Comment installer-icinga-2-logiciel-de-contrôle-sur-debian-12

Icinga 2 is an open-source monitoring system that checks the availability of network resources, notifies users of outages, and generates performance data for reporting. You can monitor network services (SMTP, POP3, HTTP, NNTP, ping), host resources (CPU usage, Disk usage), and network components (switches, routers, temperature, and humidity sensors) using Icinga2. It can be integrated with Nagios plugins

In the following tutorial, you will learn how to install Icinga2 on a Debian 12 server and connect it to a client node. Instead of the default Apache server, we will use Nginx to run Icinga2 Web.

Prerequisites

- Two machines running Debian 12. One of them will act as a Master server and another one will act as the client for monitoring
- A non-root user with sudo privileges on both servers.
- A fully qualified domain name (FQDN) for the master server, *icinga.example.com* and the client node, *client.example.com*
- Make sure everything is updated.
- \$ sudo apt update && sudo apt upgrade • Few packages that your system needs.
 - \$ sudo apt install wget curl nano software-properties-common dirmngr apt-transport-https gnupg2 ca-certificates lsb-release debian-archive-keyring ufw unzip

Some of these packages may already be installed on your system.

Step 1 - Configure Firewall on the Master server

The first step is to configure the firewall. Debian comes with ufw (Uncomplicated Firewall) by default

Check if the firewall is running.

\$ sudo ufw status

You should get the following output.

Status: inactive

Allow SSH port so the firewall doesn't break the current connection on enabling it.

\$ sudo ufw allow OpenSSH

Allow port 5665 which is required by the Icinga2 client to connect to the server.

\$ sudo ufw allow 5665

Allow HTTP and HTTPS ports as well.

\$ sudo ufw allow http \$ sudo ufw allow http

Enable the Firewall

sudo ufw enable ommand may disrupt existing ssh connections. Pro irewall is active and enabled on system startup with c ration (y/n)? y

Check the status of the firewall again

\$ sudo ufw status

You should see a similar output.

Status: active То --OpenSSH 80/tcp 443 5665 OpenSSH (v6) 80/tcp (v6) 443 (v6) 5665 (v6)

Fron

Step 2 - Install MariaDB Server

Actio

ALLOW ALLOW ALLOW

Debian 12 ships with the latest version of MariaDB. You can install it with a single command.

\$ sudo apt install mariadb-server

Check the version of MySQL.

\$ mysql --version
mysql Ver 15.1 Distrib 10.11.4-MariaDB, for debian-linux-gnu (x86_64) using EditLine

Run the MariaDB secure install script.

\$ sudo mariadb-secure-installation

You will be asked for the root password. Press Enter because we haven't set any password for it.

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL Mariade SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the curre password for the root user. If you've just installed MariaDB, a haven't set the root password yet, you should just press enter

Enter current password for root (enter for none):

Next, you will be asked if you want to switch to the Unix socket authentication method. The unix_socket plugin allows you to use your operating system credentials to connect to the MariaDB server. Since you already have a protected root account, enter n to proceed.

OK, successfully used password, moving on...

Setting the root password or using the unix socket ensures that nobody can log into the MariaDB root user without the proper authorisation.

You already have your root account protected, so you can safely answer 'n'.

Switch to unix_socket authentication [Y/n] n

Next, you will be asked if you want to change your root password. On Debian 12, the root password is tied closely to automated system maintenance, so it should be left alone. Type n to proceed further.

... skipping.

You already have your root account protected, so you can safely answer 'n'. Change the root password? [Y/n] n

Next, you will be asked certain questions to improve MariaDB security. Type Y to remove anonymous users, disallow remote root logins, remove the test database, and reload the privilege tables.

... skipping.

