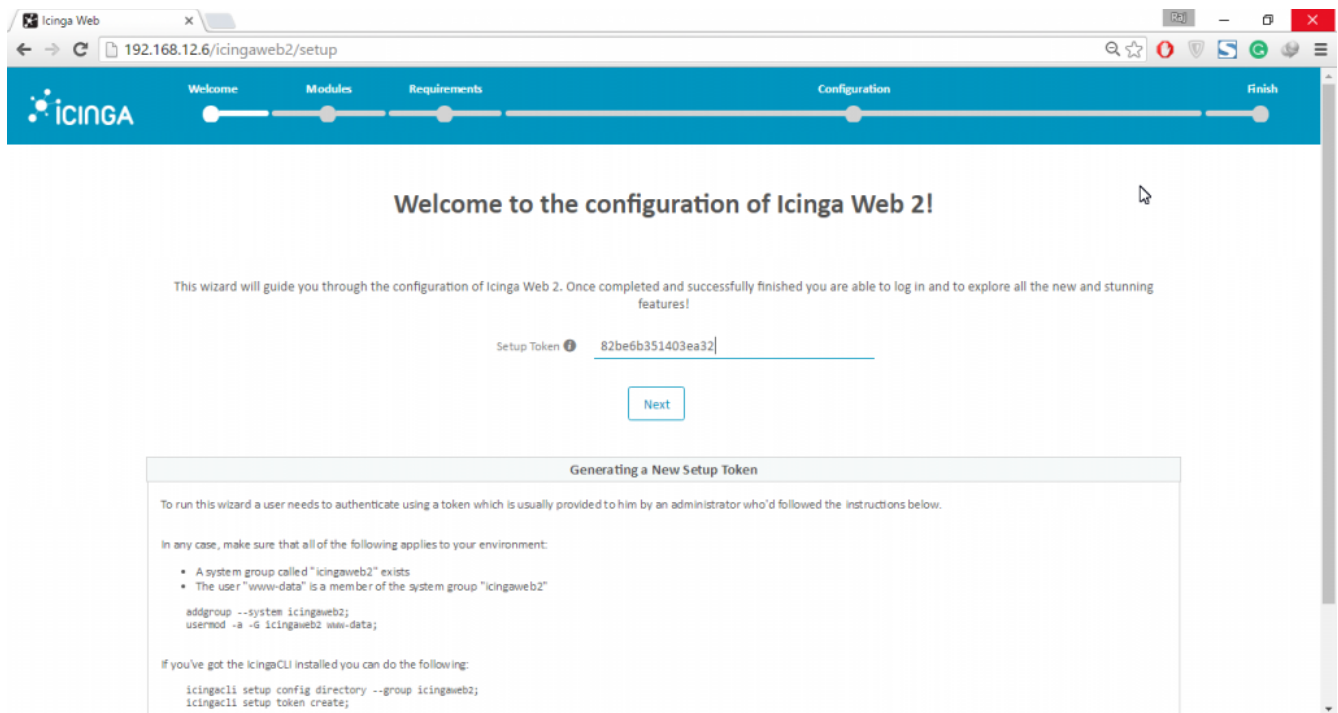
Generate token dengan perintah ini :

```
# icingacli setup token create
```

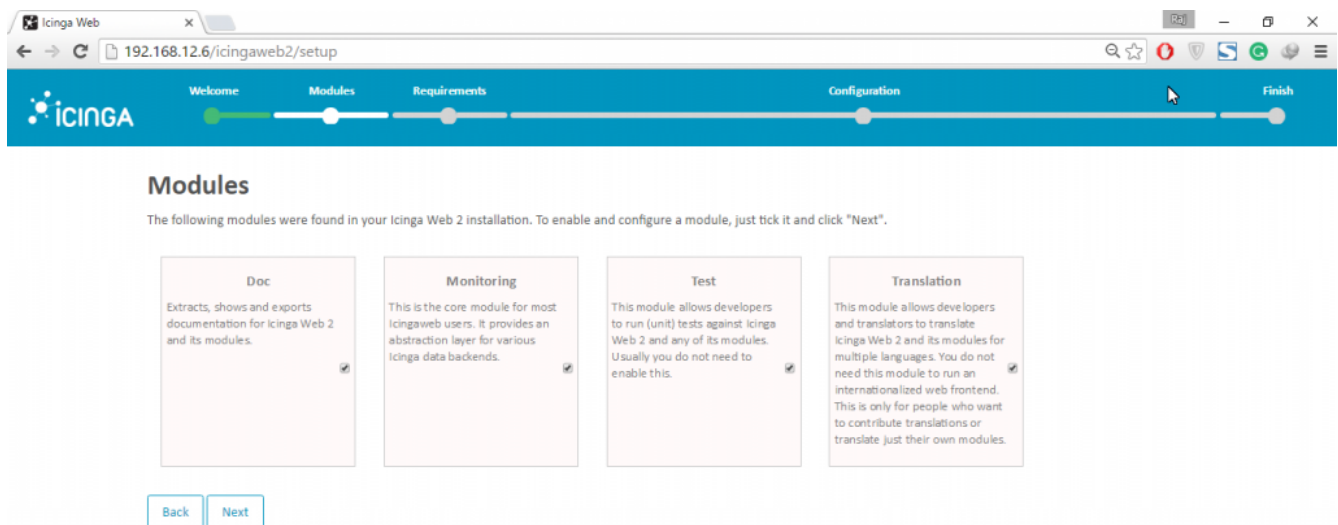
The newly generated setup token is: **8229eeac93ea7ae3**

Kopikan token tersebut pada halaman berikut :





Pilih Next pada halaman ini :



Akan muncul kalau ada beberapa modul yang kurang :





