

THE BEGINNING

00:00

## Exercises

# Cacti Installation and Configuration

# Exercises

## Your Mission...

- Install Cacti
- Create device entry for your local router
- Create device entries for your local servers
- Create entries for class router and switch
- Create graphs for each item
- Place PCs, Routers, Switches in a tree hierarchy of your design.

# Installation: Ubuntu Server 14.04

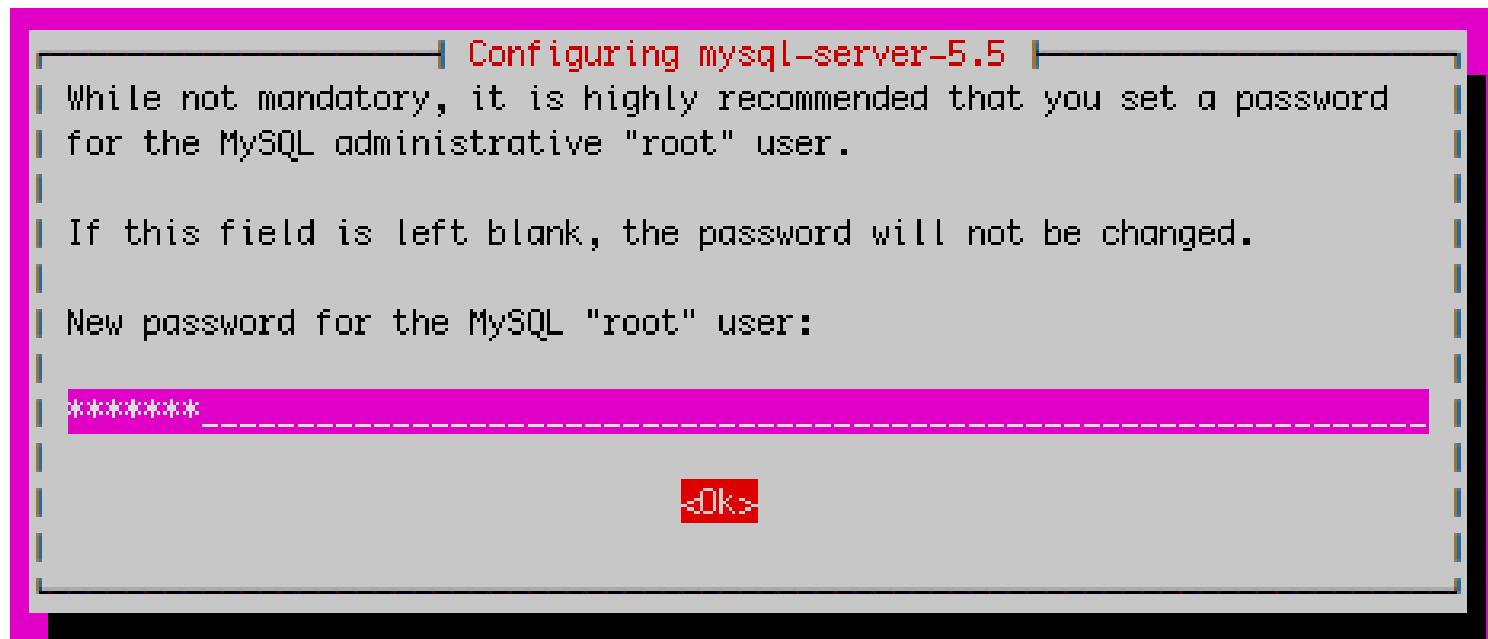
In Ubuntu 14.04, Cacti is at version 0.8.8b, which includes the Cacti Plugin architecture, which is very useful:

```
# apt-get update
# apt-get install cacti cacti-spine
[...]  
0 upgraded, 19 newly installed, 0 to remove and 6 not upgraded.  
Need to get 11.3 MB of archives.  
After this operation, 99.5 MB of additional disk space will be used.  
Do you want to continue [Y/n]? Y
```