....skipping: W default, a MariaBD without shart an an anonymous user, allowing anyone to log into MariaBD without shart an anonymous user, allowing anyone to log into MariaBD without shart and to make the installation go a bit smother. You should remove them before moving into a production environment. Remove anonymous users? [Y/n] y ... Success! Normally, root should only be allowed to connect from 'localhost'. This ensures that Some cannot guess at the root password from the network. Disallow root login remotely? [Y/n] y ... Success! Mormally, root should only be allowed to connect from 'localhost'. This success! Mormally, root should only be allowed to connect from 'localhost'. This success! Mormally root login remotely? [Y/n] y ... Success! Remove test database and access to if? [Y/n] y ... Success! Remove test database... ... Success! Remove test database... ... Success! Remove privileges to test database... Success! Reloading the privilege tables now? [Y/n] y ... Success! Reloading the privilege tables now? [Y/n] y ... Success! Cleaning up... All done! If you've completed all of the above steps, your MariaDB Installation should move be score: Thanks for using MariaBD! You can enter the MariaBD shell by typing sudo mysql or sudo mariado on the command line.

Step 3 - Configure MariaDB

Log in to the MariaDB shell. Enter your root password when prompted.

\$ sudo mysql

Create the Icinga database.

MariaDB [(none)]> CREATE DATABASE icinga2;

Create the SQL user account for Icinga2. Don't change the database and the username because they are already set by default. If you want to change them, you will need to perform some extra steps while installing the MySQL driver in Step 5. Enter the password and you will get an error and then be asked to reconfigure where you can specify your custom database name and users.

MariaDB [(none)]> CREATE USER 'icinga2'@'localhost' IDENTIFIED BY 'Your_password2';

Grant all privileges on the database to the user.

MariaDB [(none)]> GRANT ALL PRIVILEGES ON icinga2.* TO 'icinga2'@'localhost';

Since we are not modifying the root user, you should create another SQL user for performing administrative tasks that employ password authentication. Choose a strong password for this one.

MariaDB> GRANT ALL ON *.* TO 'navjot'@'localhost' IDENTIFIED BY 'Yourpassword32!' WITH GRANT OPTION,

Flush user privileges.

MariaDB [(none)]> FLUSH PRIVILEGES

Exit the shell.

MariaDB [(none)]> exit

Step 4 - Install Icinga2 and Monitoring plugins on the Master Server

We will use the Icinga2 official repository for installation. Download and import the Icinga2 GPG key.

\$ wget -0 - https://packages.icinga.com/icinga.key | sudo gpg --dearmor -o /usr/share/keyrings/icinga-archive-keyring.gpg

Run the following commands to create and add the Icinga2 repository information to the APT sources list.

\$ echo "deb [signed-by=/usr/share/keyrings/icinga-archive-keyring.gpg] https://packages.icinga.com/debian icinga-`lsb release -cs` main" | sudo tee /etc/apt/sources.list.d/\$(lsb release -cs)-icinga.list \$ echo "deb-src [signed-by=/usr/share/keyrings/icinga-archive-keyring.gpg] http://packages.icinga.com/debian icinga-`lsb release -cs` main" | sudo tee -a /etc/apt/sources.list.d/\$(lsb release -cs)-icinga.list \$

Update the system repositories list.

\$ sudo apt update

Install Icinga2, Icingacli, and the monitoring plugins.

\$ sudo apt install icinga2 monitoring-plugins -y

Step 5 - Install IDO MySQL driver on the Master Server

For Icinga2 to work, it needs a database. For that, we need to install the IDO MySQL driver and set up the database connection. Run the following command to install the MySQL driver.

\$ sudo apt install -y icinga2-ido-mysql

Next, you will be asked to enable the **ido-mysql** feature. Select **Yes** to continue.



Next, You will be prompted to set up the driver and create a database using the *dbconfig-common* utility. Select Yes to continue



Next, you will be asked for the MySQL password for the icinga2 database. Enter the password configured in step 3 to continue.