Welcome
Modules
Requirements
Configuration
Finish

Icinga Web 2

PHP Version	Running Icinga Web 2 requires PHP version 5.3.2. Advanced features like the built-in web server require PHP version 5.4.	You are running PHP version 5.6.24-0+deb8u1.
Default Timezone	It is required that a default timezone has been set using date.timezone in /etc/php5/apache2/php.ini.	The PHP config 'date.timezone' is not defined.
Linux Platform	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.
PHP Module: OpenSSL	The PHP module for OpenSSL is required to generate cryptographically safe password salts.	The PHP module OpenSSL is available.
PHP Module: JSON	The JSON module for PHP is required for various export functionalities as well as APIs.	The PHP module JSON is available.
PHP Module: LDAP	If you'd like to authenticate users using LDAP the corresponding PHP module is required.	The PHP module LDAP is available.
PHP Module: INTL	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 missing.
PHP Module: DOM	To be able to export views and reports to PDF, the DOM module for PHP is required.	The PHP module DOM is available.
PHP Module: GD	In case you want views being exported to PDF, you'll need the GD extension for PHP.	The PHP module GD is available.
PHP Module: Imagick	In case you want graphs being exported to PDF as well, you'll need the ImageMagick extension for PHP.	The PHP module Imagick is missing.
PHP Module: PDO-MySQL	To store users or preferences in a MySQL database the PDO-MySQL module for PHP is required.	The PHP module PDO-MySQL is available.
Zend database adapter for MySQL	The Zend database adapter for MySQL is required to access a MySQL database.	The Zend database adapter for MySQL is available.
PHP Module: PDO-PostgreSQL	To store users or preferences in a PostgreSQL database the PDO-PostgreSQL module for PHP is required.	The PHP module PDO-PostgreSQL is missing.
Zend database adapter for PostgreSQL	The Zend database adapter for PostgreSQL is required to access a PostgreSQL database.	The Zend database adapter for PostgreSQL is available.
Read- and writable configuration directory	The Icinga Web 2 configuration directory defaults to "/etc/icingaweb2", if not explicitly set in the environment variable "ICINGAWEB_CONFIGDIR".	The directory /etc/icingaweb2 is read- and writable.
Monitoring Module		
PHP Module: PDO-MySQL	To access the IDO stored in a MySQL database the PDO-MySQL module for PHP is required.	The PHP module PDO-MySQL is available.
Zend database adapter for MySQL	The Zend database adapter for MySQL is required to access a MySQL database.	The Zend database adapter for MySQL is available.
PHP Module: PDO-PostgreSQL	To access the IDO stored in a PostgreSQL database the PDO-PostgreSQL module for PHP is required.	The PHP module PDO-PostgreSQL is missing.
Zend database adapter for PostgreSQL	The Zend database adapter for PostgreSQL is required to access a PostgreSQL database.	The Zend database adapter for PostgreSQL is available.

Back

Next

Refresh

Untuk mengatasi hal tersebut, Install dulu PHP ekstension yang dibutuhkan :

```
# apt-get install -y php5.6-gd php5.6-json php5.6-dba php5.6-intl php5.6-ldap
php5.6-pdo-mysql php5.6-pgsql php5.6-imagick php5.6-dom
```

```
# phpenmod imagick
```

Dan atur juga timezone pada php.ini :


```
# vi /etc/php/5.6/apache2/php.ini
```

```
date.timezone = Asia/Jakarta
```

Restart apache server.

```
# systemctl restart apache2
```

Klik tombol refresh, seharusnya sekarang sudah hijau semua. Baru klik Next.



