

Tracking graphically MySQL, Apache and Network performance in web with Munin on Debian Linux

Author : admin



Munin is great software for *surveillance software* for your MySQL, Apache, Qmail, Postfix and many other of the classical daemon services which most of the Linux, BSD servers online are running on.

1. *Munin* on Debian Linux is really easy to be installed and comes to executing:

```
debian:~# apt-get install munin munin-node munin-plugins-extra
```

2. Link `/var/www/munin/` to some VirtualHost or ServerHost

For instance if your munin is to be placed on the domain *pc-freak.net.net* which has the DocumentRoot of `/var/www`

```
debian:~# cd /var/www
debian:/var/www# ln -sf /var/www/munin munin
```

3. Add some extra MySQL related plugins

To check whole list of pmunin plugins you can enable check in `/etc/munin/plugins` directory

Lets say our Munin will be providing statistics mainly for MySQL, enable this bunch of plugins:

```
cd /etc/munin/plugins
ln -s /usr/share/munin/plugins/mysql_ mysql_
ln -s /usr/share/munin/plugins/mysql_bytes mysql_bytes
ln -s /usr/share/munin/plugins/mysql_innodb mysql_innodb
ln -s /usr/share/munin/plugins/mysql_isam_space_ mysql_isam_space_
ln -s /usr/share/munin/plugins/mysql_queries mysql_queries
ln -s /usr/share/munin/plugins/mysql_slowqueries mysql_slowqueries
ln -s /usr/share/munin/plugins/mysql_threads mysql_threads
```

Though above command would enable mysql monitoring it will be not working out of the box. You will find in munin logs error like:

Missing dependency Cache::Cache at /usr/share/munin/plugins/mysql_ line 716."

To fix this install **libcache-perl** and **libcache-cache-perl**

apt-get install --yes libcache-perl libcache-cache-perl

Then regenerate munin plugin configuration issue cmd:

munin-node-configure --suggest --shell | sh

and **restart Munin-node server**

service munin-node restart

Munin Node should be able login to the MySQL server using the Debian System Maintenance user however if you should need to create a custom user you can add the following configuration to:

/etc/munin/plugin-conf.d/munin-node

```
[mysql*]  
user root  
env.mysqluser muninmonitor  
env.mysqlpassword Your-Secret-Password
```

4. Edit Munin config

Make sure you have at least the following variables enabled in **/etc/munin/munin.conf**

```
dbdir /var/lib/munin  
htmldir /var/cache/munin/www  
logdir /var/log/munin  
rundir /var/run/munin
```

```
tmpldir /etc/munin/templates
```

```
includedir /etc/munin/munin-conf.d
```

```
[localhost.localdomain]
```

```
address 127.0.0.1
```

```
use_node_name yes
```

5. Add Munin Alias or Virtualhost

To make Munin Accessible from Webserver you need to at least add an alias create a file **/etc/apache2/conf.d/munin** with following content:

```
vim /etc/apache2/conf.d/munin
```

```
Alias /munin /var/cache/munin/www
```

```
Order allow,deny
```

```
#Allow from localhost 127.0.0.0/8 ::1
```

```
Allow from all
```

```
Options None
```

```
php_value engine off
```

```
ExpiresActive On
```

```
ExpiresDefault M310
```

If you want to access Munin from Apache subdomain create it lets say you want to access it via **stats.pc-freak.net**, use following config file:

```
vi /etc/apache2/sites-enabled/stats.pc-freak.net
```

```
ServerAdmin hipo@pc-freak.net
ServerName stats.pc-freak.net
DocumentRoot /var/cache/munin/www
```

```
Options FollowSymLinks
#AllowOverride All
php_value engine off
```

```
LogLevel debug
CustomLog /var/log/apache2/munin/access.log combined
ErrorLog /var/log/apache2/munin/error.log
ServerSignature On
```