Step 6 - Configure Icinga2 API

To manage and configure the Icinga2 monitoring through HTTP, you need to configure the Icinga2 API. Run the following command to enable the Icinga2 API, generate TLS certificates for Icinga2, and update Icinga2 configurations

\$ sudo icinga2 api setup

You will get a similar output.

information/cli: Generating new CA. information/base: Writing Trivet key to '/var/lib/icinga2/ca/ca.key'. information/base: Writing Sto99 certificate to '/var/lib/icinga2/certs//icinga.example.com.csr'. information/base: Writing private key to '/var/lib/icinga2/certs//icinga2.example.com.csr'. information/base: Writing certificate signing request to '/var/lib/icinga2/certs//icinga.example.com.csr'. information/base: Writing certificate to file '/var/lib/icinga2/certs//icinga2/certs//icinga.example.com.csr'. information/cli: Generatic to file '/var/lib/icinga2/certs//icinga2/certs//icinga.example.com.csr'. information/cli: Goping CA certificate to '/var/lib/icinga2/conts/dapi-users.com.crt'. information/cli: Goping CA certificate to '/var/lib/icinga2/conts/dapi-users.com.crt'. information/cli: Generatinga2/certs/icinga2/cont.dapi-users.comf'. information/cli: Enabling the 'api' feature. Enabling feature api. Make sure to restart Linga 2 for these changes to take effect. information/cli: Updating 'ModeMame' constant in '/etc/icinga2/constants.conf'. information/cli: Updating 'ZoneMame' constant in '/etc/icinga2/constants.conf'. information/cli: Updating 'ZoneMame' constant in '/etc/icinga2/constants.conf'. information/cli: Backup file 'Zetc/icinga2/constants.conf'. information/cli: Backup file '/etc/icinga2/constants.conf'.

Now restart your Icinga 2 daemon to finish the installation!

The above command creates a /etc/icinga2/conf.d/api-users.conf file with the default user root having all the permissions over the Icinga2 API. We need a new user with minimal permissions required by Icinga Web.

Open the api-users.conf file for editing.

\$ sudo nano /etc/icinga2/conf.d/api-users.conf

Add the following code at the end of the file. Choose a strong password for the API.

/** api for icingaweb2 */
object Apilser "icingaweb2" {
 password = "passwordApilcingaweb2"
 permissions = ["status/query", "actions/*", "objects/modify/*", "objects/query/*"]
}

Make a note of the credentials which will be needed later on to access the website. The Icinga2 API server listens on port 5665 by default. Restart the service for the changes to take effect.

\$ sudo systemctl restart icinga2

The next step is to install the Icinga Web interface. It comes pre-configured for Apache but we will be using the Nginx server. Therefore, first, we need to install Nginx and the SSL certificates.

Step 7 - Install Nginx

Debian 12 ships with an older version of Nginx. To install the latest version, you need to download the official Nginx repository.

Import Nginx's signing key.

Add the repository for Nginx's mainline versio

<pre>\$ echo "deb [signed-by=/usr/share/keyrings/nginx+archive-keyring.gpg arch=amd64] \ http://nginx.org/packages/mainline/debian `lsb release -cs' nginx* \ sudo tee /etc/apt/sources.list.d/nginx.list</pre>
Update the system repositories.
\$ sudo apt update
Install Nginx.
\$ sudo apt install nginx
Verify the installation. On Debian systems, the following command will only work with sudo.
\$ sudo nginx -v nginx version: nginx/1.25.3
Start the Nginx server.
\$ sudo systemctl start nginx
Check the service status.
<pre>\$ suda systemctl status nginx ? nginx.service - nginx - high performance web server Loaded: loaded (/lib/system/nginx.service; enabled; preset: enabled) Active: active (running) since Mon 2024-01-08 07:43:24 UTC; 4s ago Docs: https://nginx.org/en/docs/ Process: https://nginx.org/en/docs/ Process: https://nginx. Tasks: 3 (limit: 229) Memory: 2.9M CPU: 16ms (Group: /system.slice/nginx.service ?716333 "nginx: worker process"</pre>
Jan 08 07:43:24 icinga systemd[1]: Starting nginx.service - nginx - high performance web server Jan 08 07:43:24 icinga systemd[1]: Started nginx.service - nginx - high performance web server.
Step 8 - Install SSL
We need to install Certbot to generate the SSL certificate. You can install Certbot using Debian's repository or grab the latest version using the Snapd tool. We will be using the Snapd version.
Debian 12 comes doesn't come with Snapd installed. Install Snapd package.
\$ sudo apt install snapd