# Installation: Ubuntu Server 14.04

# Installation: 2

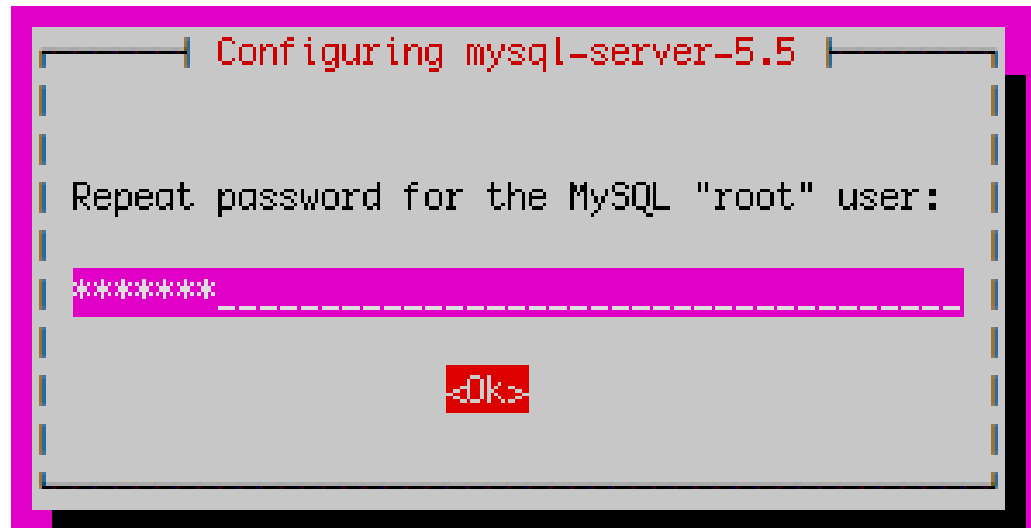
We may have already done this for you. If so, you can use these slides for informational purposes. Skip to the Cacti Web installation steps to continue... If NOT proceed accordingly..



***Use the workshop **root password** (bmo15) given in class.***

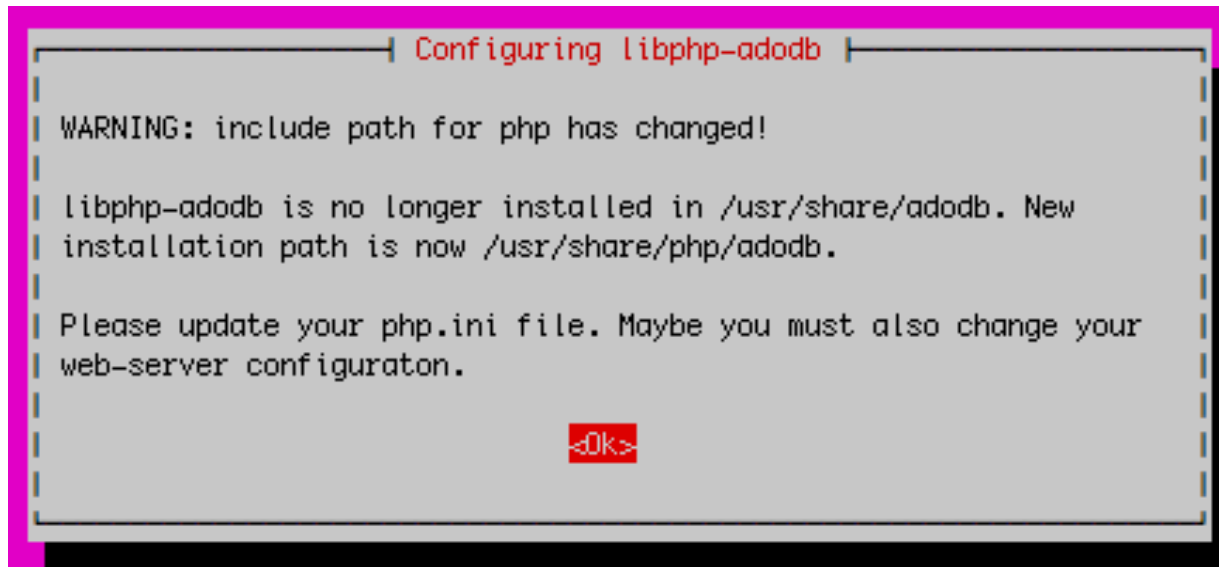
***Please do not use a different password.***

