

Install and Configure Nagios 4 On CentOS 8

Install Packages:

```
#yum install httpd php php-cli gd gd-devel gcc glibc glibc-common  
wget perl unzip zip net-snmp
```

Start Services:

```
#systemctl restart httpd
```

Setup User Accounts

Now create a new nagios user account and setup a password to this account

```
useradd nagios  
  
passwd nagios
```

Now create a group for nagios setup "nagcmd" and add nagios user to this group. Also add nagios user in apache group.

```
groupadd nagcmd  
  
usermod -a -G nagcmd nagios  
  
usermod -a -G nagcmd apache
```

Install Nagios Server

Download the latest version of Nagios Core using the terminal.

```
#cd /tmp/  
#wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.5.tar.gz  
#tar -zxvf nagios-4.4.5.tar.gz  
#cd /tmp/nagios-4.4.3
```

Compile and Install Nagios.

```
./configure --with-nagios-group=nagios --with-command-group=nagcmd  
make all  
make install  
make install-init  
make install-config  
make install-commandmode
```

Install Nagios Web Interface

Install the Nagios web configuration using the following command.

```
#make install-webconf
```

Run the following command to install a Nagios **exfoliation** theme

```
#make install-exfoliation
```

Configure Apache Authentication

We need to setup apache authentication for user nagiosadmin. Do not change this username. else you would required more changes in configuration.

```
#htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
```

Now restart Apache service to make the new settings take effect.

```
#systemctl restart httpd
```

Install Nagios Plugins

Download Nagios Plugins to /tmp directory.

```
#cd /tmp
#wget https://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz
#tar -zxvf nagios-plugins-2.3.3.tar.gz
#cd /tmp/nagios-plugins-2.3.3
```

Run the following commands one by one to compile and install it.

```
#./configure --with-nagios-user=nagios --with-nagios-group=nagios

#make

#make install
```

Configure Nagios

```
#vi /usr/local/nagios/etc/objects/contacts.cfg
```

Find the following line and enter the email id:

```
[...]

define contact{

    contact_name                nagiosadmin                ;
Short name of user

    use                         generic-contact             ;
Inherit default values from generic-contact template (defined
above)

    alias                       Nagios Admin               ;
Full name of user
```

```
        email                                sk@unixmen.com ; <<*****  
CHANGE THIS TO YOUR EMAIL ADDRESS *****  
  
    }  
  
[...]
```

Save and close the file.

Then, Edit file **/etc/httpd/conf.d/nagios.conf**,

```
#vi /etc/httpd/conf.d/nagios.conf
```

And edit the following lines if you want to access nagios administrative console from a particular IP series. Here, I want to allow nagios administrative access from 192.168.1.0/24 series only.

```
[...]  
  
## Comment the following lines ##  
  
#    Order allow,deny  
  
#    Allow from all  
  
## Uncomment and Change lines as shown below ##  
  
Order deny,allow  
  
Deny from all  
  
Allow from 127.0.0.1 192.168.1.0/24
```

All must do for two times

```
[...]
```

Restart httpd service:

```
#systemctl restart httpd
```

Verify and Start Nagios Server

Verify the sample Nagios configuration files.

```
#!/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
```

Output:

```
Nagios Core 4.4.5
Copyright (c) 2009-present Nagios Core Development Team and Community Contributor
s
Copyright (c) 1999-2009 Ethan Galstad
Last Modified: 2019-01-15
License: GPL

Website: https://www.nagios.org
Reading configuration data...
    Read main config file okay...
    Read object config files okay...

Running pre-flight check on configuration data...

Checking objects...
    Checked 8 services.
    Checked 1 hosts.
    Checked 1 host groups.
    Checked 0 service groups.
    Checked 1 contacts.
    Checked 1 contact groups.
    Checked 24 commands.
    Checked 5 time periods.
    Checked 0 host escalations.
    Checked 0 service escalations.
Checking for circular paths...
    Checked 1 hosts
    Checked 0 service dependencies
    Checked 0 host dependencies
    Checked 5 timeperiods
Checking global event handlers...
Checking obsessive compulsive processor commands...
```

```
Checking misc settings...
```

```
Total Warnings: 0
```

```
Total Errors: 0
```

```
Things look okay - No serious problems were detected during the pre-flight check
```

If there are no errors, then start the Nagios service.

```
#systemctl restart nagios
```

Start Nagios on system startup.

```
#systemctl enable nagios
```

Adjust SELinux Settings

By default, SELinux will be in enforcing mode, and it throws “**Internal Server Error**” messages when you attempt to access the Nagios CGIs.

To rectify this error, edit file **/etc/selinux/config**:

```
vi /etc/selinux/config
```

And, set SELinux to **disabled** mode.

```
[...]
```

```
SELINUX=disabled
```

```
[...]
```

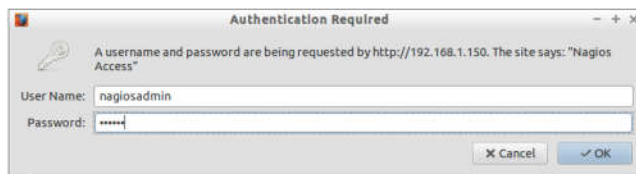
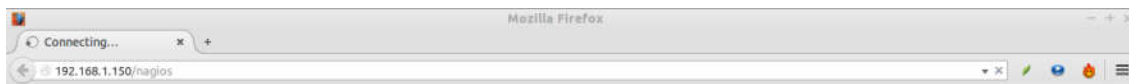
Reboot your server to take effects the changes.