Run the following commands to ensure that your version of Snapd is up to date.	
\$ sudo snap install core && sudo snap refresh core	
Install Certbot.	
\$ sudo snap installclassic certbot	
Use the following command to ensure that the Certbot command can be run by creating a symbolic link to the /usr/bin directory.	
\$ sudo ln -s /snap/bin/certbot /usr/bin/certbot	
Verify if Certbot is functioning correctly.	
\$ certbotversion certbot 2.8.0	
Run the following command to generate an SSL Certificate.	
\$ sudo certbot certonlynginxagree-tosno-eff-emailstaple-ocsppreferred-challenges http -m name@example.com -d icinga.example.com	
The above command will download a certificate to the /etc/letsencrypt/live/icinga.example.com directory on your server.	
Generate a Diffie-Hellman group certificate.	
\$ sudo openssl dhparam -dsaparam -out /etc/ssl/certs/dhparam.pem 4096	

Check the Certbot renewal scheduler service.

You will find snap. certbot. renew. service as one of the services scheduled to run.

NEXT	LEFT	LAST	PASSED	UNIT	ACTIVATES
Mon 2024-01-08 09:47:46 UTC Mon 2024-01-08 13:35:00 UTC Tue 2024-01-09 00:00:00 UTC	1h 56min left 5h 43min left 16h left	Sun 2024-01-07 09:47:46 UT Mon 2024-01-08 00:00:01 UT	22h ago - 7h ago	systemd-tmpfiles-clean.timer snap.certbot.renew.timer dpkg-db-backup.timer	systemd-tmpfiles-clean.service snap.certbat.renew.service dpkg-db-backup.service
Do a dry run of the proces	ss to check w	hether the SSL renewal	is work	ing fine.	

\$ sudo certbot renew --dry-run

If you see no errors, you are all set. Your certificate will renew automatically.

Step 9 - Configure Nginx and PHP

Since Icinga is configured for Apache, the PHP-FPM package is not installed by default. You will also need the PHP Imagick module if you want to export the graphs to PDF. Run the following command to install PHP-FPM and the PHP Imagick library.

\$ sudo apt install php-fpm php-imagick

Configure PHP-FPM

Open the file /etc/php/8,2/fpm/pool.d/www.conf

\$ sudo nano /etc/php/8.2/fpm/pool.d/www.conf

We need to set the Unix user/group of PHP processes to nginx. Find the lata lines in the file and change them to nginx. -data and a

; Unix user/group of processes ; Note: The user is mandatory. If the group is not set, the default user's group set = nginx group = nginx

Find the listen.owner = www-data and listen.group = www-data lines in the file and change them to nginx.

- Set permissions for unix socket, if one is used. In Linux, read/write permissions must be set in order to allow connections from a web server. Many BSD-derived systems allow connections regardless of permissions. The owner and group can be specified either by name or by their numeric IDs. Default Values: user and group are set as the running user (tean owner = noise is set to 0660

- ; mo listen.owner = nginx listen.group = nginx

Save the file by pressing Ctrl + X and entering Y when prompted.

Restart the PHP-FPM service.

\$ sudo systemctl restart php8.2-fpm

Configure Nginx

Create and open the file /etc/nginx/conf.d/icinga.conf for editing

\$ sudo nano /etc/nginx/conf.d/icinga.conf

Paste the following code in it.

server { listen 443 ssl http2; listen [::]:443 ssl http2; server_name icinga.example.com;

access_log /var/log/nginx/icinga.access.log; error_log /var/log/nginx/icinga.error.log;

