

Walking in Light with Christ - Faith, Computing, Diary Articles & tips and tricks on GNU/Linux, FreeBSD, Windows, mobile phone articles, religious related texts

Monitoring Disk use, CPU Load, Memory use and Network in one console neurses interface - Glance

http://www.pc-freak.net/blog

Author: admin



If you're **Linux / UNIX / BSD system administrator** you already have experience with basic admin's system monitoring:

- CPU load
- OS Name/Kernel version
- System load avarage and Uptime
- Disk and Network Input/Output I/O operations by interface
- Process statistics / Top loading processes etc.
- Memory / SWAP usage and free memory
- Mounted partitions

Such info is provided by command line tools such as:

top, df, free, sensors, ifconfig, iotop, hddtemp, mount, nfsstat, nfsiostat, dstat, uptime, nethogs iptraf

etc.

There are plenty of others advanced tools also **Web based server monitoring visualization tools**, such as Monit, <u>Icanga</u>, <u>PHPSysInfo</u>, <u>Cacti</u> which provide you **statistics on computer hardware and network utilization**

So far so good, if you already are used to convenience of web *NIX based monitoring but you don't want to put load on the servers with such and you're lazy to write custom scripts that show most important monitoring information - necessery for **daily system administration monitoring and prevention from downtimes and tracking bottlenecks** you will be glad to hear about **Glance**s

1/6



Walking in Light with Christ - Faith, Computing, Diary

Articles & tips and tricks on GNU/Linux, FreeBSD, Windows, mobile phone articles, religious related texts http://www.pc-freak.net/blog

Glances is a free (LGPL) cross-platform curses-based monitoring tool which aims to present a maximum of information in a minimum of space, ideally to fit in a classical 80x24 terminal or higher to have additionnal information. Glances can adapt dynamically the displayed information depending on the terminal size. It can also work in a client/server mode for remote monitoring.

1. Installing Glances curses-based monitoring tool on Debian 7 / Ubuntu 13+ / Mint Linux
We have to install python-pip (python package installer tool) to later install Glances
apt-get installyes 'python-dev' 'python-jinja2' 'python-psutil' 'python-setuptools' 'hddtemp' 'python-pip' 'lm-sensors'
Before proceeding to install Glances to make Thermal sensors working (if supported by hardware) run:
sensors-detect
Glances is written in Python and uses psutil library to obtain monitoring statistic values, thus it is necessery to install few more Python libraries:
pip install 'batinfo' 'pysensors'

If you're about to use **pip** - Python package installer tool, behind a proxy server use instead:



Walking in Light with Christ - Faith, Computing, Diary Articles & tips and tricks on GNU/Linux, FreeBSD, Windows, mobile phone articles, religious related texts http://www.pc-freak.net/blog

pip install --proxy=http://your-proxy-host.com:8080 'batinfo' 'pysensors'

Then install Glances script itself again using pip
pip install 'Glances'
Downloading/unpacking Glances
Downloading Glances-2.0.1.tar.gz (3.3Mb): 3.3Mb downloaded Running setup.py egg_info for package Glances
Downloading/unpacking psutil>=2.0.0 (from Glances) Downloading psutil-2.1.1.tar.gz (216Kb): 216Kb downloaded Running setup.py egg_info for package psutil
Successfully installed Glances psutil
Then run glances from terminal
glances -t 3



Walking in Light with Christ - Faith, Computing, Diary

Articles & tips and tricks on GNU/Linux, FreeBSD, Windows, mobile phone articles, religious related texts http://www.pc-freak.net/blog

-t 3 option tells glances to refresh collected statistics every 3 seconds



2. Installing Glances monitoring console tool on CentOS / RHEL / Fedora / Scientific Linux

Installing glances on CentOS 7 / Fedora and rest of RPM based distributions can be done by adding external RPM repositories, cause *glances* is not available in default yum repositories.

To enable Extra-packages repositories:



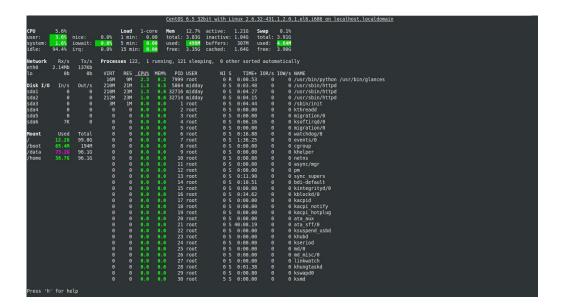
Walking in Light with Christ - Faith, Computing, Diary

Articles & tips and tricks on GNU/Linux, FreeBSD, Windows, mobile phone articles, religious related texts http://www.pc-freak.net/blog

rpm -ivh http://dl.fedoraproject.org/pub/epel/6/x86_64/epel-release-6-8.noarch.rpm

Then update yum to include new repository's packages into package list and install python-pip and python-devel rpms

yum update yum install python-pip python-devel



There is also FreeBSD port to install Glances on FreeBSD:

cd /usr/sysutils/py-glances make install



Walking in Light with Christ - Faith, Computing, Diary Articles & tips and tricks on GNU/Linux, FreeBSD, Windows,

Articles & tips and tricks on GNU/Linux, FreeBSD, Windows, mobile phone articles, religious related texts http://www.pc-freak.net/blog

Enjoy:)!

6/6