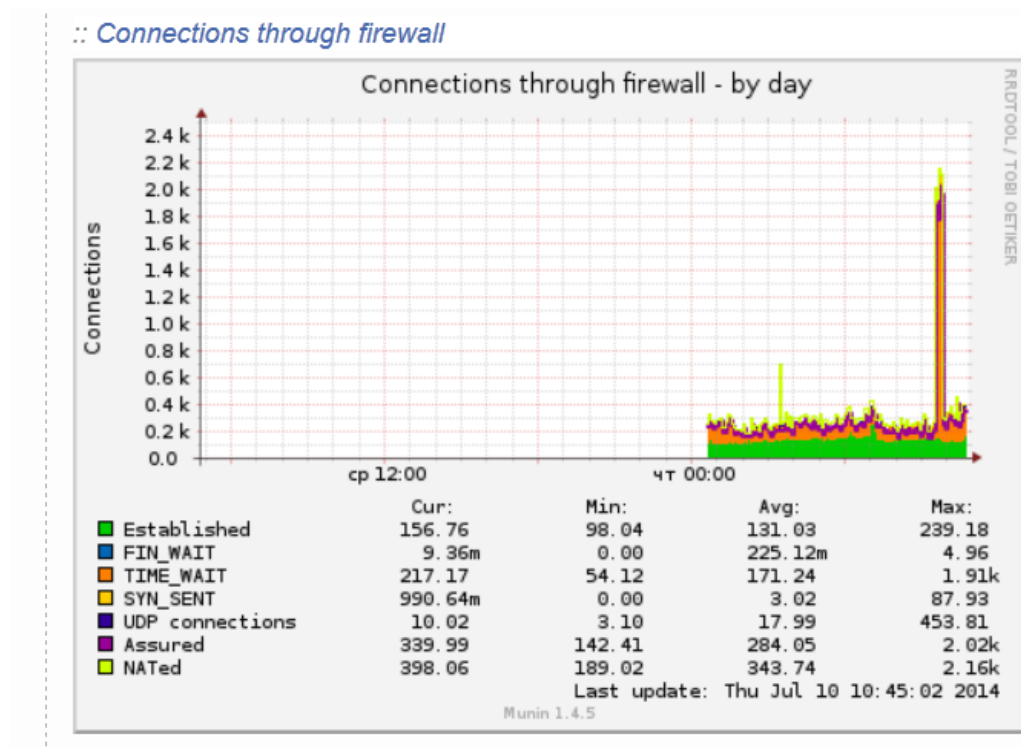
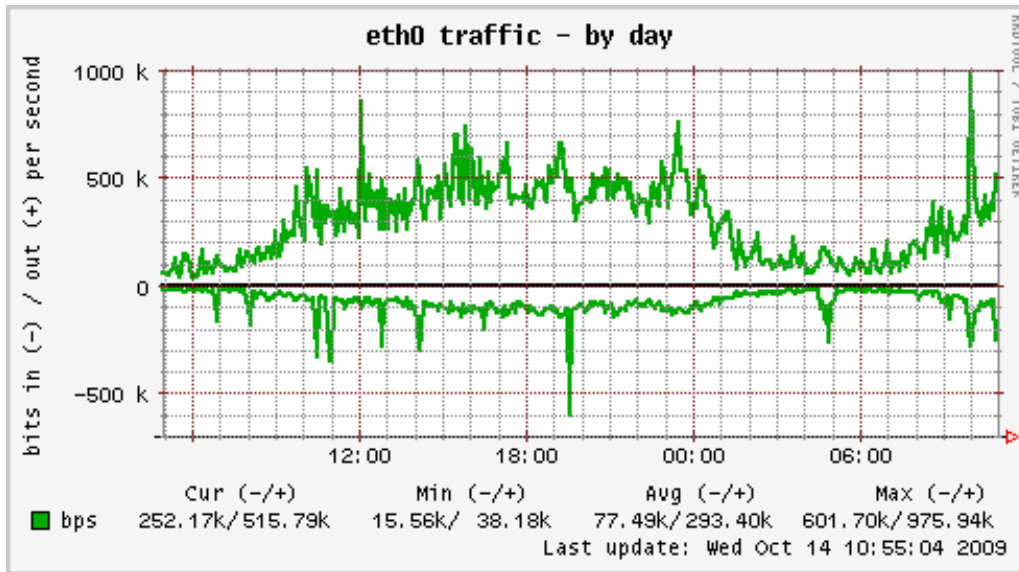
```
Order allow,deny
#Allow from localhost 127.0.0.0/8 ::1
Allow from all
Options FollowSymLinks
#AllowOverride All
php_value engine off
```

6. Restart Apache;

```
debian:~# /etc/init.d/apache2 restart
```

Now to access the newly installed munin point your favorite browser to (either the subdirectory configured for access or the Virtualhost subdomain):

```
http://www.pc-freak.net/munin/
or
http://munin.pc-freak.net
```