- Find_og final_set # SSL S cipers Love X25519:prime256v1:secp38 s[_stapling_on; s[_stapling_verify_on; s[_dhparam_/etc/ss]/certs/dhparam.pem; esolver 8.8.8.8;
- location '/index\.php[.*]\$ {
 location '/index\.php[.*]\$ {
 fastcg1 pass 127.0.0.1:9000;
 fastcg1 pass unix:/un/php/php8.2-fpm.sock; # Depends On The PHP Version
 fastcg1 index index.php;
 fastcg1 split path info '(.+\.php)(/.+)\$;
 include fastcg1 parama;
 fastcg1 params:
 fastcg1 params:CRLPT FILENWE /usr/share/icingaweb2/public/index.php;
 fastcg1 param SCRUPT FILENWE /usr/share/icingaweb2/public/index.php;
 fastcg1 param REMOTE USER \$remote_user;
 }
- location ~ ^/(.*)? {
 alias /usr/share/icingaweb2/public;
 index index.php;
 rewrite ^/\$ /dashboard;
 try_files \$1 \$uri \$uri/ /index.php\$is_args\$args;
 }
 }
- location ~ \.php\$ { return 404; } # enforce HTTPS server { ver { listen listen 80; [::]:80; icinga.example.com; https://\$host\$request_uri; server_name return 301

Notice the root directory to be used in the Nginx configuration is /usr/share/icingaweb2/public.

Save the file by pressing Ctrl + X and entering Y when prompted once finished.

Open the file /etc/nginx/nginx.conf for editing.

\$ sudo nano /etc/nginx/nginx.conf

Add the following line before the line include /etc/nginx/conf.d/*.conf;.

server names hash bucket size 64;

Save the file by pressing Ctrl + X and entering Y when prompted.

Verify the Nginx configuration file syntax.

\$ sudo nginx -t nginx: the configuration file /etc/nginx/nginx.conf syntax is ok nginx: configuration file /etc/nginx/nginx.conf test is successful

Restart the Nginx service.

\$ sudo systemctl restart nginx

Step 10 - Prepare Web Setup

Before accessing Icinga Web, we need to install it along with the command line tool.



Enter the token generated in the previous step and press the $\ensuremath{\mathbf{Next}}$ button to proceed.



On the next screen, choose the modules you want to install and click Next to proceed. The Monitoring module is selected for you by default. On the next page, you will be shown the requirements and whether they have been fulfilled. Make sure all the requirements are marked green.



Fill in the database credentials created in step 10. Click the Validate Configuration button to verify the credentials. Once verified, click Next to proceed. Next, you will be asked to name the authentication backend.



Leave the default value and click Next to proceed. On the next page, you will be asked to create an administrator account.



Enter the credentials for your new administrator account and click Next to proceed. Next, you will be shown the Application Configuration page.



Click Next to proceed with the configuration of the monitoring module. Next, you will be asked for Icinga database credentials.





Once finished successfully, click the Login to Icinga Web 2 button to open the login page (https://icinga.example.com).



Please specify the common name (CN) [icinga.example.com]: Reconfiguring Icinga... Checking for existing certificates for common name 'icinga.example.com'... Certificate '/var/lib/icinga2/certs//icinga.example.com.crt' for CN 'icinga.example.com' already existing. Skipping certificate generation. Generating master configuration for Icinga 2. 'api' feature already enabled.

Next, enter the master zone name and press Enter to proceed. In our case, it is the same as the server domain name.

Master zone name [master]: icinga.example.com

Next, you will be asked if you want to add any additional global zones. Press n to skip adding and press Enter to proceed

