

PARTE III

Instalación y Configuración De Cacti

Ejercicios

Su misión...

- Instalar Cacti
- Crear un dispositivo para su enrutador
- Crear dispositivos para sus servidores de grupo
- Crear gráficos para cada elemento
- Organizar las PCs, Routers, Switches en una jerarquía de árbol (con su propio diseño).
- Agregar dispositivos adicionales usando los comandos

Utilice el diagrama de red de la clase como referencia.

Instalación: Ubuntu Server 12.04

En Ubuntu, Cacti 0.8.8a con el *Plugin Architecture* aún no es parte de la distribución principal. Se requieren unos pasos adicionales para instalar Cacti 0.8.8a:

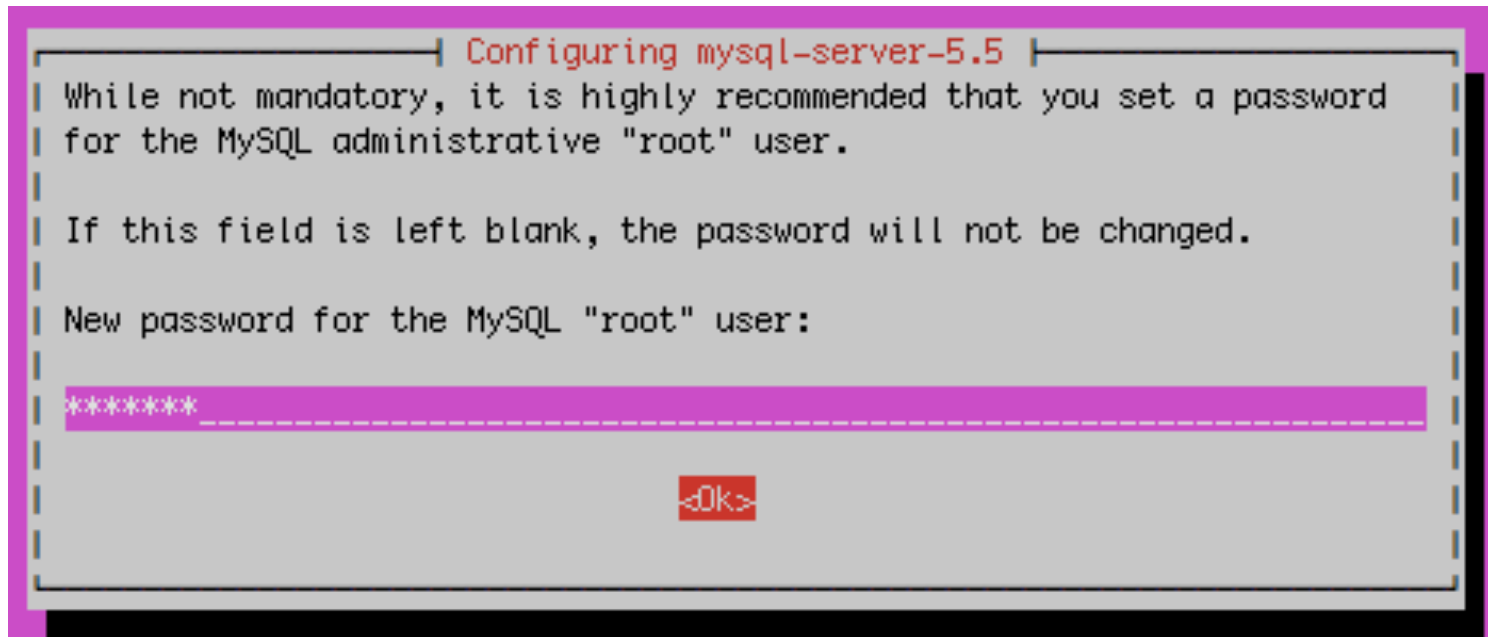
```
# apt-get install python-software-properties
After this operation, 22.0 MB of additional disk space will be used.
Do you want to continue [Y/n]? Y

# add-apt-repository ppa:micahg/ppa
You are about to add the following PPA to your system:
These are packages that I wanted backported to the current stable release.
More info: https://launchpad.net/~micahg/+archive/ppa
Press [ENTER] to continue or ctrl-c to cancel adding it
(Press <ENTER> at this point)

# apt-get update
# apt-get install cacti
0 upgraded, 62 newly installed, 0 to remove and 0 not upgraded.
Need to get 55.4 MB of archives.
After this operation, 175 MB of additional disk space will be used.
Do you want to continue [Y/n]? Y
```

