

Exercices Cacti



iRENALA

**Research and Education Network for Academic and Learning
Activities**

Le NREN Malgache

Installation

Pour lancer l'installation:

\$ sudo apt-get install cacti

Outil de configuration des paquets

Configuration de cacti

Le paquet cacti a besoin d'une base de données installée et configurée avant de pouvoir être utilisé. Si vous le souhaitez, dbconfig-common peut prendre cette opération en charge.

Si vous êtes un administrateur de bases de données expérimenté et si vous savez que vous voulez procéder à cette configuration vous-même, ou si votre base de données est déjà installée et configurée, vous pouvez refuser cette option. Des précisions sur la procédure se trouvent dans /usr/share/doc/cacti.

Autrement, vous devriez choisir cette option.

Faut-il configurer la base de données de cacti avec dbconfig-common ?

<Yes>

<No>



Installation

Mot de passe *admin* de la base de donnée MySQL: **atelier2014**

Outil de configuration des paquets

Configuration de cacti

Veillez indiquer le mot de passe pour le compte d'administration qui servira à créer la base de données MySQL ainsi que les utilisateurs.

Mot de passe de l'administrateur de la base de données :

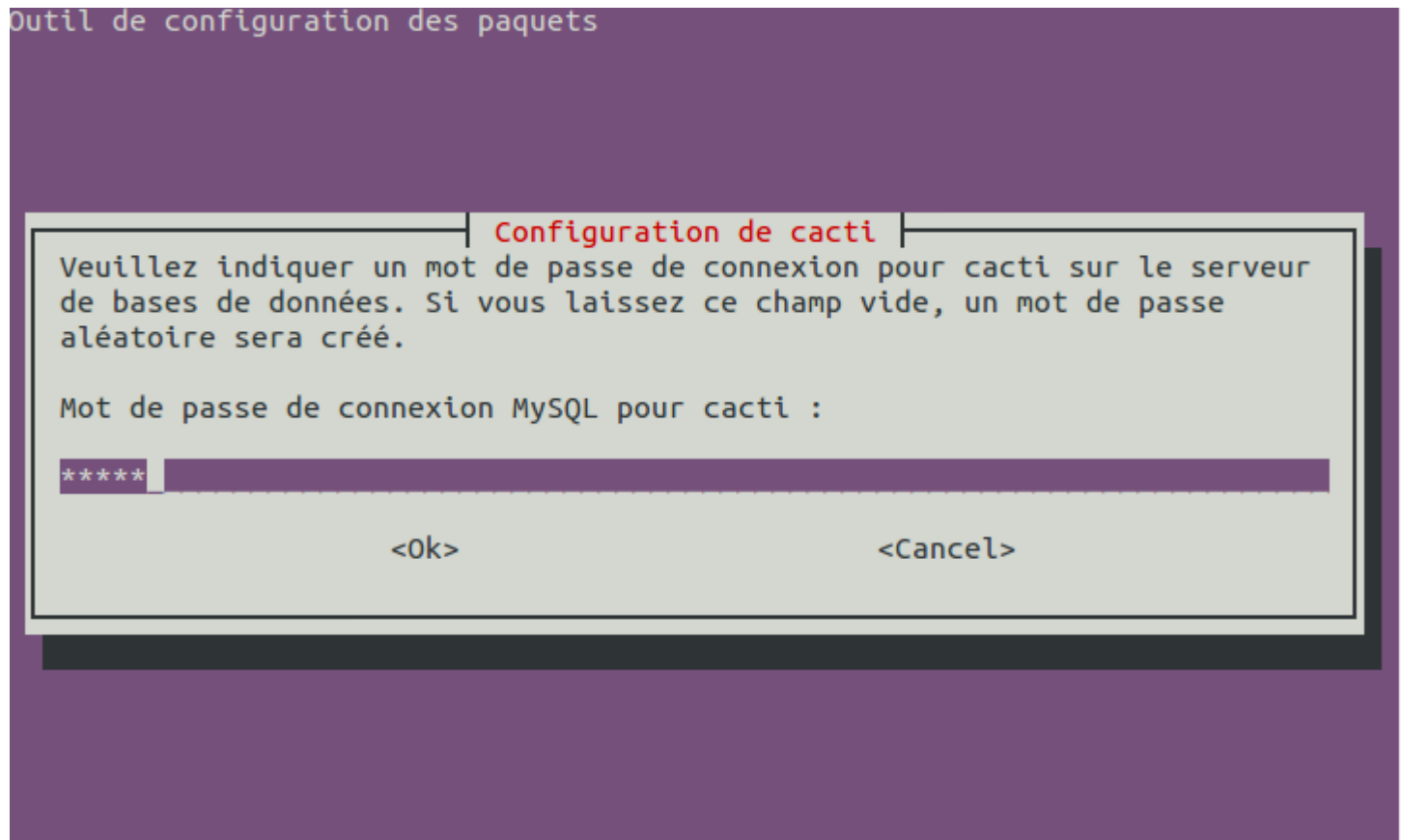
<Ok>

<Cancel>



Installation

Mot de passe de connexion MySQL de la base de donnée ***cacti*** puis confirmation:
atelier2014



Installation

outil de configuration des paquets

Configuration de cacti

Confirmation du mot de passe :

<Ok> <Cancel>



Installation

Choix du serveur web utilisé par cacti : **Apache2**

Outil de configuration des paquets

Configuration de cacti

Veillez choisir le serveur web à reconfigurer automatiquement pour l'utilisation de Cacti.

Choisissez « Aucun » si vous préférez configurer vous-même le serveur web.

Serveur web :

apache2
lighttpd
Aucun

<Ok>

<Cancel>



Installation

http://localhost/cacti

Cacti Installation Guide

Thanks for taking the time to download and install cacti, the complete graphing solution for your network. Before you can start making cool graphs, there are a few pieces of data that you need to know.