ivex, you will be asked if you want to add any additional global solids. I ress # to skip adding and press Lifer to proceed.
Default global zones: global-templates director-global Do you want to specify additional global zones? [y/N]: n
In the next step, leave the API bind host and port as default and press Enter to proceed.
Please specify the API bind host/port (optional): Bind Host []: Bind Port []:
Next, press r to disable the configuration inside the /etc/icinga2/conf.d/ directory since we will use the Icinga2 Zones configuration later.
Do you want to disable the inclusion of the conf.d directory [Y/n]: Y Disabling the inclusion of the conf.d directory Checking users.conf file exists Done.
Now restart your Icinga 2 daemon to finish the installation!
Restart the service to apply the changes.
\$ sudo systemctl restart icinga2
And last but not least, run the following command to create a ticket for the client server. Use the client's domain name as the argument.
\$ sudo icinga2 pki ticketcn 'client.example.com' c81f2a3b86534f34169ed8b776996e5452d8dd99c
Note down the ticket for use later.
Step 13 - Initialize Icinga2 Agent on Client Server
Log in to the client server and install Icinga2 and the monitoring plugins. Run the following commands to do that.
<pre>\$ wget -0 - https://packages.icinga.com/icinga.key / Sudo apgdearmor -0 /usr/share/keyrings/icinga-archive-keyring.spg \$ echo "deb [signed-by=/usr/share/keyrings/icinga-archive-keyring.gg] https://packages.icinga.com/debian icinga- "lsb release -cs` main" sudo tee /etc/apt/sources.list.d/\$(lsb release -cs)-icinga.list \$ echo "deb [signed-by=/usr/share/keyrings/icinga-archive-keyring.gg] http://packages.icinga.com/debian icinga- "lsb release -cs` main" sudo tee -a /etc/apt/sources.list.d/\$(lsb_release -cs)-icinga.list \$ echo "deb signed-by=/usr/share/keyrings/icinga-archive-keyring.gg] http://packages.icinga.com/debian icinga- "lsb_release -cs` main" sudo tee -a /etc/apt/sources.list.d/\$(lsb_release -cs)-icinga.list \$ sudo apt update \$ sudo apt install icinga2 monitoring-plugins -y</pre>
Verify if the Icinga service is enabled and running.
\$ sudo systemicil status icinga2 7 licinga2.service - licinga host/service/network monitoring system Loaded: loaded (/lib/system//system/icinga2.service; enabled; preset: enabled) Drop-in: /etc/system/system/sringa2.service.d ??Tlimits.conf Active: active (running) since Non 2024-01-08 12:52:53 UTC; 35s ago
Nall / 10. 1006 (standar) Status: "Startup finished." Tasks: 12 Memory: 13.4M
LVU: zloms CGroup: /system.slice/icinga2.service 7719553 /usr/lib/x86 64-limux-gnu/icinga2/sbin/icinga2no-stack-rlimit daemonclose-stdio -e /var/log/icinga2/error.log 7719557 /usr/lib/x86 64-limux-gnu/icinga2/sbin/icinga2no-stack-rlimit daemonclose-stdio -e /var/log/icinga2/error.log
??19\$78 /usr/lib/x86_64-linux-gnu/icinga2/sbin/icinga2no-stack-rlimit daemonclose-stdio -e /var/log/icinga2/error.log
start the tempa Node wizard to initialize the agent on the client server.
You will be prompted if it is an agent setup. Enter r to set up the agent.
Welcome to the Icinga 2 Setup Wizard!
We will guide you through all required configuration details. Please specify if this is an agent/satellite setup ('n' installs a master setup) [Y/n]: Y
Next, you will be asked to specify the common name. Leave the default value and press Enter to proceed.
Starting the Agent/Satellite setup routine Please specify the common name (CN) [client.example.com]:
Next, specify the parent endpoint as <i>icinga.example.com</i> and enter <i>y</i> to establish a connection to the parent node from the client.
Please specify the parent endpoint(s) (master or satellite) where this node should connect to: Master/Satellite Common Name (CN from your master/satellite node): icinga.example.com Do you want to establish a connection to the parent node from this node? [Y/n]: Y
Next, enter the IP address of the master server and leave the port value unchanged as default.
Please specify the master/satellite connection information: Master/Satellite endpoint host (IP address or FQDM): 199.247.31.184 Master/Satellite endpoint port [5665]:
Enter <i>w</i> to reject adding more master endpoints.
Add more master/satellite endpoints? [y/N]: N
Next, you will be shown the certificate information for the master server. Press r to confirm the information and proceed.
Parent certificate information: Version: 3 Subject: CN = icinga.example.com Issuer: CN = Icinga CA Valid From: Jan & 07:36:55 2024 GMT Valid From: Jan & 07:36:55 2025 GMT Valid From: Jan & 07:36:55 2025 GMT Serial: 3a:e5:5e:e6:d5:5e:cc:1d:89:be:18:0b:10:cb:7d:54:8f:82:b1:5e
Signature Algorithm: sha256WithRSAEncryption Subject Alt Names: icinga.example.com Fingeprint: DB 62 00 20 AF 73 02 F2 86 92 5E AB 50 CD 0F 4F F2 D6 9E 86 AE F6 F9 E4 D7 F2 F2 60 78 1B 92 E5 Is this information correct? [y/N]: Y
Next, enter the request ticket generated in the previous step.
Please specify the request ticket generated on your Icinga 2 master (optional). (Hint: # icinga2 pki ticketcn 'client.example.com'): c81f2a3b86534f34160ed8b776906e5452d8d09c
Leave the API bind host and port as default and press Enter to continue.
Please specify the API bind host/port (optional): Bind Host []: Bind Port []:

