https://server-computer.com **Nagios Installation In Linux**

Step1: Disable SELinux

sed -i 's/SELINUX=enforcing/SELINUX=disabled/g' /etc/selinux/config
setenforce 0

Step2: Allow Required Ports

```
# firewall-cmd --permanent --add-service=http
# firewall-cmd --permanent --add-service=https
# firewall-cmd –reload
```

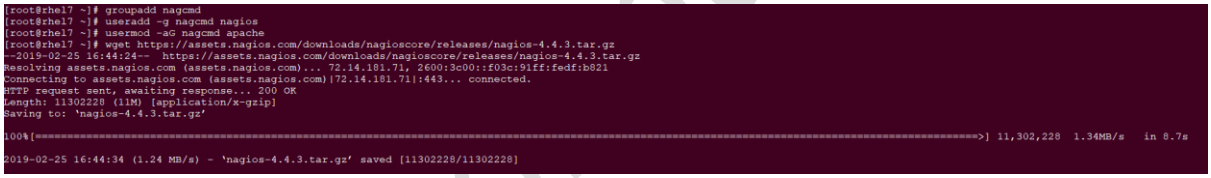
Step3: Install Required Packages

```
# yum install -y wget httpd php gcc glibc glibc-common gd gd-devel make
net-snmp perl perl-devel openssl
```

Step4: Download package

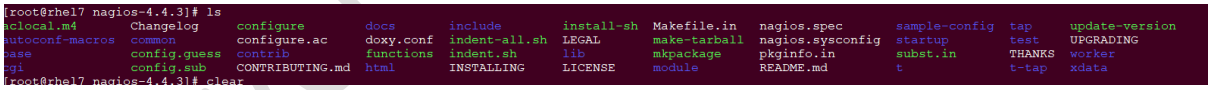
```
# wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-
4.4.3.tar.gz
```

Step5: Create User and Group



Extract the package

```
# tar –xvf Nagios-4.4.3.tar.gz
```




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

 Nagios Installation In Linux

```
Creating sample config files in sample-config/ ...


*** Configuration summary for nagios 4.4.3 2019-01-15 ***:

 General Options:
 -------------------------
        Nagios executable:  nagios
        Nagios user/group:  nagios,nagios
       Command user/group:  nagios,nagcmd
             Event Broker:  yes
        Install ${prefix}:  /usr/local/nagios
    Install ${includedir}:  /usr/local/nagios/include/nagios
                Lock file:  /run/nagios.lock
   Check result directory:  /usr/local/nagios/var/spool/checkresults
           Init directory:  /lib/systemd/system
  Apache conf.d directory:  /etc/httpd/conf.d
             Mail program:  /bin/mail
                  Host OS:  linux-gnu
          IOBroker Method:  epoll

 Web Interface Options:
 ------------------------
                 HTML URL:  http://localhost/nagios/
                  CGI URL:  http://localhost/nagios/cgi-bin/
 Traceroute (used by WAP):


Review the options above for accuracy.  If they look okay,
type 'make all' to compile the main program and CGIs.

[root@rhel7 nagios-4.4.3]#
```

Compile the package

```
[root@rhel7 nagios-4.4.3]# make all
cd ./base && make
make[1]: Entering directory `/root/nagios-4.4.3/base'
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o nagios.o nagios.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o broker.o broker.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o nebmods.o nebmods.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o ../common/shared.o ../common/shared.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o query-handler.o query-handler.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o workers.c
```

```
*** Compile finished ***

If the main program and CGIs compiled without any errors, you
can continue with testing or installing Nagios as follows (type
'make' without any arguments for a list of all possible options):

  make test
     - This runs the test suite

  make install
     - This installs the main program, CGIs, and HTML files

  make install-init
     - This installs the init script in /lib/systemd/system

  make install-daemoninit
     - This will initialize the init script
       in /lib/systemd/system

  make install-groups-users
     - This adds the users and groups if they do not exist

  make install-commandmode
     - This installs and configures permissions on the
       directory for holding the external command file

  make install-config
     - This installs *SAMPLE* config files in /usr/local/nagios/etc
       You'll have to modify these sample files before you can
       use Nagios.  Read the HTML documentation for more info
       on doing this.  Pay particular attention to the docs on
       object configuration files, as they determine what/how
       things get monitored!

  make install-webconf
     - This installs the Apache config file for the Nagios
       web interface

  make install-exfoliation
     - This installs the Exfoliation theme for the Nagios
       web interface

  make install-classicui
     - This installs the classic theme for the Nagios
       web interface
```