Be sure you have read and followed the required steps needed to install cacti before continuing. Install information can be found for [Unix](#) and [Win32](#)-based operating systems.

If this is an upgrade, be sure to reading the [Upgrade](#) information file.

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Next >>

Cacti Installation Guide

Please select the type of installation

New Install

The following information has been determined from Cacti's configuration file. If it is not correct, please edit 'include/config.php' before continuing.

Database User: cacti
Database Hostname: localhost
Database: cacti
Server Operating System Type: unix

Next >>



Installation

Installation Guide

Be sure all of these values are correct before continuing.

RRDTool Binary Path: The path to the rrdtool binary.

/bin/rrdtool

FILE FOUND]

PHP Binary Path: The path to your PHP binary file (may require a php.ini file to get this file).

/bin/php

FILE FOUND]

snmpwalk Binary Path: The path to your snmpwalk binary.

/bin/snmpwalk

FILE FOUND]

snmpget Binary Path: The path to your snmpget binary.

/bin/snmpget

FILE FOUND]

snmpbulkwalk Binary Path: The path to your snmpbulkwalk binary.

/bin/snmpbulkwalk

FILE FOUND]

snmpgetnext Binary Path: The path to your snmpgetnext binary.

/bin/snmpgetnext

FILE FOUND]

Cacti Log File Path: The path to your Cacti log file.

/log/cacti/cacti.log

FILE FOUND]

Utility Version: The type of SNMP you have installed. Required if you are using v2c or don't have embedded SNMP support in PHP.

[-SNMP 5.x]

RRDTool Utility Version: The version of RRDTool that you have installed.

[RRDTool 1.4.x]

Once you click "Finish", all of your settings will be saved and your database will be updated if this is an upgrade. You can change any of the settings on this screen at a later time by going to "Cacti Settings" from within Cacti.

Finish

User name: **admin**

Password: **admin**



User Login

enter your Cacti user name and password below:

name: admin

password:

login



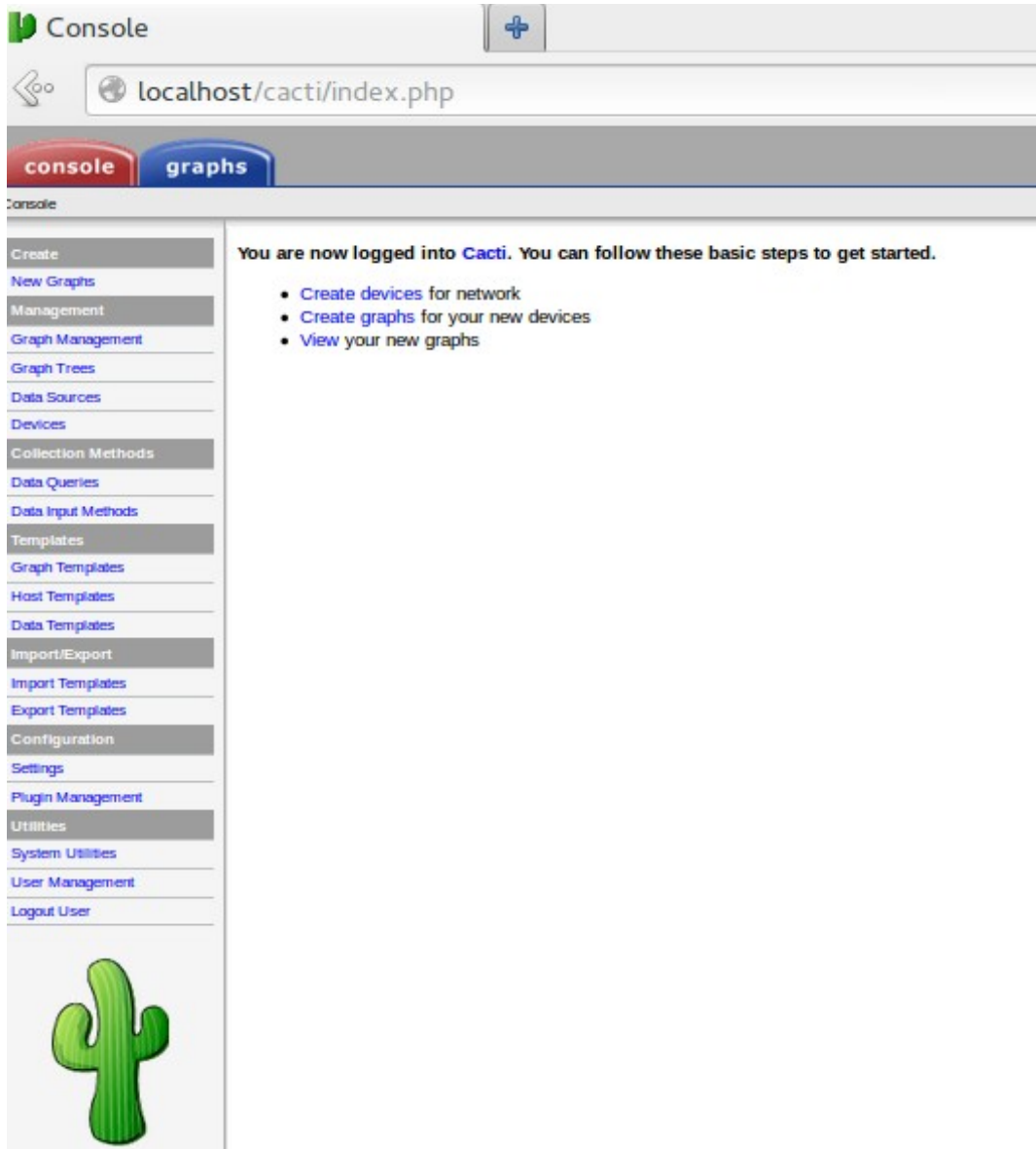
User Login

! Password Change ***

enter a new password for cacti:



Installation Terminée



The screenshot shows the Cacti web console interface. At the top, there is a browser window with the address bar showing "localhost/cacti/index.php". Below the address bar, there are two tabs: "console" (selected) and "graphs". The main content area is titled "Console" and contains a navigation menu on the left and a central message.

Navigation Menu:

- Create
- New Graphs
- Management
 - Graph Management
 - Graph Trees
 - Data Sources
- Devices
 - Collection Methods
 - Data Queries
 - Data Input Methods
- Templates
 - Graph Templates
 - Host Templates
 - Data Templates
- Import/Export
 - Import Templates
 - Export Templates
- Configuration
 - Settings
- Plugin Management
- Utilities
 - System Utilities
 - User Management
 - Logout User

Central Message:

You are now logged into **Cacti**. You can follow these basic steps to get started.

- [Create devices](#) for network
- [Create graphs](#) for your new devices
- [View your new graphs](#)

Footer: A green cactus icon is located at the bottom left of the console area.