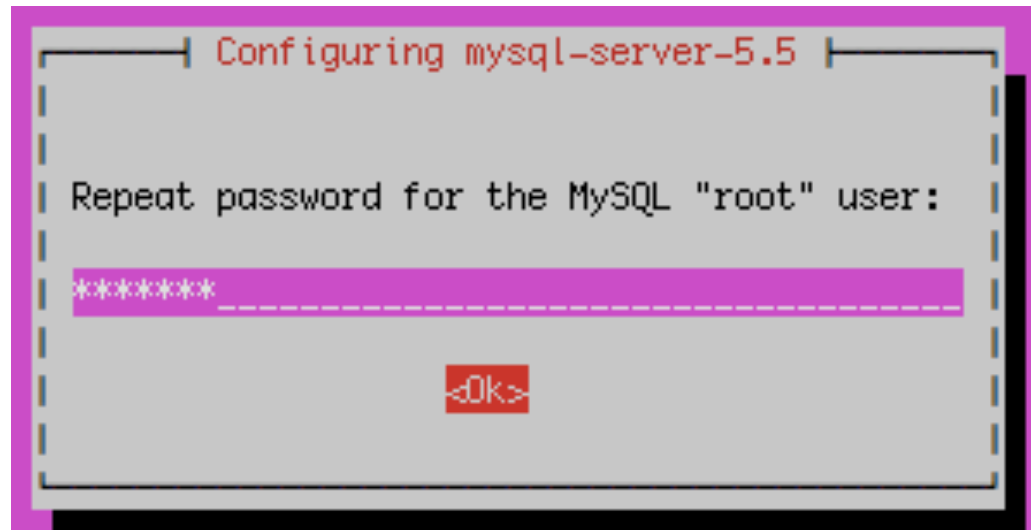
Instalación: 2

Es posible que ya hayamos hecho esto por usted. En ese caso, puede usar estos pasos como referencia. Salte a las instrucciones de instalación de la web de Cacti para continuar...



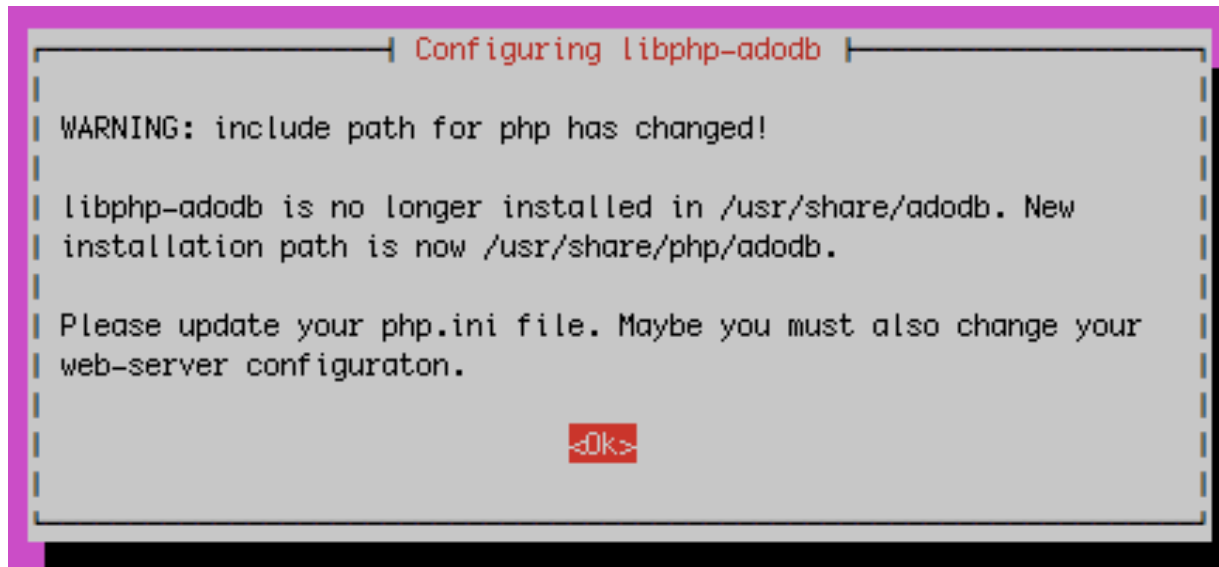
***Utilice la **clave de root** dada en clase.
Por favor NO use otra clave.***