7. Protecting Munin with a password

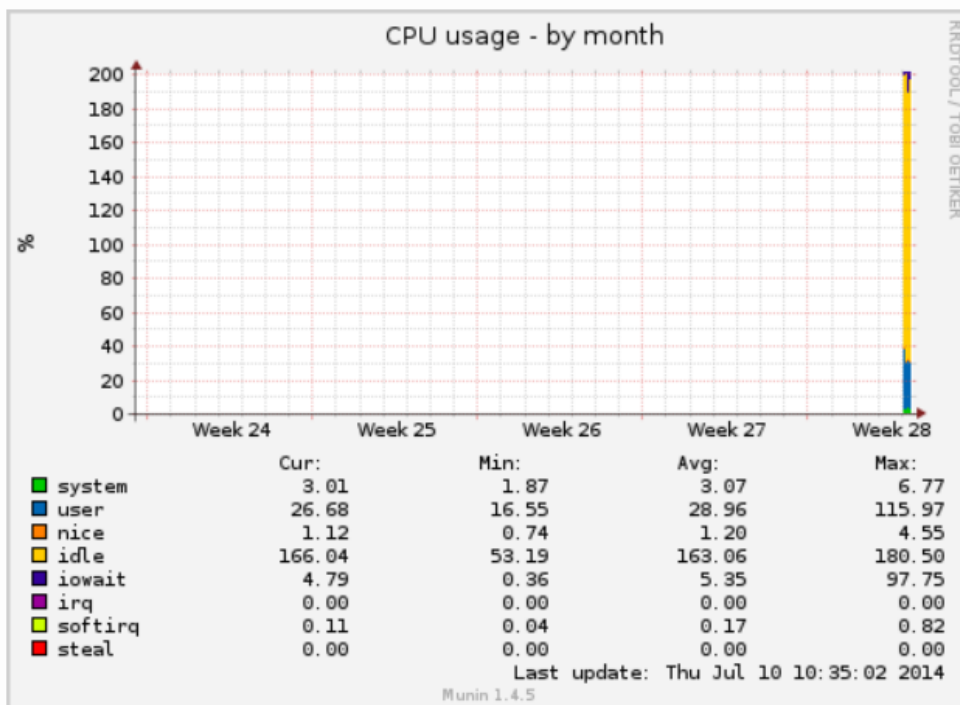
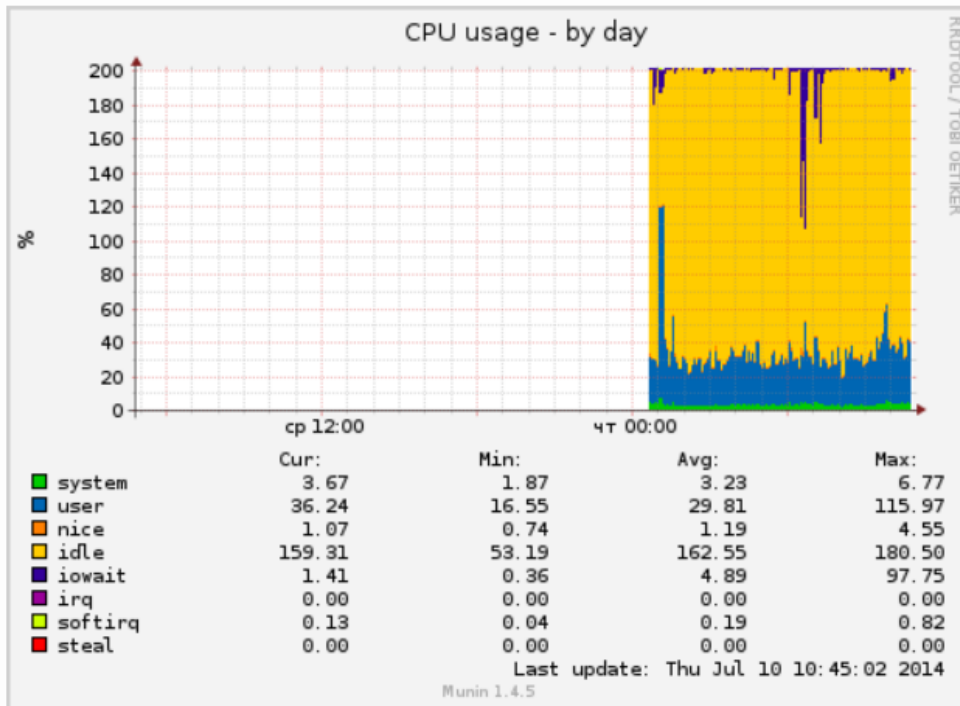
As it could be a security leak to expose statistics regarding your server (**Disk I/O, Memory, Load Average, Apache, MySQL Postfix**) operations it is good security practice to protect munin with a password.

I've earlier blogged on [how to protect your server munin web-statistics with an htaccess password](#) (read

[it here\)](#)



Overview :: localdomain :: localhost.localdomain :: c



Happy Monitoring