Welcome

Modules

Requirements

Configuration

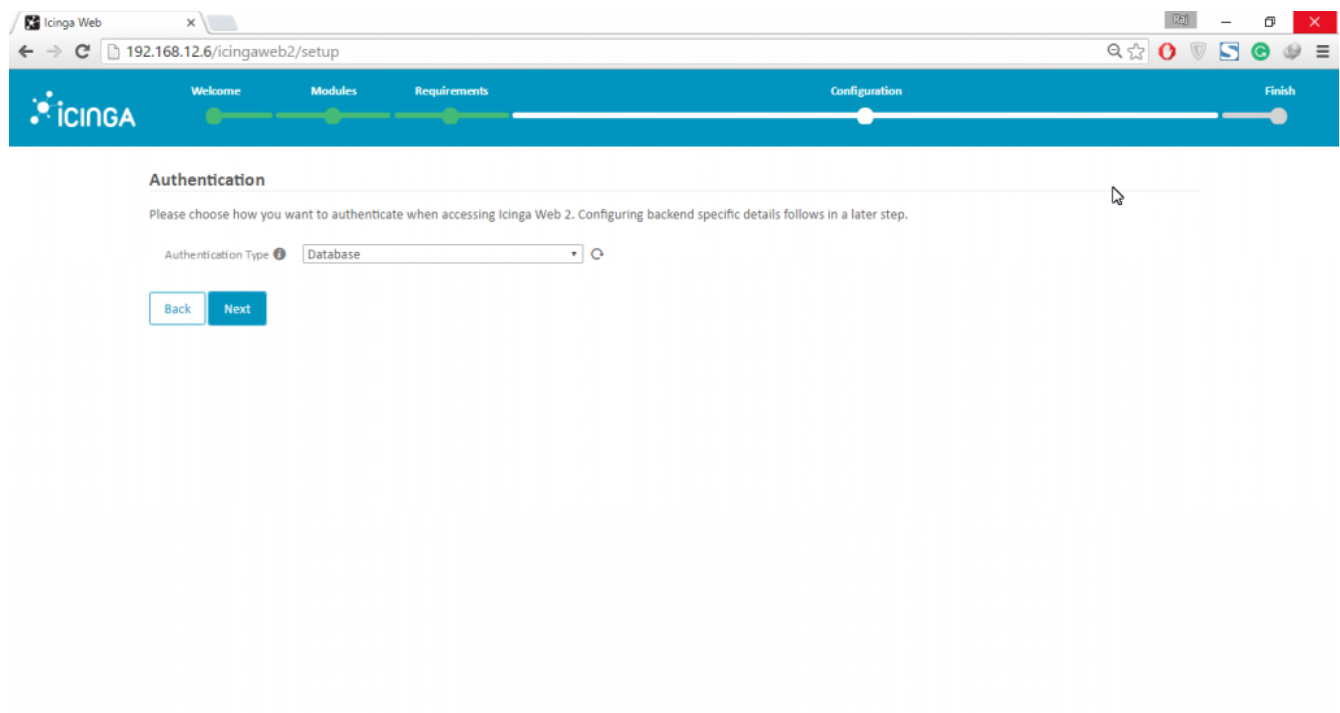
Finish

Icinga Web 2		
PHP Version	Running Icinga Web 2 requires PHP version 5.3.2. Advanced features like the built-in web server require PHP version 5.4.	You are running PHP version 5.6.24-0+deb8u1.
Default Timezone	It is required that a default timezone has been set using date.timezone in /etc/php5/apache2/php.ini.	The PHP config 'date.timezone' is set to "UTC".
Linux Platform	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.
PHP Module: OpenSSL	The PHP module for OpenSSL is required to generate cryptographically safe password salts.	The PHP module OpenSSL is available.
PHP Module: JSON	The JSON module for PHP is required for various export functionalities as well as APIs.	The PHP module JSON is available.
PHP Module: LDAP	If you'd like to authenticate users using LDAP the corresponding PHP module is required.	The PHP module LDAP is available.
PHP Module: INTL	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.
PHP Module: DOM	To be able to export views and reports to PDF, the DOM module for PHP is required.	The PHP module DOM is available.
PHP Module: GD	In case you want views being exported to PDF, you'll need the GD extension for PHP.	The PHP module GD is available.
PHP Module: Imagick	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.
PHP Module: PDO-MySQL	To store users or preferences in a MySQL database the PDO-MySQL module for PHP is required.	The PHP module PDO-MySQL is available.
Zend database adapter for MySQL	The Zend database adapter for MySQL is required to access a MySQL database.	The Zend database adapter for MySQL is available.
PHP Module: PDO-PostgreSQL	To store users or preferences in a PostgreSQL database the PDO-PostgreSQL module for PHP is required.	The PHP module PDO-PostgreSQL is available.
Zend database adapter for PostgreSQL	The Zend database adapter for PostgreSQL is required to access a PostgreSQL database.	The Zend database adapter for PostgreSQL is available.
Read- and writable configuration directory	The Icinga Web 2 configuration directory defaults to "/etc/icingaweb2", if not explicitly set in the environment variable "ICINGAWEB_CONFIGDIR".	The directory /etc/icingaweb2 is read- and writable.
Monitoring Module		
PHP Module: PDO-MySQL	To access the IDO stored in a MySQL database the PDO-MySQL module for PHP is required.	The PHP module PDO-MySQL is available.
Zend database adapter for MySQL	The Zend database adapter for MySQL is required to access a MySQL database.	The Zend database adapter for MySQL is available.
PHP Module: PDO-PostgreSQL	To access the IDO stored in a PostgreSQL database the PDO-PostgreSQL module for PHP is required.	The PHP module PDO-PostgreSQL is available.
Zend database adapter for PostgreSQL	The Zend database adapter for PostgreSQL is required to access a PostgreSQL database.	The Zend database adapter for PostgreSQL is available.

BackNext

Refresh

Disini kita pilih Local Database. Supaya ickinga web punya database sendiri :



Kita buat terlebih dahulu database untuk icingaweb :

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

```
mysql> CREATE DATABASE icingawebdb;
```

```
mysql> grant all privileges on icingawebdb.* to icingaweb@localhost identified by 'icinga123';
```

```
mysql> quit
```

Masukkan data database yang barusan dibuat, ke halaman ini :

The screenshot shows the Icinga Web setup wizard in the 'Configuration' step. The progress bar at the top indicates the current step. The 'Database Resource' section contains the following fields and values:

Field	Value
Resource Name *	icingaweb_db
Database Type *	MySQL
Host *	localhost
Port *	3306
Database Name *	icingawebdb
Username *	icingaweb
Password *	*****
Character Set *	
Persistent *	<input type="checkbox"/>

Below the fields are three buttons: 'Back', 'Next', and 'Validate Configuration'. A blue message box above the fields states: 'The configuration has been successfully validated.'

Masukkan icingaweb2 lalu klik Next :

The screenshot shows the Icinga Web setup wizard in the 'Configuration' step. The progress bar at the top indicates the current step. The 'Authentication Backend' section contains the following field and value:

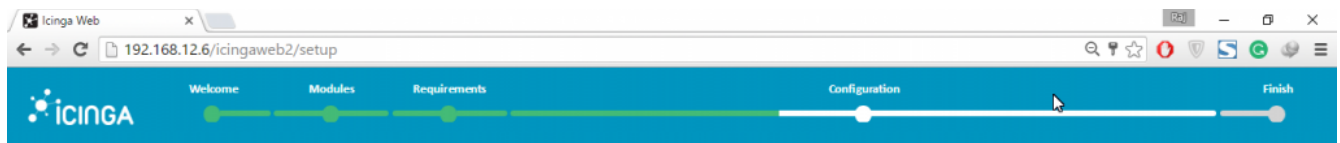
Field	Value
Backend Name *	icingaweb2

Below the field are two buttons: 'Back' and 'Next'.

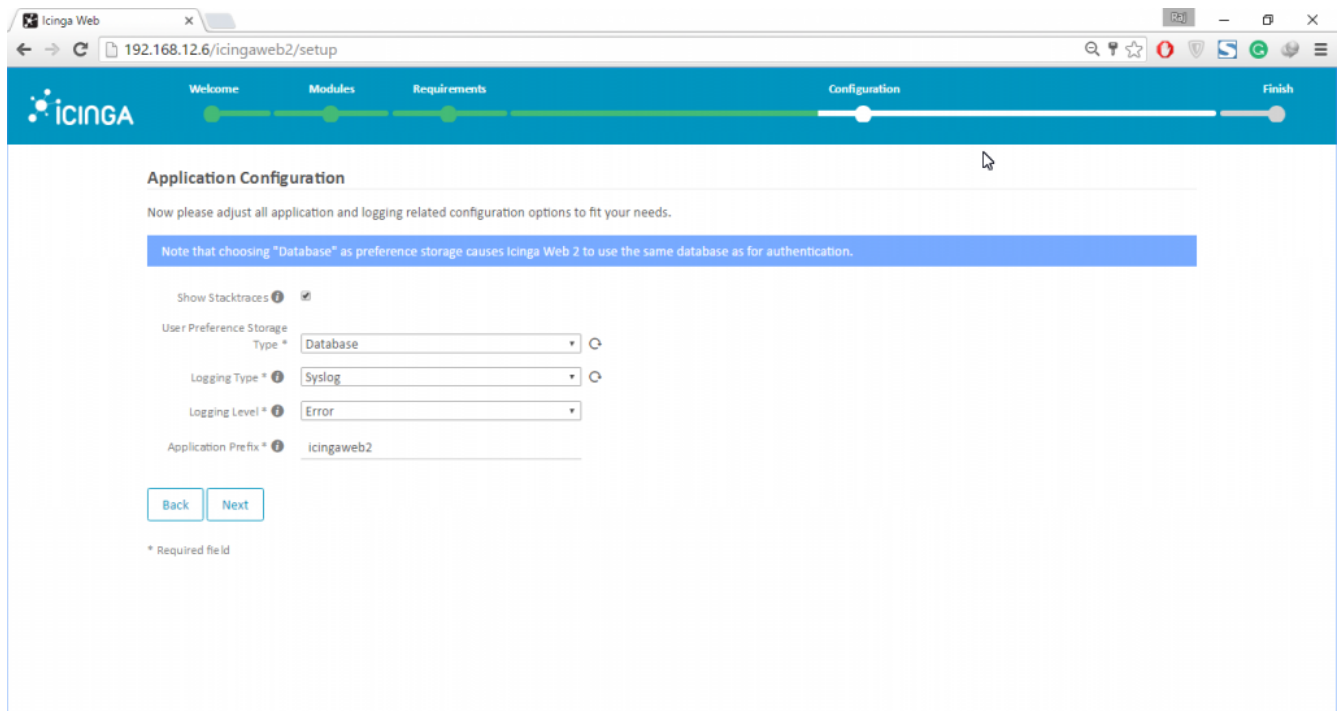
Masukkan data admin baru untuk icingaweb :







