

# Install Munin (Monitoring Tool) Ubuntu 14.04

Munin the monitoring tool surveys all your computers and remembers what it saw. It presents all the information in graphs through a web interface. Its emphasis is on plug and play capabilities. After completing a installation a high number of monitoring plugins will be playing with no more effort.

Using Munin you can easily monitor the performance of your computers, networks, SANs, applications, weather measurements and whatever comes to mind. It makes it easy to determine “what's different today” when a performance problem crops up. It makes it easy to see how you're doing capacity-wise on any resources.

Munin uses the excellent RRDTool (written by Tobi Oetiker) and the framework is written in Perl, while plugins may be written in any language. Munin has a master/node architecture in which the master connects to all the nodes at regular intervals and asks them for data. It then stores the data in RRD files, and (if needed) updates the graphs. One of the main goals has been ease of creating new plugins (graphs).

Before installing munin you need to make sure you have Ubuntu 14.04 LAMP server is installed.

Now proceed with munin server using the following command from your terminal

```
sudo apt-get install munin
```

Once the package is installed, you only need to make a few changes to get your installation working.

### Configuring Munin server

You need to edit the /etc/munin/munin.conf file

```
sudo vim /etc/munin/munin.conf
```

Change the following lines

Change 1

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

to

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

Change 2

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

to

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

Change 3

the server name on the line localhost.localdomain should be updated to display the hostname, domain name, or other identifier you'd like to use for your monitoring server

```
# a simple host tree  
[localhost.localdomain]  
address 127.0.0.1  
use_node_name yes
```

to

```
[MuninMonitor]  
address 127.0.0.1  
use_node_name yes
```

Change 4

You need to edit the munin apache configuration

```
sudo vim /etc/munin/apache.conf
```

Change the following line in the starting of the file

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

to

```
Alias /munin /var/www/html/munin
```

and

We also need to allow connections from outside of the local computer for this do the following changes

```
<Directory /var/cache/munin/www>  
Order allow,deny  
Allow from localhost 127.0.0.0/8 ::1  
Options None
```

to

```
<Directory /var/www/html/munin>
```

```
Order allow,deny
#Allow from localhost 127.0.0.0/8 ::1
Allow from all
Options None
```

you will need to create the directory path that you referenced in the munin.conf file and modify the ownership to allow munin to write to it:

```
sudo cp -va /var/cache/munin/www /var/www/html/munin
sudo chmod 777 -Rf /var/www/html/munin
```

Now you need to restart the munin and apache services using the following commands

```
sudo service munin-node restart
sudo service apache2 restart
```

It might take a few minutes to generate the necessary graphs and html files. After about five minutes, your files should be created and you will be able to access your data. You should be able to access your munin details at:



If you get an error message in your browser similar to the following, you need to wait longer for munin to create the files

Forbidden

You don't have permission to access /munin/

Configure Remote Monitoring

Munin can easily monitor multiple servers at once. If you want to monitor remote servers you need to following this procedure.

First you need to install munin client package using the following commands

```
sudo apt-get install munin-node
```

Now you need to edit the munin-node.conf file to specify that your monitoring server is allowed to poll the client for information.

```
sudo vim /etc/munin/munin-node.conf
```

Search for the section that has the line "allow ^127\.\0\.\0\.\1\$". Modify the IP address to reflect your monitoring server's IP address. If your server ip is 172.30.2.100

```
allow ^\.\172\.\30\.\2\.\100$
```

Save and exit the file

You need to restart the munin client using the following information

```
sudo service munin-node restart
```

Now you need to login in to your munin server and edit the munin.conf file

```
sudo vim /etc/munin/munin.conf
```

Copy the following section and change the ip address to your remote server client ip address

```
[MuninMonitor]
address 127.0.0.1
use_node_name yes
```

to

```
[MuninMonitor]
address 172.30.2.101
use_node_name yes
```

Finally you need to restart the apache server using the following command

```
sudo service apache2 restart
```

### Additional Plugins

The munin-plugins-extra package contains performance checks additional services such as DNS, DHCP, Samba, etc. To install the package run the following command from the terminal

```
sudo apt-get install munin-plugins-extra
```

Make sure you have installed this package on both the server and node machines.

Source:

- [How to Geek](#)
- [Ubuntu Help](#)

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