# Installation: 3



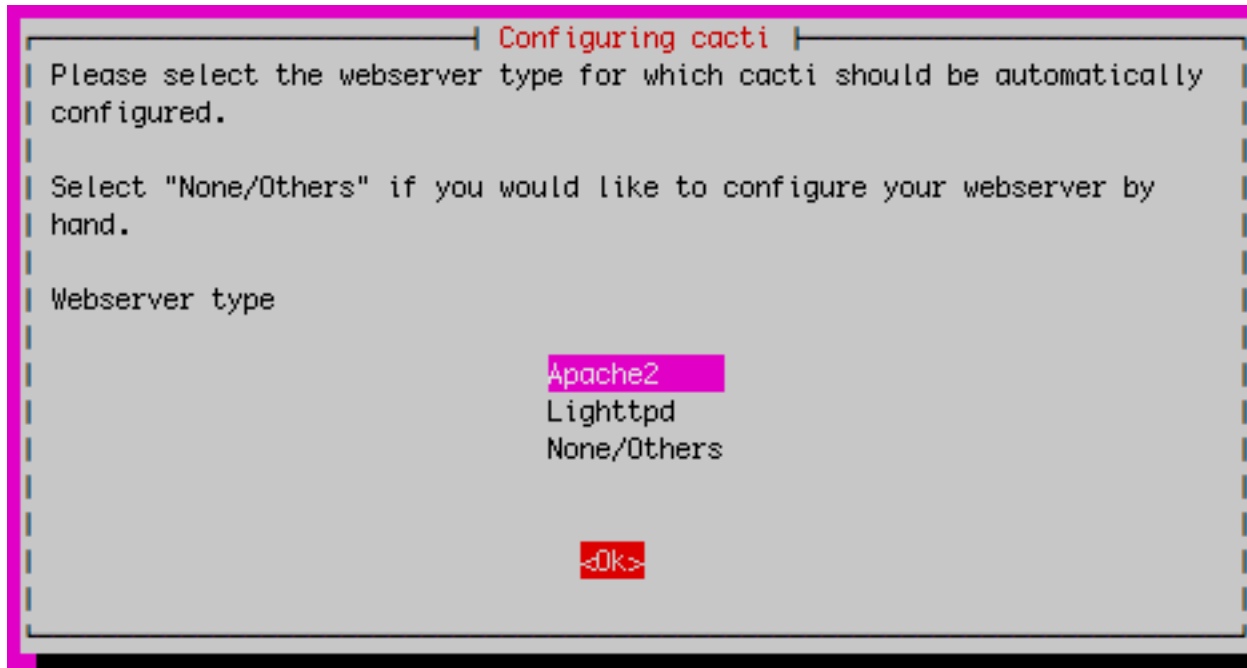
Again, use the workshop root password

# Installation: 4



Informational message only. Not an issue. Press OK to continue.