Instalación: 3



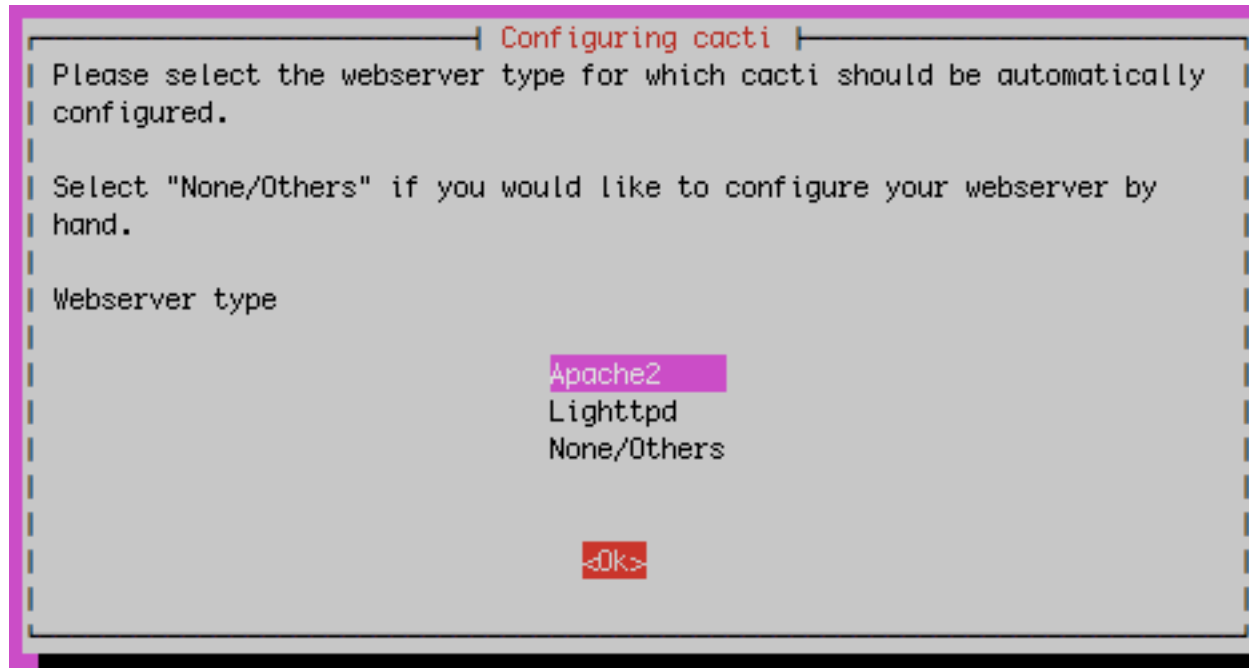
De nuevo, use la clave de root del taller

Instalación: 4



Mensaje informativo solamente. No hay problema. Oprima OK para continuar.

Instalación: 5



Usaremos Apache2. Asegúrese de elegir esta opción
Luego vaya a <Ok> y oprima <ENTER> para continuar.