Access Nagios in Web Browser

Nagios creates its own apache configuration file **/etc/httpd/conf.d/nagios.conf**. There are no need to make any changes to it. Simply open below url in browser.

http:// 192.168.1.150/nagios and enter

the username as **nagiosadmin** and its password which we created in the earlier steps.



Waiting for 192.168.1.150...

This is how Nagios administrative console looks:

Nagios Core - Mozilla Firefox

192.168.1.150/nagios/

Nagios® Core™

✓ Daemon running with PID 2563

Nagios® Core™
Version 4.0.8
August 12, 2014
[Check for updates](#)

Get Started

- Start monitoring your infrastructure
- Change the look and feel of Nagios
- Extend Nagios with hundreds of addons
- Get support
- Get training
- Get certified

Quick Links

- Nagios Library (tutorials and docs)
- Nagios Labs (development blog)
- Nagios Exchange (plugins and addons)
- Nagios Support (tech support)
- Nagios.com (company)
- Nagios.org (project)

Latest News

- NCPA 1.7.2 Released
- NCPA 1.7.1 Released
- Nagios Core 4.0.8 Released
- More news...

Don't Miss...

- Want to Learn More about Nagios Log Server? - Register for an upcoming live webinar!
- 2014 Nagios World Conference Proves Biggest Success Yet - Read More
- Nagios Extends IT Management Capabilities with Launch of Log Management Solution - Read More

Core Splash Play

NEW PRODUCTIONS

Nagios Log Server

PLAY ALL

2014

General

Home
Documentation

Current Status

Tactical Overview
Map
Hosts
Services
Host Groups
Summary
Grid
Service Groups
Summary
Grid
Problems
Services
(Unhandled)
Hosts (Unhandled)
Network Outages

Quick Search:

Reports

Availability
Trends
Alerts
History
Summary
Histogram
Notifications
Event Log

System

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Click on the **"Hosts"** section in the left pane of the console. You will see there the no of hosts to be monitored by Nagios server. We haven't added any hosts yet. So it simply monitors the localhost itself only.

Nagios Core - Mozilla Firefox

192.168.1.150/nagios/

Nagios®

Current Network Status
Last Updated: Tue Dec 16 14:42:42 IST 2014
Updated every 90 seconds
Nagios® Core™ 4.0.8 - www.nagios.org
Logged in as nagiosadmin

View Service Status Detail For All Host Groups
View Status Overview For All Host Groups
View Status Summary For All Host Groups
View Status Grid For All Host Groups

Host Status Totals

Up	Down	Unreachable	Pending
1	0	0	0

All Problems All Types

0 1

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
7	1	0	0	0

All Problems All Types

1 8

Host Status Details For All Host Groups

Limit Results: 100

Host	Status	Last Check	Duration	Status Information
localhost	UP	12-16-2014 14:41:03	0d 0h 25m 54s	PING OK - Packet loss = 0%, RTA = 0.15 ms

Results 1 - 1 of 1 Matching Hosts

General

Home
Documentation

Current Status

Tactical Overview
Map
Hosts
Services
Host Groups
Summary
Grid
Service Groups
Summary
Grid
Problems
Services
(Unhandled)
Hosts (Unhandled)
Network Outages

Quick Search:

Reports

Availability
Trends
Alerts
History
Summary
Histogram
Notifications
Event Log

System

Click on the particular host to display more details:

The screenshot shows the Nagios Core web interface in a Mozilla Firefox browser window. The address bar shows the URL `192.168.1.150/nagios/`. The interface is divided into several sections:

- Left Sidebar:** Contains navigation links for General, Current Status, Tactical Overview, Map, Hosts, Services, Host Groups, Service Groups, Problems, Reports, and System.
- Host Information:** Displays details for the host 'localhost'. It includes the last update time (Tue Dec 16 15:10:06 IST 2014), update frequency (every 90 seconds), Nagios Core version (4.0.8), and the user logged in (nagiosadmin). It also provides links to view status details, alert history, trends, alert histograms, and availability reports for this host.
- Host State Information:** A detailed box showing the host's current state as 'UP' (for 0d 0h 53m 18s). It includes performance data (PING OK, Packet loss = 0%, RTA = 0.20 ms), current attempt (1/10, HARD state), last check time (12-16-2014 15:06:03), check type (ACTIVE), check latency/duration (0.000 / 4.005 seconds), next scheduled active check (12-16-2014 15:11:07), last state change (12-16-2014 14:16:48), last notification (N/A), and whether the host is flapping (NO, 0.00% state change). It also shows the last update time (12-16-2014 15:10:01) and a list of enabled checks (Active, Passive, Obsessing, Notifications, Event Handler, Flap Detection).
- Host Commands:** A list of commands that can be executed on the host, such as 'Locate host on map', 'Disable active checks of this host', 'Re-schedule the next check of this host', etc.
- Host Comments:** A section for adding or deleting comments. It includes a table with columns for Entry Time, Author, Comment, Comment ID, Persistent, Type, Expires, and Actions. The table is currently empty, indicating no comments are associated with this host.