Pada bagian ini biarkan saja default dan klik Next :



Review konfigurasi yang kita sudah buat, lalu klik NExt





## Database Setup

## General

- ## Logging

Level	Error
-------	-------

Users will authenticate using a database.

Backend Name icingaweb2

Administrative rights will initially be granted to a new account called "admin".

## Database

Database Type mysql

Port 3306

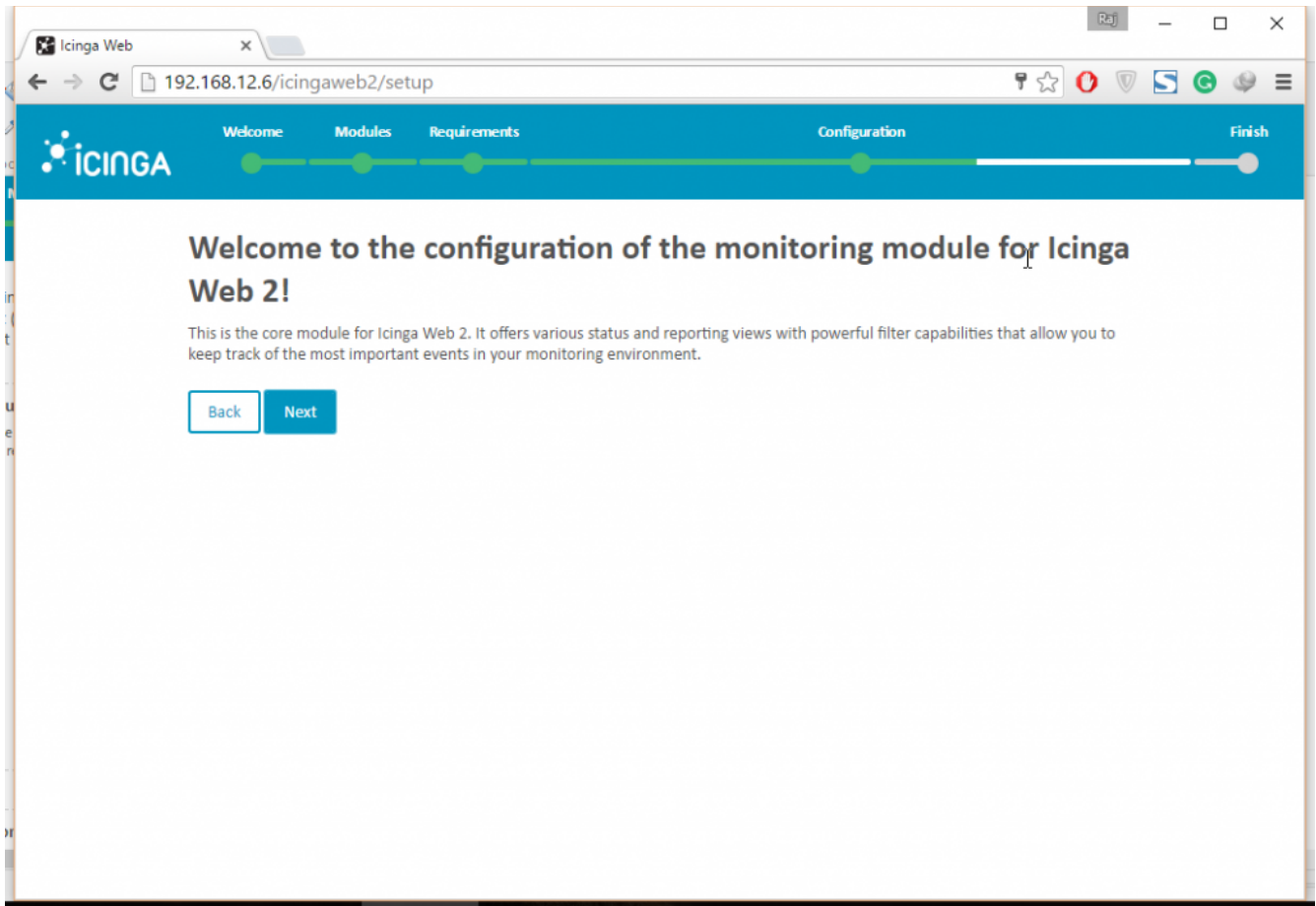
Database Name icingawebdb

Username      icingaweb

Password

Next

Klik Next lagi pada bagian ini :



Monitoring backend kita gunakan IDO, masukkan sesuai gambar lalu klik Next.

The screenshot shows a web browser window with the address bar displaying "192.168.12.6/icingaweb2/setup". The page has a blue header with the Icinga logo and a progress bar with five steps: Welcome, Modules, Requirements, Configuration (current), and Finish. The main content area is titled "Monitoring Backend" and contains the instruction "Please configure below how Icinga Web 2 should retrieve monitoring information." Below this, there are two required fields: "Backend Name" with the value "icinga" and "Backend Type" with a dropdown menu showing "IDO". At the bottom of the form are "Back" and "Next" buttons, and a note "\* Required field".

Icinga Web

192.168.12.6/icingaweb2/setup

Welcome Modules Requirements Configuration Finish

### Monitoring Backend

Please configure below how Icinga Web 2 should retrieve monitoring information.