Instalación: 6

```
Configuring cacti

The cacti package must have a database installed and configured before
it can be used. This can be optionally handled with dbconfig-common.

If you are an advanced database administrator and know that you want to
perform this configuration manually, or if your database has already
been installed and configured, you should refuse this option. Details
on what needs to be done should most likely be provided in
/usr/share/doc/cacti.

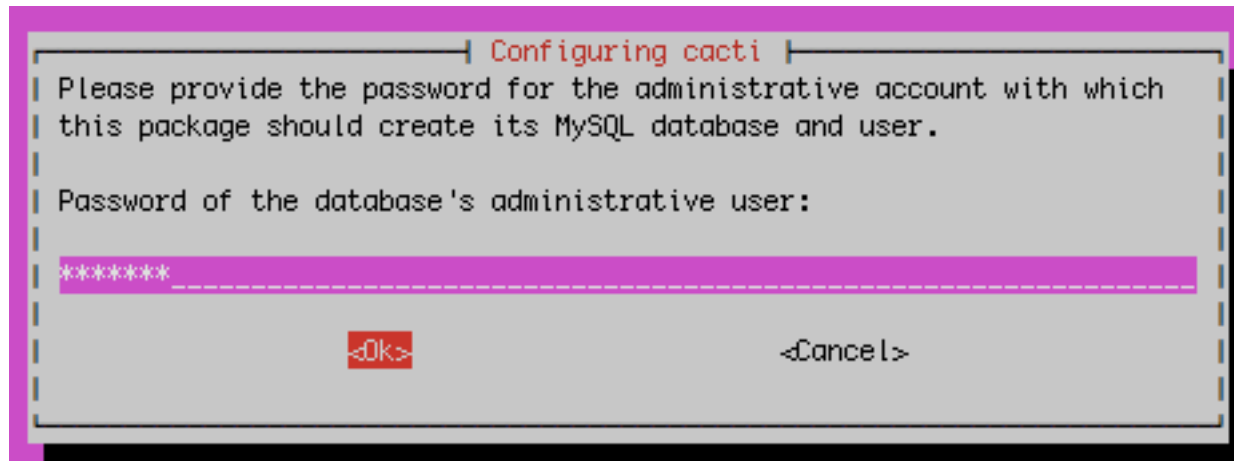
Otherwise, you should probably choose this option.

Configure database for cacti with dbconfig-common?

<Yes>                                <No>
```

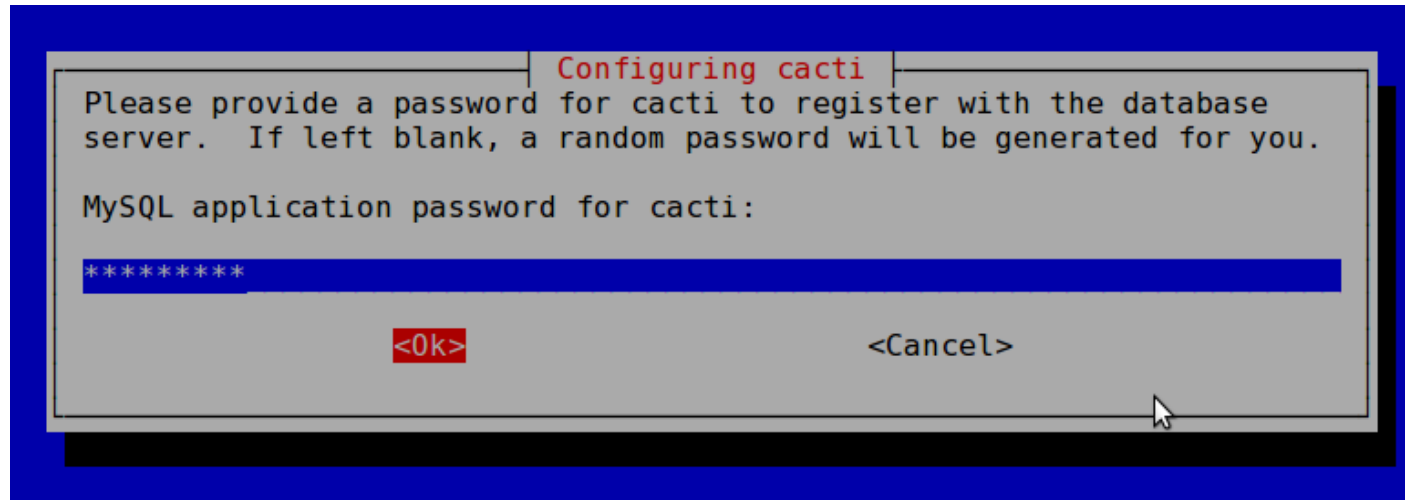
Elija <Yes> y oprima <ENTER> para continuar.