Step6: Install package

```
# make install
```

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```
*** Exfoliation theme installed ***
NOTE: Use 'make install-classicui' to revert to classic Nagios theme

make[1]: Leaving directory `/root/nagios-4.4.3'
make install-basic
make[1]: Entering directory `/root/nagios-4.4.3'
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/libexec
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/var
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/var/archives
/bin/install -c -m 775 -o nagios -g nagcmd -d /usr/local/nagios/var/spool/checkresults
chmod g+s /usr/local/nagios/var/spool/checkresults

*** Main program, CGIs and HTML files installed ***

You can continue with installing Nagios as follows (type 'make'
without any arguments for a list of all possible options):

  make install-init
     - This installs the init script in /lib/systemd/system

  make install-commandmode
     - This installs and configures permissions on the
       directory for holding the external command file

  make install-config
     - This installs sample config files in /usr/local/nagios/etc

make[1]: Leaving directory `/root/nagios-4.4.3'
[root@rhel7 nagios-4.4.3]#
```

```
# make install-init
# make install-config
# make install-webconf
# make install-classicui
```

```
[root@rhel7 nagios-4.4.3]# make install-init
/bin/install -c -m 755 -d -o root -g root /lib/systemd/system
/bin/install -c -m 755 -o root -g root startup/default-service /lib/systemd/system/nagios.service
[root@rhel7 nagios-4.4.3]# make install-commandmode
/bin/install -c -m 775 -o nagios -g nagcmd -d /usr/local/nagios/var/rw
chmod g+s /usr/local/nagios/var/rw

*** External command directory configured ***

[root@rhel7 nagios-4.4.3]# make install-config
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc
/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc/objects
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/nagios.cfg /usr/local/nagios/etc/nagios.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/cgi.cfg /usr/local/nagios/etc/cgi.cfg
/bin/install -c -b -m 660 -o nagios -g nagios sample-config/resource.cfg /usr/local/nagios/etc/resource.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/templates.cfg /usr/local/nagios/etc/objects/templates.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/commands.cfg /usr/local/nagios/etc/objects/commands.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/contacts.cfg /usr/local/nagios/etc/objects/contacts.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/timeperiods.cfg /usr/local/nagios/etc/objects/timeperiods.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/localhost.cfg /usr/local/nagios/etc/objects/localhost.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/windows.cfg /usr/local/nagios/etc/objects/windows.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/printer.cfg /usr/local/nagios/etc/objects/printer.cfg
/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/switch.cfg /usr/local/nagios/etc/objects/switch.cfg

*** Config files installed ***

Remember, these are *SAMPLE* config files.  You'll need to read
the documentation for more information on how to actually define
services, hosts, etc. to fit your particular needs.

[root@rhel7 nagios-4.4.3]# make install-webconf
/bin/install -c -m 644 sample-config/httpd.conf /etc/httpd/conf.d/nagios.conf
if [ 0 -eq 1 ]; then \
        ln -s /etc/httpd/conf.d/nagios.conf /etc/apache2/sites-enabled/nagios.conf; \
fi