Backend Name \* icinga

Backend Type \* IDO

Back Next

\* Required field

Masukkan database icinga 2 (bukan icinga web) yang sudah dibuat sebelumnya pada halaman ini :

Icinga Web

192.168.12.6/icingaweb2/setup

### Monitoring IDO Resource

Please fill out the connection details below to access the IDO database of your monitoring environment.

The configuration has been successfully validated.

**validation Log**

```
Connection to icinga2 as icinga2 on localhost:3306 successful
protocol_version: 10
version: 5.5.50-0+deb8u1
version_compile_os: debian-11nux-gnu
```

Resource Name \*

Database Type \*

Host \*

Port \*

Database Name \*

Username \*

Password \*

Character Set

Persistent ☐

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

Klik Next saja pada halaman ini :

The screenshot shows the Icinga Web setup interface in a web browser. The browser's address bar displays '192.168.12.6/icingaweb2/setup'. The top navigation bar includes the Icinga logo and a progress indicator with steps: Welcome, Modules, Requirements, Configuration, and Finish. The 'Configuration' step is currently active. The main content area is titled 'Command Transport' and contains the instruction: 'Please define below how you want to send commands to your monitoring instance.' Below this, there are three input fields: 'Transport Name' with the value 'icinga2', 'Transport Type' with a dropdown menu set to 'Local Command File', and 'Command File' with the value '/var/run/icinga2/cmd/icinga2.cmd'. At the bottom of the form are 'Back' and 'Next' buttons. A legend indicates that an asterisk (\*) denotes a required field.

Command Transport

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

Transport Name \*

Transport Type \*

Command File \*

\* Required field

Masukkan sesuai gambar, lalu klik Next

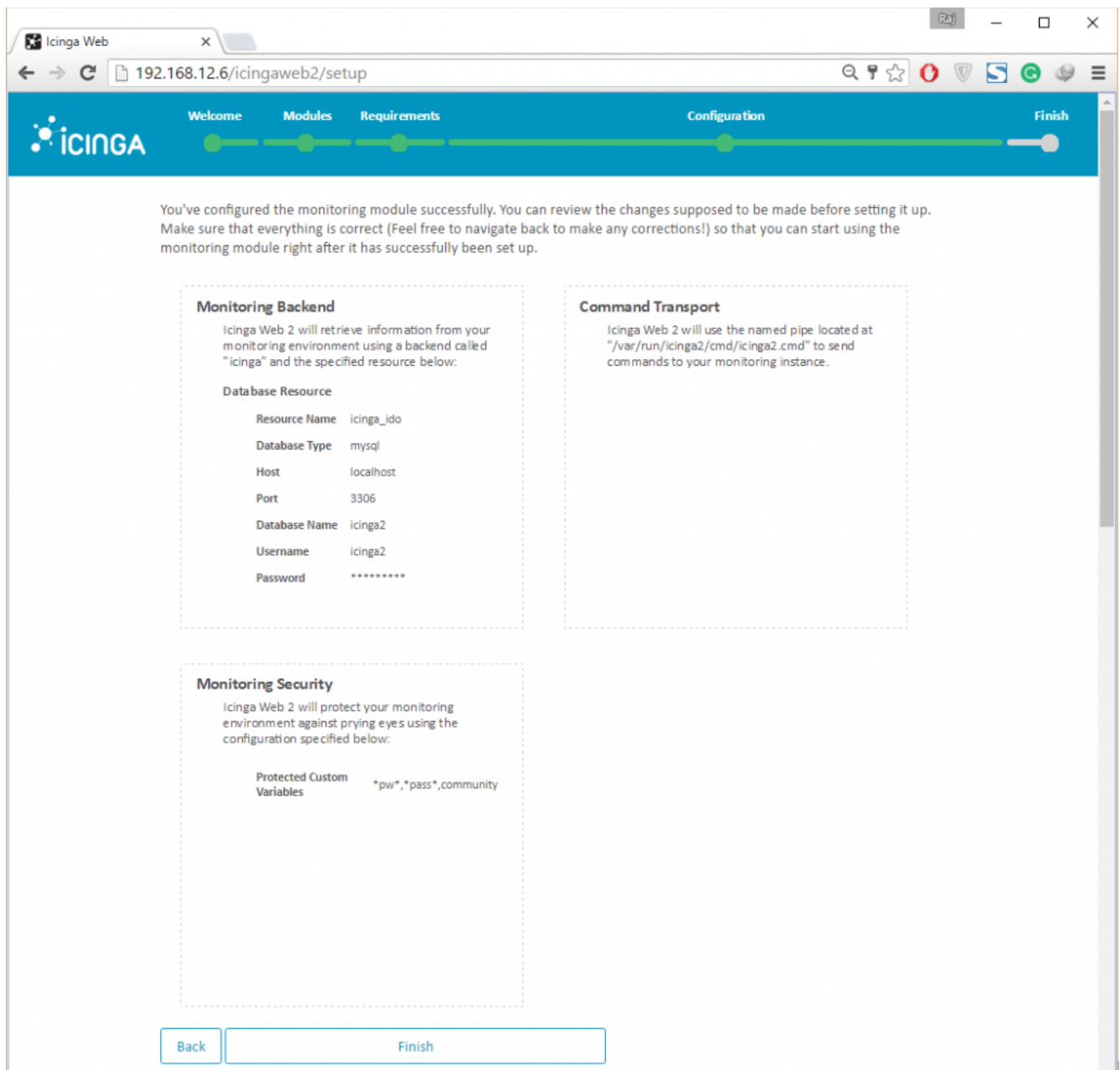
The screenshot shows the Icinga Web setup interface for the 'Monitoring Security' step. The browser's address bar displays '192.168.12.6/icingaweb2/setup'. The top navigation bar is the same as the previous step, with 'Configuration' being the active step. The main content area is titled 'Monitoring Security' and contains the instruction: 'To protect your monitoring environment against prying eyes please fill out the settings below.' Below this, there is a label 'Protected Custom Variables' followed by an input field containing the value '\*pw\*,\*pass\*,community'. At the bottom of the form are 'Back' and 'Next' buttons.

