Nagios

MAIL: Rnraju4u@gmail.com NUMBER: +91 9848363431 YOUTUBE: SYSGEEKS



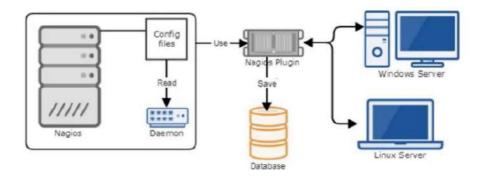
NAGIOS

- Nagios is a tool to monitor entire IT Infrastructure.
- It includes applications, services, and process to monitor.
- Nagios can send alert notifications in email, SMS etc.
- It can monitor "private" services and attributes of Windows, MacOS, Linux/UNIX servers, such as:
 - Memory usage
 - CPU load
 - Disk usage
 - Service states
 - Running processes
 - Logged in users... etc.

WHY NEED NAGIOS:

- Check to see server is up & running
- Check to see services (http, ssh, vsftpd, docker, mail etc) are responding
- To check process are running or not
- Able to have custom plugins to monitor

HOW ITS WORK:



NAGIOS INSTALLATION

SYSTEM REQUIREMENTS:

- Server OS (only 64-bit supported):
 - CentOS Stream
 - RHEL/CentOS 7.x
 - RHEL/CentOS 8.x
 - Debian 9.x/10.x
 - Ubuntu 16/18/20
- Minimum System Specs:
 - Single Core Processor
 - 2 GB RAM
 - 40 GB HD
- RECOMMENDED SYSTEM SPECS:
 - Quad Core Processor
 - 8+ GB RAM
 - 1+ TB HD

DIRECTORY STRUCTURE:

/usr/local/nagios/bin
/usr/local/nagios/sbin
/usr/local/nagios/share
/usr/local/nagios/libexec
PHP Files
Plugins Files

• /usr/local/nagios/etc : Configuration Files

• /usr/local/nagios/var : Log Files



NAGIOS INSTALLATION ON CENTOS / RHEL 9

STEP 1: Security-Enhanced Linux: SELinux being disabled or in permissive mode.

#sed -i 's/SELINUX=.*/SELINUX=disabled/g' /etc/selinux/config #setenforce 0

STEP 2: Installing Packages

#yum install -y gcc glibc glibc-common wget unzip httpd php gd gd-devel perl postfix openssl-devel

STEP 3: Create Nagios user and group

#useradd nagios

#passwd nagios

#groupadd nagemd

Adding users in to the group

#usermod -a -G nagemd nagios

#usermod -a -G nagcmd apache

STEP 4: Download Nagios Source file

#mkdir/root/nagios

#cd /root/nagios

#wget https://sourceforge.net/projects/nagios/files/nagios-4.x/nagios-

4.4.11/nagios-4.4.11.tar.gz

#tar -xzvf nagios-4.4.11.tar.gz

#ls



STEP5: Compile the code

#cd nagios-4.4.11

#./configure --with-command-group=nagcmd

#make all

STEP6: Install Binaries

#make install

Install Service / Daemon

#make install-init

Install Command mode

#make install-commandmode

Install Configuration Files

#make install-config

Install Apache Config Files

#make install-webconf

STEP 7: Create nagiosadmin User Account

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

Start Apache Web Server

#systemctl restart httpd

#systemctl enable httpd

#systemctl status httpd

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INSTALLING THE NAGIOS PLUGINS:

STEP 8: Downloading the Source

#cd /root/nagios

#wget https://nagios-plugins.org/download/nagios-plugins-2.4.4.tar.gz

#tar -xzvf nagios-plugins-2.4.4.tar.gz

#1s

STEP 9: Compile + Install

#cd nagios-plugins-2.4.4

#./configure --with-nagios-group=nagicmd

#make

#make install

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

STEP10: Start Nagios service

#systemctl start nagios

#systemctl enable nagios

#systemctl status nagios

Test Nagios:

Nagios is now running, to confirm this you need to log into the Nagios Web Interface.

http://IP-Address/nagio