*** Nagios/Apache conf file installed ***

[root@rhel7 nagios-4.4.3]# make install-classicui

*** Classic theme installed ***
NOTE: Use 'make install-exfoliation' to use new Nagios theme
```

Create nagiosadmin user and password for web console access. Enable and Start Services.

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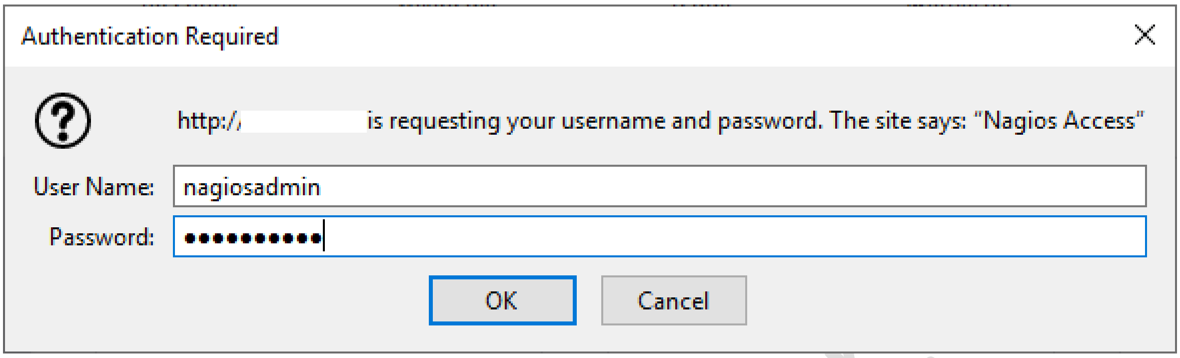
```
[root@rhel7 nagios-4.4.3]# htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
New password:
Re-type new password:
Adding password for user nagiosadmin
[root@rhel7 nagios-4.4.3]# systemctl start httpd
[root@rhel7 nagios-4.4.3]# systemctl start nagios
[root@rhel7 nagios-4.4.3]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@rhel7 nagios-4.4.3]# systemctl enable nagios
Created symlink from /etc/systemd/system/multi-user.target.wants/nagios.service to /usr/lib/systemd/system/nagios.service.
[root@rhel7 nagios-4.4.3]#
```

Login to Web console



Services

Service Status Details For All Hosts

Limit Results: 100

Host	Service	Status	Last Check	Duration	Attempt	Status Information
localhost	Current Load	CRITICAL	02-25-2019 17:15:58	0d 0h 2m 34s	1/4	(No output on stdout) stderr: execvp(/usr/local/nagios/libexec/check_load, ...) failed. errno is 2: No such file or directory
	Current Users	CRITICAL	02-25-2019 17:16:36	0d 0h 1m 56s	1/4	(No output on stdout) stderr: execvp(/usr/local/nagios/libexec/check_users, ...) failed. errno is 2: No such file or directory
	HTTP	CRITICAL	02-25-2019 17:17:13	0d 0h 1m 19s	1/4	(No output on stdout) stderr: execvp(/usr/local/nagios/libexec/check_http, ...) failed. errno is 2: No such file or directory
	PING	CRITICAL	02-25-2019 17:17:51	0d 0h 0m 41s	1/4	(No output on stdout) stderr: execvp(/usr/local/nagios/libexec/check_ping, ...) failed. errno is 2: No such file or directory
	Root Partition	CRITICAL	02-25-2019 17:18:28	0d 0h 0m 4s	1/4	(No output on stdout) stderr: execvp(/usr/local/nagios/libexec/check_disk, ...) failed. errno is 2: No such file or directory
	SSH	PENDING	N/A	0d 0h 3m 11s+	1/4	Service check scheduled for Mon Feb 25 17:19:06 IST 2019
	Swap Usage	PENDING	N/A	0d 0h 3m 11s+	1/4	Service check scheduled for Mon Feb 25 17:19:43 IST 2019
	Total Processes	PENDING	N/A	0d 0h 3m 11s+	1/4	Service check scheduled for Mon Feb 25 17:20:21 IST 2019

Results 1 - 8 of 8 Matching Services

Step7: Download and install Nagios Plugins

```
[root@rhel7 ~]# wget https://nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz
--2019-02-25 17:59:24--  https://nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz
Resolving nagios-plugins.org (nagios-plugins.org)... 72.14.186.43
Connecting to nagios-plugins.org (nagios-plugins.org)|72.14.186.43|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2728818 (2.6M) [application/x-gzip]
Saving to: 'nagios-plugins-2.2.1.tar.gz'

100%[======================================================================>] 2,728,818   1.05MB/s   in 2.5s

2019-02-25 17:59:28 (1.05 MB/s) - 'nagios-plugins-2.2.1.tar.gz' saved [2728818/2728818]