Monitoring Security

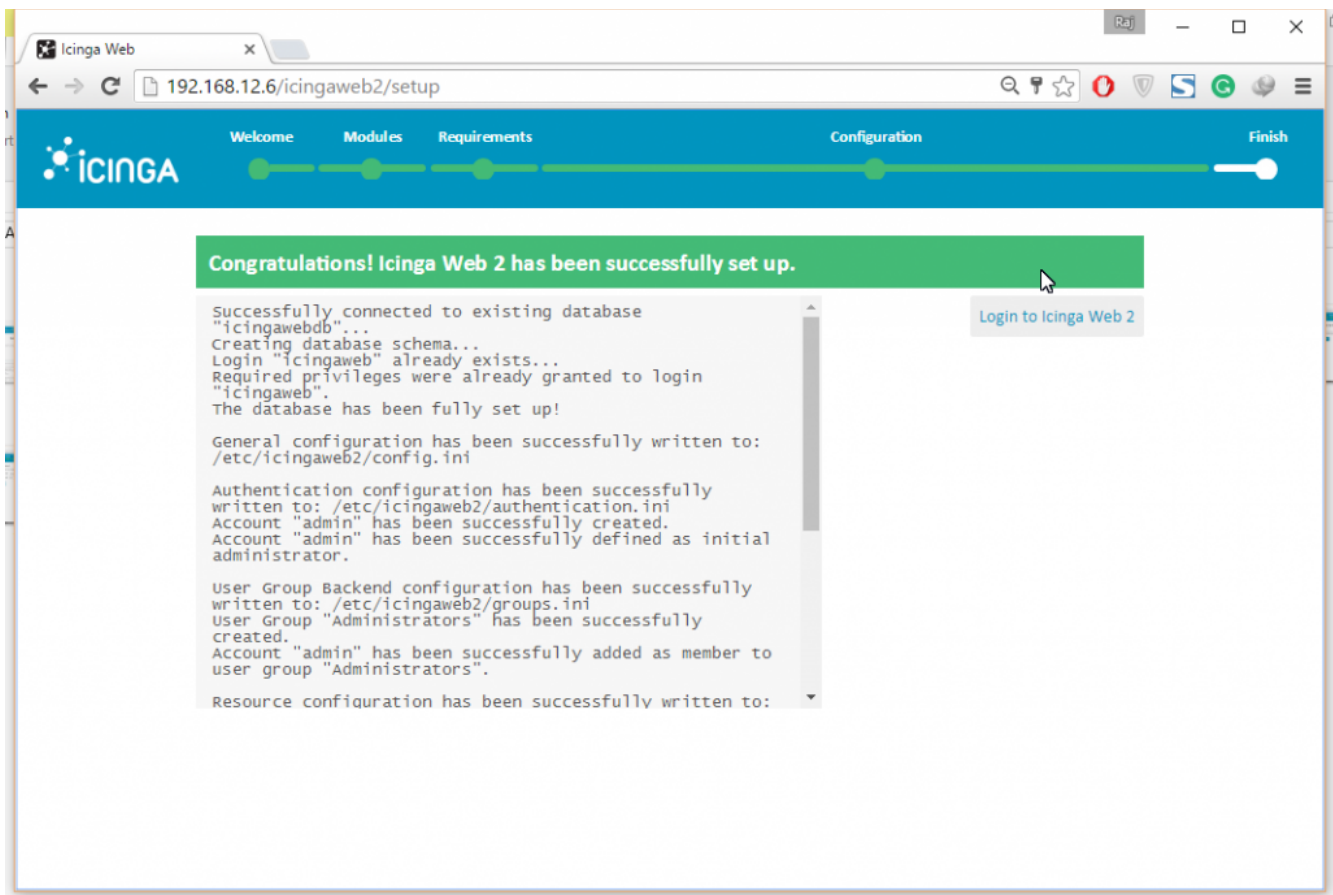
To protect your monitoring environment against prying eyes please fill out the settings below.

Protected Custom Variables

Review semua konfigurasi yang akan dibuat. Klik Next



Berikut tampilan ketika instalasi selesai.



## Cara akses Icinga

Masuk ke dashbor icinga melalui web browser ke <http://ipservericinga/icingaweb2>

## Menambah Host yang akan dimonitoring

Untuk menambahkan Host yang akan di monitoring, konsepnya adalah server yang diinstall icinga menjadi icinga master, lalu host yang mau di monitor adalah icinga client. Pada host icinga master lakukan wizard ini :

```
root@icinga:~# icinga2 node wizard
Welcome to the Icinga 2 Setup Wizard!
```

We'll guide you through all required configuration details.

```
Please specify if this is a satellite setup ('n' installs a master
setup) [Y/n]: n
```

```
Starting the Master setup routine...
```

```
Please specify the common name (CN) [icinga.halmahera.local]:
```



```
Checking for existing certificates for common name
'icinga.halmahera.local'...
Certificates not yet generated. Running 'api setup' now.
information/cli: Generating new CA.
information/base: Writing private key to
'/var/lib/icinga2/ca/ca.key'.
information/base: Writing X509 certificate to
'/var/lib/icinga2/ca/ca.crt'.
information/cli: Generating new CSR in
'/etc/icinga2/pki/icinga.halmahera.local.csr'.
information/base: Writing private key to
'/etc/icinga2/pki/icinga.halmahera.local.key'.
information/base: Writing certificate signing request to
'/etc/icinga2/pki/icinga.halmahera.local.csr'.
information/cli: Signing CSR with CA and writing certificate to
'/etc/icinga2/pki/icinga.halmahera.local.crt'.
information/pki: Writing certificate to file
'/etc/icinga2/pki/icinga.halmahera.local.crt'.
information/cli: Copying CA certificate to '/etc/icinga2/pki/ca.crt'.
Generating master configuration for Icinga 2.
information/cli: Adding new ApiUser 'root' in
'/etc/icinga2/conf.d/api-users.conf'.
information/cli: Enabling the 'api' feature.
Enabling feature api. Make sure to restart Icinga 2 for these changes
to take effect.
information/cli: Dumping config items to file
'/etc/icinga2/zones.conf'.
information/cli: Created backup file '/etc/icinga2/zones.conf.orig'.
Please specify the API bind host/port (optional):
Bind Host []:
Bind Port []:
information/cli: Created backup file '/etc/icinga2/features-
available/api.conf.orig'.
information/cli: Updating constants.conf.
information/cli: Created backup file
'/etc/icinga2/constants.conf.orig'.
information/cli: Updating constants file
'/etc/icinga2/constants.conf'.
information/cli: Updating constants file
'/etc/icinga2/constants.conf'.
information/cli: Updating constants file
'/etc/icinga2/constants.conf'.
Done.
```

Now restart your Icinga 2 daemon to finish the installation!