Configuration d'un Agent snmp

```
# Listen for connections on all interfaces (both IPv4 *and* IPv6)
agentAddress udp:161,udp6:[::1]:161
# Configure Read-Only community and restrict who can connect
rocommunity Atelier <ADRESSE_IP>
rocommunity Atelier 127.0.0.1
# Information about this host
sysLocation Atelier iRENALA
sysContact sysadm@test.irenala.mg
# Which OSI layers are active in this host
# (Application + End-to-End layers)
sysServices 72
# Include proprietary dskTable MIB (in addition to hrStorageTable)
includeAllDisks 10%
```



Ajout d'un PC dans Cacti

console graphs

Console -> Devices -> (Edit)

Create

New Graphs

Management

Graph Management

Graph Trees

Data Sources

Devices

Collection Methods

Data Queries

Data Input Methods

Templates

Graph Templates

Host Templates

Data Templates

Import/Export

Import Templates

Export Templates

Configuration

Settings


Plugin Management

Utilities

System Utilities

User Management

Logout User



Devices [new]

General Host Options

Description
Give this host a meaningful description.

Hostname
Fully qualified hostname or IP address for this device.

Host Template
Choose the Host Template to use to define the default Graph Templates and Data Queries associated with this Host.
None

Number of Collection Threads
The number of concurrent threads to use for polling this device. This applies to the Spine poller only.
1 Thread (default)

Disable Host
Check this box to disable all checks for this host.
 Disable Host

Availability/Reachability Options

Downed Device Detection
The method Cacti will use to determine if a host is available for polling.
NOTE: It is recommended that, at a minimum, SNMP always be selected.
SNMP Uptime

Ping Timeout Value
The timeout value to use for host ICMP and UDP pinging. This host SNMP timeout value applies for SNMP pings.
400

Ping Retry Count
After an initial failure, the number of ping retries Cacti will attempt before failing.
1

SNMP Options

SNMP Version
Choose the SNMP version for this device.
Version 2

SNMP Community
SNMP read community for this device.
public

SNMP Port
Enter the UDP port number to use for SNMP (default is 161).
161

SNMP Timeout
The maximum number of milliseconds Cacti will wait for an SNMP response (does not work with php-snmp support).
500



Ajout des plugins

Pour ajouter des plugins: il faut télécharger le plugins puis copier/coller dans **`/usr/share/cacti/site/plugins`** ensuite il faut faire la configuration.

Téléchargement des plugins :

```
$wget http://www.network-weathermap.com/files/php-weathermap-0.97a.zip
```

```
$wget http://docs.cacti.net/_media/plugin:settings-v0.71-1.tgz
```

```
$wget http://docs.cacti.net/_media/plugin:thold-v0.5.0.tgz
```

Decompression :

```
$unzip php-weathermap-0.97a.zip
```

```
$tar xvzf settings-v0.71-1.tgz
```

```
$tar xvzf thold-v0.5.0.tgz
```

```
$ls -l
```

```
$sudo cp -R weathermap settings thold /usr/share/cacti/site/plugins
```



Ajout des plugins

Thold:

Pour envoyer des mails avec cacti, il faut installer postfix

```
$ sudo apt-get install postfix
```

Weathermap:

```
$ sudo vim /usr/share/cacti/site/plugins/weathermap/editor.php
```

```
//modifier $ENABLED=false -> $ENABLED=true
```

```
$ sudo chmod u+w /usr/share/cacti/site/plugins/weathermap/
```

```
$ sudo chown -R www-data /usr/share/cacti/site/plugins/weathermap/  
configs/
```

```
$ sudo apt-get install php5-gd
```

```
$ sudo /etc/init.d/apache2 restart
```



Ajout des plugins

console graphs thold weathermap




Console -> Plugin Management

Create
New Graphs
Management
Graph Management
Graph Trees
Data Sources
Devices
Weathermaps
Notification Lists
Thresholds
Collection Methods
Data Queries
Data Input Methods
Templates
Graph Templates
Host Templates
Data Templates
Threshold Templates
Import/Export
Import Templates
Export Templates
Configuration
Settings
Plugin Management

Plugin Management (Cacti Version: 0.8.8a, Plugin Architecture Version: 3.1)

Search: Rows: Default

Showing All 3 Rows

Actions	Name	Version	Load Order	Description**
 	Settings	0.71		Global Plugin Settings
	Weathermap	0.97b		PHP Network Weathermap
 	Thold	0.5		Thresholds

Showing All 3 Rows

NOTE: Please sort by 'Load Order' to change plugin load ordering.
NOTE: SYSTEM plugins can not be ordered.