Next, enter $\ensuremath{\textit{v}}\xspace$ twice to accept configuration and commands from the master node.

Accept config from parent node? [y/N]: Y Accept commands from parent node? [y/N]: Y
Press Enter to accept the default local zone name which is the client domain name. Enter the master domain name as the parent zone name to proceed.
Reconfiguring Icinga Disabling feature notification. Make sure to restart Icinga 2 for these changes to take effect. Enabling feature api. Make sure to restart Icinga 2 for these changes to take effect. Local zone name [client.example.com]: Parent zone name [master]: icinga.example.com
Press <i>y</i> to skip adding additional global zones.
Default global zones: global-templates director-global Do you want to specify additional global zones? {y/N}: N
Press y to skip disable the configurations from the /etc/icinga2/conf.d/ directory.
Do you want to disable the inclusion of the conf.d directory [Y/n]: Y Disabling the inclusion of the conf.d directory Done.
Now restart your Icinga 2 daemon to finish the installation!
Restart the Icinga service to apply the configuration changes.
\$ sudo systemetl restart icinga2
Step 14 - Create Zones Configuration on the Master Server
Log back into the server and create a new directory as the default zone.
\$ sudo mkdir -p /etc/icinga2/zones.d/icinga.example.com/
Next, create a configuration file in the newly created directory and open it for editing. <pre>\$ sudo nano /etc/icinga2/zones.d/icinga.example.com/client.example.com</pre>
Paste the following code in it. The IP address in the code should match the public IP address of the client.
<pre>// Endpoints object Endpoint "client.example.com" {</pre>
address = "95.179.138.148" vars.client_endpoint = name }
Save the file by pressing Ctrl + X and entering Y when prompted once finished.
Create and open the services file for editing.
\$ sudo nano /etc/icinga2/zones.d/icinga.example.com/services.conf
Paste the following code in it.
<pre>// Ping apply Service "Ping" { check command = "ping4" assign where host.vardsess // check executed on master } // System Load apply Service "System Load" { check command = "load" command = "load" command = rload" command = rload* command = rload* c</pre>
check_command = "ssh" command_endpoint = host_vars.client_endpoint assign_where host.vars.client_endpoint // Icinga 2 Service # (
check_command = "iclings" command_endpoint = host.vars.client_endpoint assign where host.vars.client_endpoint }
Run the following command to verify the configuration.
You will get a similar output.
<pre>Too Time good billing of grant of</pre>
Restart the Icinga service to apply the configuration changes.
\$ sudo systemctl restart icinga2

Step 15 - Verify on the Icinga Dashboard

Open the Icinga2 Web Dashboard to verify the client machine information. Select **Overview >> Hosts** from the left menu, and you will see the following screen.



It might take some time for the client status to show as UP. Click the Client to see more details about it. Select Overview >> Services and you will see the following statuses about the client.



This confirms that the client is sending stats correctly to the Icinga master server.

Conclusion

This concludes our tutorial on installing Icinga Monitoring Software on a Debian 12 server and configuring it to monitor a client machine running the same Operating system. If you have any questions, post them in the comments below.