Lalu restart service icinga :

```
root@icinga:~# systemctl restart icinga2
```

Lalu dari host klien, misal ubuntu 14.04 lakukan instalasi icinga2 dulu :

```
# sudo add-apt-repository ppa:formorer/icinga
# sudo apt-get update
# sudo apt-get install icinga2
# sudo service icinga2 restart
```

Kemudian lakukan ini untuk memulai wizard penambahan klien ke master icinga :

```
root@web:~# icinga2 node wizard
Welcome to the Icinga 2 Setup Wizard!
```

We'll guide you through all required configuration details.

```
Please specify if this is a satellite setup ('n' installs a master
setup) [Y/n]: y
Starting the Node setup routine...
Please specify the common name (CN) [web.halmahera.local]:
Please specify the master endpoint(s) this node should connect to:
Master Common Name (CN from your master setup):
icinga.halmahera.local
Do you want to establish a connection to the master from this node?
[Y/n]: y
Please fill out the master connection information:
Master endpoint host (Your master's IP address or FQDN):
icinga.halmahera.local
Master endpoint port [5665]:
Add more master endpoints? [y/N]:
Please specify the master connection for CSR auto-signing (defaults
to master endpoint host):
Host [icinga.halmahera.local]:
Port [5665]:
information/base: Writing private key to
'/etc/icinga2/pki/web.halmahera.local.key'.
information/base: Writing X509 certificate to
'/etc/icinga2/pki/web.halmahera.local.crt'.
information/cli: Fetching public certificate from master
(icinga.halmahera.local, 5665):
```

Certificate information:

```
Subject:      CN = icinga.halmahera.local
Issuer:       CN = Icinga CA
Valid From:   May 17 14:00:03 2017 GMT
Valid Until:  May 13 14:00:03 2032 GMT
Fingerprint: 1B 0F C5 46 B9 94 3F FE 8A 86 AA C6 86 F6 35 56 34 DA
FF 78
```

Is this information correct? [y/N]: y  
information/cli: Received trusted master certificate.

Please specify the request ticket generated on your Icinga 2 master.  
(Hint: # icinga2 pki ticket --cn 'web.halmahera.local'):

Saat diminta validasi ticket, maka lakukan perintah yang diminta di icinga master :

```
root@icinga:~# icinga2 pki ticket --cn 'web.halmahera.local'
fd6431a98e5cdc2cb3a302f61f2cb050e8af8e05
```

Kopikan tiket yang muncul dari host master tersebut ke host klien lalu ikuti lagi langkah-langkah berikutnya.

```
Please specify the request ticket generated on your Icinga 2 master.
(Hint: # icinga2 pki ticket --cn 'web.halmahera.local'):
fd6431a98e5cdc2cb3a302f61f2cb050e8af8e05
information/cli: Requesting certificate with ticket
'fd6431a98e5cdc2cb3a302f61f2cb050e8af8e05'.
```

```
information/cli: Created backup file
'/etc/icinga2/pki/web.halmahera.local.crt.orig'.
information/cli: Writing signed certificate to file
'/etc/icinga2/pki/web.halmahera.local.crt'.
information/cli: Writing CA certificate to file
'/etc/icinga2/pki/ca.crt'.
Please specify the API bind host/port (optional):
Bind Host []:
Bind Port []:
Accept config from master? [y/N]: y
Accept commands from master? [y/N]: y
information/cli: Disabling the Notification feature.
Disabling feature notification. Make sure to restart Icinga 2 for
these changes to take effect.
information/cli: Enabling the Apilistener feature.
Enabling feature api. Make sure to restart Icinga 2 for these changes
to take effect.
information/cli: Created backup file '/etc/icinga2/features-
available/api.conf.orig'.
information/cli: Generating local zones.conf.
information/cli: Dumping config items to file
'/etc/icinga2/zones.conf'.
information/cli: Created backup file '/etc/icinga2/zones.conf.orig'.
information/cli: Updating constants.conf.
information/cli: Created backup file
'/etc/icinga2/constants.conf.orig'.
information/cli: Updating constants file
'/etc/icinga2/constants.conf'.
```

```
information/cli: Updating constants file
'/etc/icinga2/constants.conf'.
Done.
```

Now restart your Icinga 2 daemon to finish the installation!

Restart icinga di host klien :

```
root@web:~# service icinga2 restart
```

Pada komputer host master icinga cek apakah sudah bertambah :

```
root@icinga:~# icinga2 node list
Warning: CLI command 'node list' is DEPRECATED! Please read the
Changelog.
```

```
Node 'web.halmahera.local' (last seen: Wed May 17 21:08:56 2017)
* Host 'web.halmahera.local'
  * Service 'apt'
  * Service 'disk'
  * Service 'disk /'
  * Service 'http'
  * Service 'icinga'
  * Service 'load'
  * Service 'ping4'
  * Service 'ping6'
  * Service 'procs'
  * Service 'ssh'
  * Service 'swap'
  * Service 'users'
```

Jika muncul seperti diatas, berarti host klien sudah bertambah. Lalu lakukan perintah ini di host icinga master untuk menyelesaikan proses penambahan :

```
root@icinga:~# icinga2 node update-config
Warning: CLI command 'node update-config' is DEPRECATED! Please read
the Changelog.
```

```
information/cli: Updating node configuration for
Node 'web.halmahera.local' (last seen: Wed May 17 21:09:26 2017)
* Host 'web.halmahera.local'
  * Service 'apt'
  * Service 'disk'
  * Service 'disk /'
  * Service 'http'
  * Service 'icinga'
  * Service 'load'
  * Service 'ping4'
  * Service 'ping6'
```

