



We're going to be able to ask our computers to monitor things for us.

– Steve Jobs



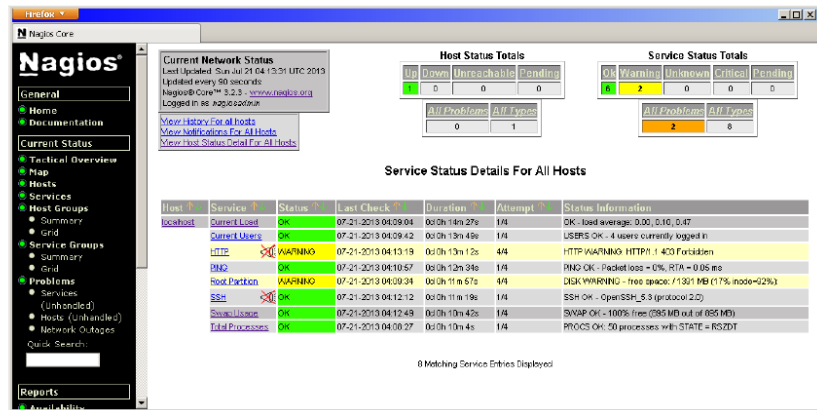
Module Overview

Nagios®
Core™

- Nagios monitoring
- Installing Nagios Core on Ubuntu
- Defining host entries
- Defining service entries
- Monitoring MySQL

Nagios Monitoring

- Monitoring of **Network Services**
- Monitoring of **Host Resources**
- Open Source **GPL V2**
- NSClient++ for **Windows**



```
$ sudo apt-get install tasksel
$ grep Task /usr/share/tasksel/ubuntu-tasks.desc
$ sudo tasksel OR
$ sudo tasksel install lamp-server
```

Nagios will be installed on Ubuntu

First we install the LAMP stack, we may choose to add **tasksel** first to ease the installation of LAMPS

Configure password for MySQL root

```
$ sudo apt-get install nagios3
```

Installing Nagios

The package is part of the default repositories

Prompted to configure SMTP and add password for nagiosadmin

Apache is restarted at the end of the install

Define Host Entries

```
define host{  
    use                generic-host  
    host_name          localhost  
    alias              localhost  
    address            127.0.0.1  
}
```

Define Nagios Host Entries

```
define host {  
    host_name tick  
    alias    tick NTP Server  
    address 192.168.0.3  
    use     generic-host  
}
```

```
$ sudo nagios3 -v /etc/nagios3/nagios.cfg  
$ sudo service nagios3 restart
```

Pre-flight Checks

Before restarting Nagios to implement changes we can test the configuration. Nagios will report a warning that there are no services associated with the new host

```
$ sudo vi /etc/ntp.conf
restrict 192.168.0.163
```

AVOIDS: **CRITICAL - Socket timeout after 10 seconds**

NTP Changes

- We will add a service definition for NTP later.
- But, first we fix the NTP configuration
- The Nagios server will need NTP restrictions removed

Service Entries

NTP OK 2014-12-30 15:57:11 0d 0h 11m 27s 1/4 NTP OK: Offset -0.000682 secs

```
define service {
    host_name tick
    service_description NTP
    check_command check_ntp
    use generic-service
}
$ sudo /usr/lib/nagios/plugins/check_ntp_peer -H tick
```

Monitor MySQL

Create MySQL Account

Define Nagios
Hostgroup

Define Nagios Service

```
CREATE USER 'nagios'@'192.168.0.163' IDENTIFIED BY 'Password1;'  
FLUSH PRIVILEGES;
```

On each MySQL Server

As the MySQL root create a new account limited to access from the Nagios server

```
define hostgroup {
    hostgroup_name mysql-servers
    alias          MySQL Servers
    members       mysql1,mysql2
}
```

Create a Hostgroup

As we have more than one MySQL server

The MySQL Service can be associated with the hostgroup

```
define service {
    hostgroup_name mysql-servers
    service_description MYSQL
    check_command check_mysql_cmdlinecred!nagios!Password1
    use generic-service
}
```

Define MySQL Service

Summary



- Monitored availability with Nagios
- Installed Nagios on Ubuntu 14.04
- Created hosts, hostgroups and service entries
- Monitored NTP and MySQL

Mysql.cfg

```
define host {  
  
    host_name mysql1  
    alias MY SQL 1 Server  
    address 35.164.219.74  
    use generic-host  
  
}  
  
define hostgroup {  
    hostgroup_name mysql-servers  
    alias MySQL Servers  
    members mysql1, mysql2  
  
}  
  
define service {  
    hostgroup_name mysql-servers  
    service_description MYSQL  
    check_command check_mysql_cmdlinecred!root!root  
    use generic-service  
  
}
```