Instalación: 7



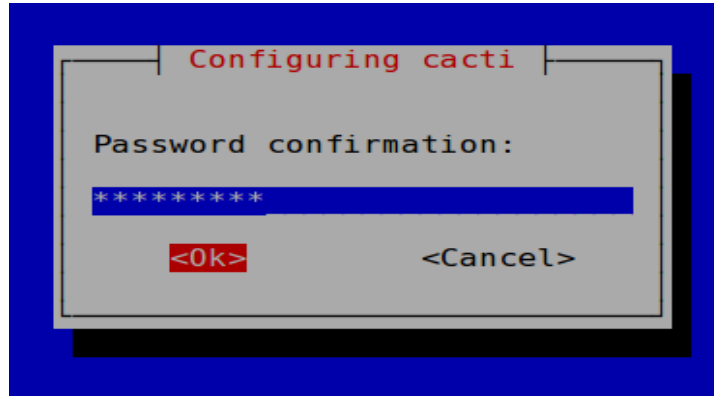
Utilice la **clave de root** que usó antes.

Instalación: 8



Use cualquier password aquí.
Esta **no** es la clave de root del taller.

Instalación: 9



Repita la clave que usó en la pantalla anterior

Cacti: Instalación - Web

Ahora, use un navegador para abrir la siguiente dirección:

<http://pcN.ws.nsrc.org/cacti>

Verá lo siguiente...

Cacti: Instalación- Web

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 cacti needs to know.

Make 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.

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

Cacti is licensed under the GNU General Public License, you must agree to its provisions before continuing:

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`This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.`

Next >>

Oprima “Next >>”

Cacti: Instalación- Web

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:
Database: cacti
Server Operating System Type: unix

Next >>

Elija "New Install" y oprima "Next >>" de nuevo.

Cacti: Instalación- Web

Cacti Installation Guide

Make sure all of these values are correct before continuing.

[FOUND] RRDTool Binary Path: The path to the rrdtool binary.

[OK: FILE FOUND]

[FOUND] PHP Binary Path: The path to your PHP binary file (may require a php recompile to get this file).

[OK: FILE FOUND]

[FOUND] snmpwalk Binary Path: The path to your snmpwalk binary.

[OK: FILE FOUND]

[FOUND] snmpget Binary Path: The path to your snmpget binary.

[OK: FILE FOUND]

[FOUND] snmpbulkwalk Binary Path: The path to your snmpbulkwalk binary.

[OK: FILE FOUND]

[FOUND] snmpgetnext Binary Path: The path to your snmpgetnext binary.

[OK: FILE FOUND]

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

[OK: FILE FOUND]

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

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

NOTE: Once you click "Finish", all of your settings will be saved and your database will be upgraded 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

Su pantalla debería mostrar esto. Si no, pida asistencia al instructor

Oprima "Finish"

Cacti: Ingresar por primera vez



User Login

Please enter your Cacti user name and password below:

User Name:

Password:

Login

La primera vez use:

User Name: *admin*

Password: *admin*

Cacti: Cambiar el password



User Login

*** Forced Password Change ***

Please enter a new password for cacti:

Password:

Confirm:

Save

Ahora debe cambiar el password de *admin*.