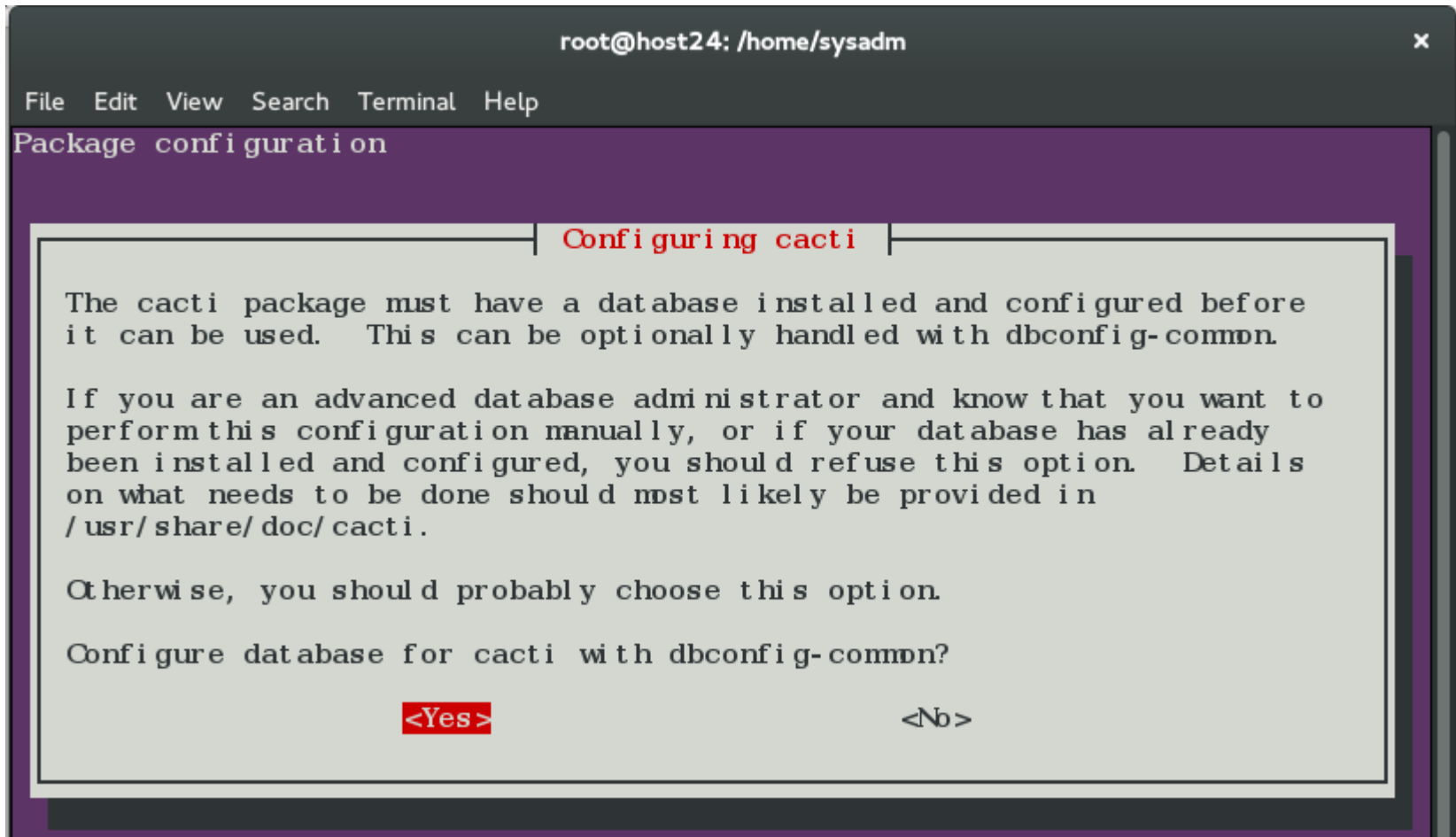
# Installation: 5



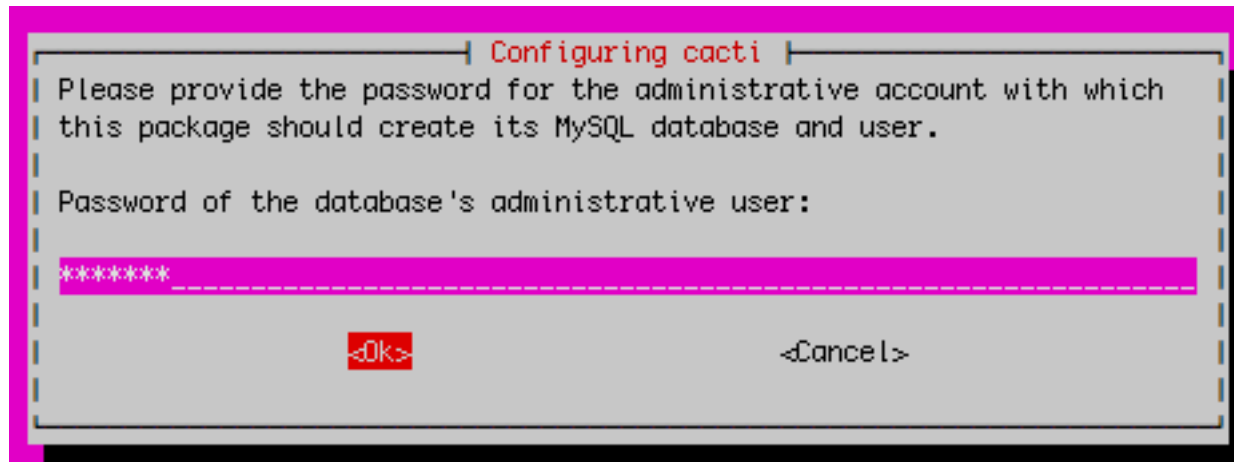
**We are using Apache2. Be sure this is chosen**  
then highlight <OK> and press <ENTER> to continue.