[root@rhel7 ~]# ls
anaconda-ks.cfg       cookies              get-pip.py    index.html.4       nagios-4.4.3                     roles              version.py
backup.cjar           cookies.txt          group_vars    library            nagios-4.4.3.tar.gz              site.yml           Webinject
cjar                  cp                   host_vars     LoginForm.jsp      nagios-plugins-2.2.1.tar.gz      smartfile          wget
client-python         dst                  index.html    LoginForm.jsp.1    objectivefs-5.5-1.x86_64.rpm     src
client-python.git     ec2.sh               index.html.1  LoginForm.jsp.2    perl5                            staging
Code                  edq01-t64.ads.finisar.com:7010  index.html.2  loginresults.html  production          test.py
console.portal?_nfpb=true&_pageLabel=HomePage1  filter_plugins  index.html.3  module_utils  python-linkedin-4.1.tar.gz  versiondetect.txt
[root@rhel7 ~]# tar -xvf nagios-plugins-2.2.1.tar.gz
nagios-plugins-2.2.1/
nagios-plugins-2.2.1/perlmods/
nagios-plugins-2.2.1/perlmods/Config-Tiny-2.14.tar.gz
```

```
cd nagios-plugins-2.2.1
./configure --with-nagios-user=nagios --with-nagios-group=nagcmd
make
make install
```

```
make[1]: Leaving directory '/root/nagios-plugins-2.2.1/po'
make[1]: Entering directory '/root/nagios-plugins-2.2.1'
make[2]: Entering directory '/root/nagios-plugins-2.2.1'
make[2]: Nothing to be done for 'install-exec-am'.
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/root/nagios-plugins-2.2.1'
make[1]: Leaving directory '/root/nagios-plugins-2.2.1'
[root@rhel7 nagios-plugins-2.2.1]# cd /usr/local/nagios/libexec/
[root@rhel7 libexec]# ls
check_apt      check_dig         check_flexlm      check_ifoperstatus  check_ldaps     check_mysql        check_ntp       check_ping     check_simap  check_swap    check_users    utils.sh
check_breeze   check_disk        check_ftp         check_ifstatus      check_load      check_mysql_query  check_ntp_peer  check_pop      check_smtp   check_tcp     check_wave
check_by_ssh   check_disk_smb    check_hpjd        check_imap          check_log       check_nagios       check_ntp_time  check_procs    check_snmp   check_time    eventhandlers
check_clamd    check_dns         check_http        check_ircd          check_mailq     check_nntp         check_nwstat    check_real     check_spop   check_udp     negate
check_cluster  check_dummy       check_icmp        check_jabber        check_mrtg      check_nntps        check_oracle    check_rpc      check_ssh    check_ups     urlize
check_dhcp     check_file_age    check_ide_smart   check_ldap          check_mrtgtraf  check_nt           check_overcr    check_sensors  check_ssmtp  check_uptime  utils.pm
[root@rhel7 libexec]#
```

Done.

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Host	Service	Status	Last Check	Duration	Attempt	Status Information
localhost	Current Load	OK	02-25-2019 18:10:58	0d 0h 6m 55s	1/4	OK - load average: 0.00, 0.04, 0.05
	Current Users	OK	02-25-2019 18:11:36	0d 0h 6m 17s	1/4	USERS OK - 1 users currently logged in
	HTTP	OK	02-25-2019 18:12:13	0d 0h 5m 40s	1/4	HTTP OK: HTTP/1.0 200 OK - 6368 bytes in 0.101 second response time
	PING	OK	02-25-2019 18:07:51	0d 0h 5m 2s	1/4	PING OK - Packet loss = 0%, RTA = 0.05 ms
	Root Partition	OK	02-25-2019 18:08:28	0d 0h 4m 25s	1/4	DISK OK - free space: / 40551 MB (79.24% inode=99%):
	SSH	OK	02-25-2019 18:09:06	0d 0h 8m 47s	1/4	SSH OK - OpenSSH_7.4 (protocol 2.0)
	Swap Usage	OK	02-25-2019 18:09:43	0d 0h 8m 10s	1/4	SWAP OK - 100% free (8063 MB out of 8063 MB)
	Total Processes	OK	02-25-2019 18:10:21	0d 0h 7m 32s	1/4	PROCS OK: 83 processes with STATE = RSZDT

Results 1 - 8 of 8 Matching Services

After successful installation of plugins, you can see all service checks completes normally.