TSM Statistical Monitor

Administrator's Guide

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1 Installation

This section details how to install the Statmon software package. Installing Statmon requires several steps: installing prerequisite software, installing statmon itself and finally configuring statmon. In short Statmon is directly dependant on the following software packages:

- Python 2.2 - 2.4

- mod_python 3.3.x

- mysql-python-1.2.x (Python module)

- py-rrdtool-1.0 (Python module)

- TSM backup client version 5.3.x.x

The following sections describe this process in detail.

1.1 Prerequisites

Statmon relies upon a number of software packages distributed by third parties. Depending on the features you intend to use, you may have to download and install a number of additional software pacakges. This section details commonly needed third party software pacakges you might have to install.

1.1.1 TSM backup client

Statmon is designed to use the *dsmadmc* backup client to process information from the TSM server. You should have this package installed on the machine that is going to run the Collector.

1.1.2 A capable web browser

Statmon web front-end requires a web browser that is capable of handling XHTML, JavaScript and CSS. This includes most browser available today – Internet Explorer 5 or later, all Mozilla/Firefox versions, Konqueror, Safari and several others. The old Netscape 4.x browsers are known NOT to work.

1.1.3 A Web server

Statmon is designed with a web-based front-end. So you should have a webserver such as Apache running on the server where you install Statmon.

1.1.4   Python and mod_python

Statmon is written in python and works for python versions 2.2-2.4. The web front-end uses mod_python version 3.2.

1.1.5   Mysql Database

In order for Statmon to work properly, you will need to set up a MySQL Database prior to the beginning the Statmon install process. Before running statmon you will have to configure it with the following information:

- The name of your MySQL database

- The name or IP address of the MySQL host

- A MySQL username

- A MySQL password

You should ask your web server provider if you are unsure about how to go about installing a MySQL database, and what the above details relate to, before beginning the installation.

1.2   RRDTool

RRDtool is a round-robin database tool designed to handle time-series data like network bandwidth, temperatures, CPU load etc. The data is stored in round-robin database so that system storage footprint remains constant over the time.

Statmon uses RRDTool to store information about TSM server and display it graphically as a graph.

1.2.1   Python modules

Statmon requires the python modules py-rrdtool and mysql-python to be installed in order to work.

1.3   Installing Statmon

When installing Mambo for the first time, verify the system requirements previously stated above first!

The first step is to unpack the contents of the statmon package in a directory accessable by apache:

```
cd /var/www/localhost/htdocs/
tar -zxvf stamon-1.0.tar.gz
```

1.4   Configuring Apache

First of all, make sure that Apache is started with the mod_python module active. This should be default on most installations. In short make sure apache is started with the -D PYTHON directive. You can check this by doing:

```
 ps ax | grep apache
```

and look for "-D PYTHON". For more information on apache configuration. See Apache documentation.

1.5   Configuring MySQL

Then you need to install the statmon database on to your MySQL server:

```
shell> mysqladmin --user=root -p create statmon
shell> mysql --user=root -p statmon < statmon.sql
shell> mysql --user=root -p statmon
mysql> GRANT ALL ON statmon.* TO statmon@localhost IDENTIFIED BY 'somepassword';
mysql> flush privileges;
```

1.6   Edit config.py

```
tsm_username = "palli" # The username used to connect to tsm
tsm_password = "palli" # The password used to connect to tsm

local_username = "statmon" # The username of the local database
local_password = "statmon" # The password for the local database
local_db = "statmon" # Name of the database
local_host = "statmon.basis.is" # The hostname for the local database
```