# Installation: 6

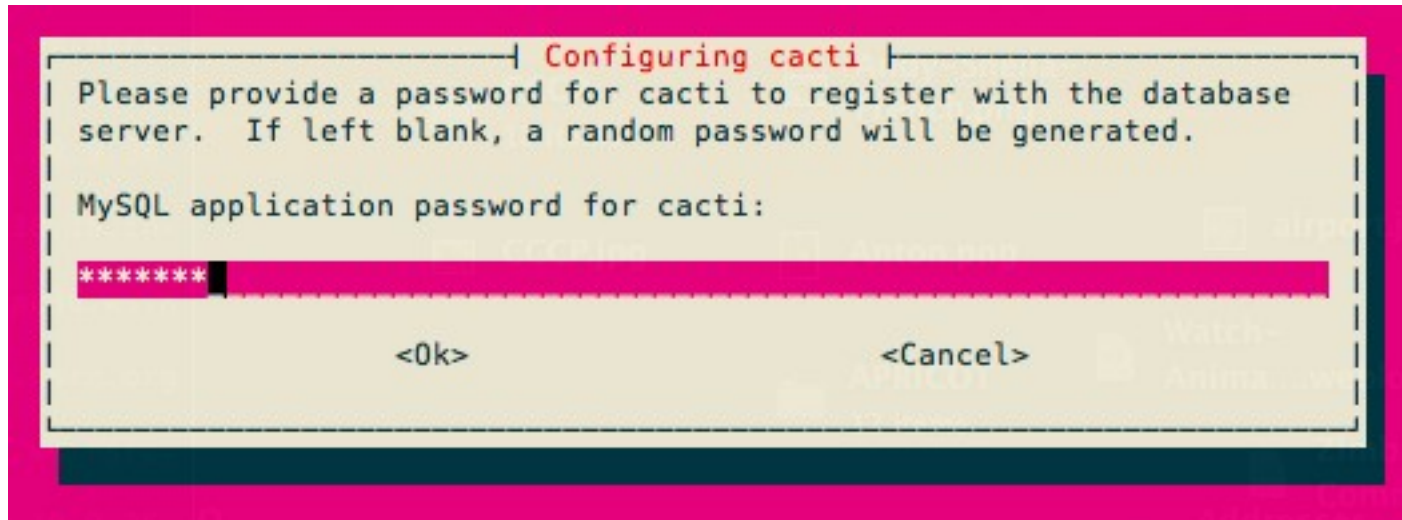


# Installation: 7



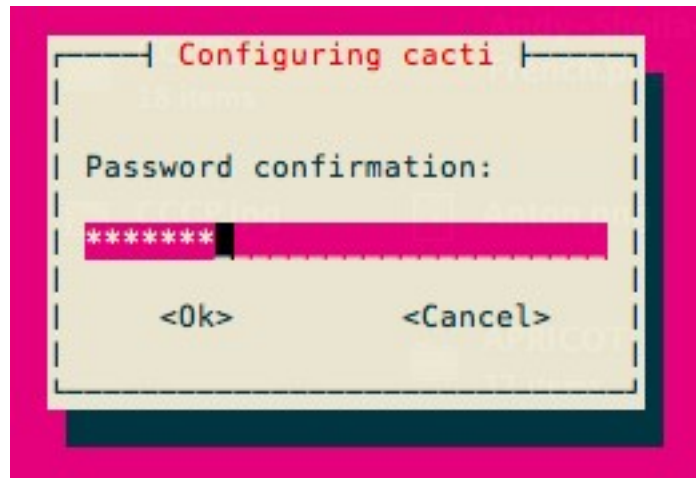
Use the workshop **root password** you provided earlier.