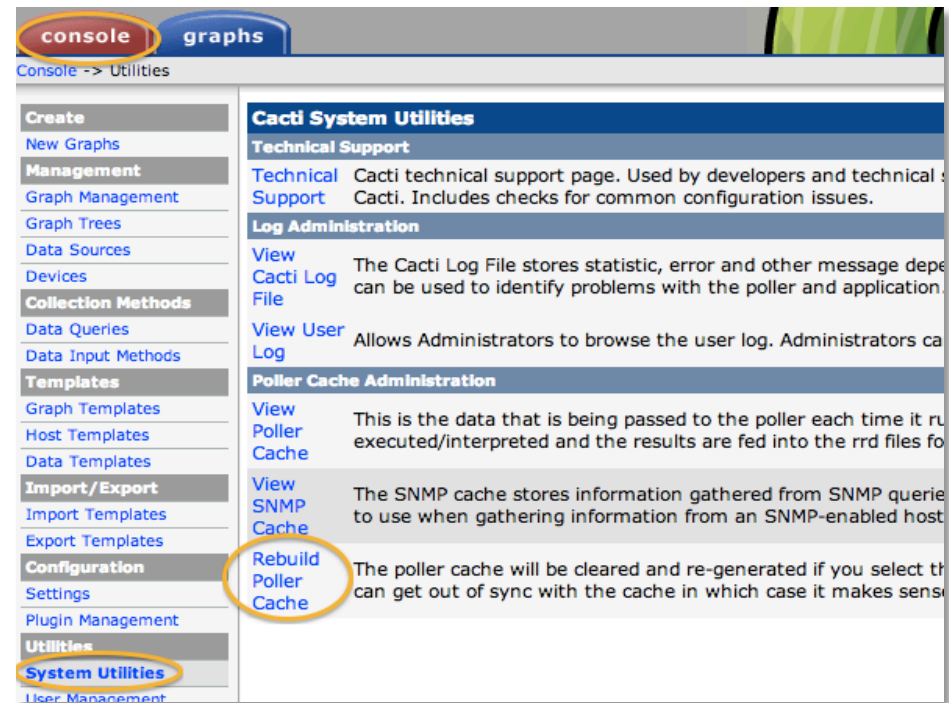
Por favor ***use el password del taller*** dado en clase.

Cacti: Arreglar los gráficos de Localhost

Hay una pequeña falla en la versión 0.8.8a. Para comenzar a generar los gráficos de Localhost (pre-definidos en la instalación) haga lo siguiente:

1. Al ingresar, oprima la pestaña "console"
2. Oprima "System Utilities" en la esquina inferior izquierda.
3. Oprima "Rebuild Poller Cache"

Ya está. Ahora si oprime la pestaña "graphs" verá los gráficos de Localhost dentro de 5 minutos



Cacti: Ultimos Pasos Instalación

En la linea de comando tiene que hacer algunos comandos mas para limpiar nuestros repositories de software y reparar un bicho chico ("bug" o error) en el paquete de Cacti 0.8.8a:

```
# add-apt-repository -r ppa:micahg/ppa
You are about to remove the following PPA from your system:
  These are packages that I wanted backported to the current stable release.
  More info: https://launchpad.net/~micahg/+archive/ppa
  Press [ENTER] to continue or ctrl-c to cancel removing it
  (Apreta <ENTER> en este instante)
```

Luego necesita crear algunos enlaces logicos para apoyar la arquitectura de Plugin de Cacti en forma correcta:

```
# ln -s /usr/share/cacti/site/include /usr/local/share/cacti/include
# ln -s /usr/share/cacti/site/lib /usr/local/share/cacti/lib
```

Ahora termino con la instalacion de Cacti version 0.8.8a

Configurando cacti

- Crea entrada del dispositivo por su router local
- Crea entrada del dispositivo por sus servidores locales
- Crea entrada del dispositivo por el router de su sala
- Crea entrada de dispositivo por el switch de su sala
- Crea graficos por cada dispositivo
- Ponga PCs, Routers, Switches en una jerarquía del arbol de su propio diseño.
- Agrega tantos dispositivos de otros grupos que quiere
- (**Optional:** agrega dispositivos adicionales usando scripts de comandos de la linea)
- Use el diagrama de la Red en el wiki del curso como referencia.

PARTE IV

Ejercicios adicionales

Disponibles en la agenda del taller.