- \* Service 'procs'
- \* Service 'ssh'
- \* Service 'swap'
- \* Service 'users'

information/cli: Adding host 'web.halmahera.local' to the repository.  
information/cli: Dumping changelog items to file  
'/var/lib/icinga2/repository/changes/1495030230.111212-Host-6b1459a145f193f5ac96c9075f43410dab51d400310f9cebf69c10e45bf4605d.chan  
ge'  
information/cli: Dumping changelog items to file  
'/var/lib/icinga2/repository/changes/1495030230.112300-Service-5009a047a11fbd680bb40d2f23cd3fcd626ac2d672c38e16f53bd622c3961534.chan  
ge'  
information/cli: Dumping changelog items to file  
'/var/lib/icinga2/repository/changes/1495030230.112647-Service-1044dec7206e8d7c9fbb4ae8f766668406d2567fc7fc1a160a9d4700fcf8f8e9.chan  
ge'  
information/cli: Dumping changelog items to file  
'/var/lib/icinga2/repository/changes/1495030230.113001-Service-6a29594f8e9a9bd6e6c13fdd4a19c333b3f5cf35377811c8671a1a271d7364ae.chan  
ge'  
information/cli: Dumping changelog items to file  
'/var/lib/icinga2/repository/changes/1495030230.113372-Service-e0603c499aae47eb89343ad0ef3178e044c62e70ae2309b35591d1d49a3211ec.chan  
ge'  
information/cli: Dumping changelog items to file  
'/var/lib/icinga2/repository/changes/1495030230.113702-Service-2eb9c534258d20f7c437141670d7c09d7afbab65b2ac9cd2034be27b122cbb41.chan  
ge'  
information/cli: Dumping changelog items to file  
'/var/lib/icinga2/repository/changes/1495030230.114025-Service-0cf67fc72b3c86c7a454f6d86b43ed245a8e491d0e5288d4da8c7ff43a7bcdb0.chan  
ge'  
information/cli: Dumping changelog items to file  
'/var/lib/icinga2/repository/changes/1495030230.114333-Service-571605952ba28ee6740b5a9b50f1e76393f1e4cdaf3115438bcdeddf8e473065.chan  
ge'  
information/cli: Dumping changelog items to file  
'/var/lib/icinga2/repository/changes/1495030230.114645-Service-d7535967c0481dbeb28afe542a40e2f0687f4fc5b5fc5abafacbd4c24ff0d9cf.chan  
ge'  
information/cli: Dumping changelog items to file  
'/var/lib/icinga2/repository/changes/1495030230.114954-Service-277d2f898036fa83a8f790fd6680e3c89e2ccea4921a17b6ccb6c8f464ebb97.chan  
ge'  
information/cli: Dumping changelog items to file  
'/var/lib/icinga2/repository/changes/1495030230.115281-Service-7f5a55cf3f88be936fb9440249cb449f3067ccee4b525d0027dc9278a29c32c1.chan  
ge'

```
information/cli: Dumping changelog items to file
'/var/lib/icinga2/repository/changes/1495030230.115599-Service-
da47c2f450a4f9d538d86d600d55149afd39d6672fdd1f30c68ad5be21cadad8.chan
ge'
information/cli: Dumping changelog items to file
'/var/lib/icinga2/repository/changes/1495030230.115930-Service-
7dfb4cf67742cb0660305e56ef816c53fcec892cae7f6ee39b75f34e659d672c.chan
ge'
information/cli: Adding endpoint 'web.halmahera.local' to the
repository.
information/cli: Dumping changelog items to file
'/var/lib/icinga2/repository/changes/1495030230.116277-Endpoint-
6b1459a145f193f5ac96c9075f43410dab51d400310f9cebf69c10e45bf4605d.chan
ge'
information/cli: Adding zone 'web.halmahera.local' to the repository.
information/cli: Dumping changelog items to file
'/var/lib/icinga2/repository/changes/1495030230.117338-Zone-
6b1459a145f193f5ac96c9075f43410dab51d400310f9cebf69c10e45bf4605d.chan
ge'
information/cli: Committing node configuration.
Changes to be committed:
```

```
Adding host 'web.halmahera.local'
    check_command = "cluster-zone"
    import = [ "satellite-host" ]
Adding service 'apt'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
    zone = "web.halmahera.local"
Adding service 'disk'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
    zone = "web.halmahera.local"
Adding service 'disk /'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
    zone = "web.halmahera.local"
Adding service 'http'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
    zone = "web.halmahera.local"
Adding service 'icinga'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
```

```

        zone = "web.halmahera.local"
Adding service 'load'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
    zone = "web.halmahera.local"
Adding service 'ping4'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
    zone = "web.halmahera.local"
Adding service 'ping6'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
    zone = "web.halmahera.local"
Adding service 'procs'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
    zone = "web.halmahera.local"
Adding service 'ssh'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
    zone = "web.halmahera.local"
Adding service 'swap'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
    zone = "web.halmahera.local"
Adding service 'users'
    check_command = "dummy"
    host_name = "web.halmahera.local"
    import = [ "satellite-service" ]
    zone = "web.halmahera.local"
Adding endpoint 'web.halmahera.local'
Adding zone 'web.halmahera.local'
    endpoints = [ "web.halmahera.local" ]
    parent = "icinga.halmahera.local"

```

```

information/cli: Writing config object 'web.halmahera.local' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local.conf'
information/cli: Writing config object 'apt' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/apt.conf'
information/cli: Writing config object 'disk' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/disk.conf'
information/cli: Writing config object 'disk /' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/disk %2F.conf'

```

```
information/cli: Writing config object 'http' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/http.conf'
information/cli: Writing config object 'icinga' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/icinga.conf'
information/cli: Writing config object 'load' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/load.conf'
information/cli: Writing config object 'ping4' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/ping4.conf'
information/cli: Writing config object 'ping6' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/ping6.conf'
information/cli: Writing config object 'procs' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/procs.conf'
information/cli: Writing config object 'ssh' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/ssh.conf'
information/cli: Writing config object 'swap' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/swap.conf'
information/cli: Writing config object 'users' to file
'/etc/icinga2/repository.d/hosts/web.halmahera.local/users.conf'
information/cli: Writing config object 'web.halmahera.local' to file
'/etc/icinga2/repository.d/endpoints/web.halmahera.local.conf'
information/cli: Writing config object 'web.halmahera.local' to file
'/etc/icinga2/repository.d/zones/web.halmahera.local.conf'
Make sure to reload Icinga 2 for these changes to take effect.
```

Restart server icinga di host master icinga :

```
root@icinga:~# systemctl restart icinga2
```

Lalu bisa dicek saja di dashboard icinga harusnya sudah muncul klien yang barunya. kalau misal masih down, tidak apa-apa ditunggu saja. Terkadang memang agak lama munculnya.