# Installation: 8



Use any password you wish and remember it!!  
This is ***not*** the workshop root password.

# Installation: 9



Repeat the password you just entered in the previous screen.

# Cacti: Installation - Web

**Now use a web browser and open the following address:**

`http://hostx.ws.nsrc.org/cacti`

**You will see the following...**

# Cacti: Installation - 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 >>

Press “Next >>”

# Cacti: Installation - 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 >>

Choose “New Install” and press “Next >>” again.

# Cacti: Installation - 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**

Your screen should look like this. If it does not ask your instructor for help.

Press "Finish"



# Cacti: First Time Login



## User Login

Please enter your Cacti user name and password below:

User Name:

Password:

Login

First time login use:

User Name: *admin*

Password: *admin*

# Cacti: Change Default Password



## User Login

\*\*\* Forced Password Change \*\*\*

Please enter a new password for cacti:

Password:

Confirm:

Save

Now you must change the *admin* password.

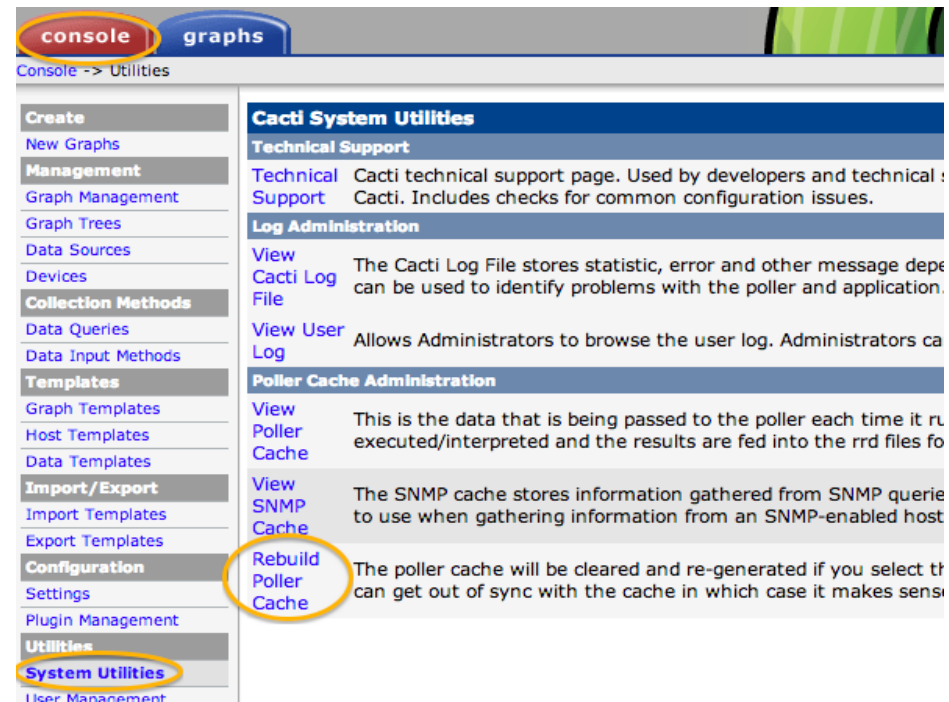
Please ***use the workshop password*** provided in class.

# Cacti: Fix localhost Graphs - 12.04

There is a minor bug with Cacti version 0.8.8a (only on 12.04) . In order to start generating the default graphs for the Localhost entry (preconfigured at install) you need to do the following:

1. After logging in click on the "console" tab.
2. Click on "System Utilities" bottom left of the screen.
3. Click on "Rebuild Poller Cache"

That's it. Now if you click on the "graphs" tab you will see graphs for your localhost appear within 5 minutes.



# Configuring cacti

To monitor any devices, you must install SNMP.

# Configuring cacti

- Create device entry for your virtual hosts i.e host 1 ..host N.
- Create device entry for your classroom router
- Create graphs for each item
- Place PCs, Routers, Switches in a tree hierarchy of your design.
- Add as many devices from other groups as you wish.
- (**Optional**: add additional devices using the command line scripts.)

Have Fun !!

**THE END**

