



PARSHVANATH CHARITABLE TRUST'S

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Department of Information Technology

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Semester: V

Academic Year: 2024-25

Class / Branch: TE IT

Subject: Advanced Devops Lab (ADL)

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EXPERIMENT NO. 09

Aim: To Understand Continuous monitoring and Installation and configuration of Nagios Core, Nagios Plugins and NRPE (Nagios Remote Plugin Executor) on Linux Machine.

Theory:

1 - Pre-requisite

First requirement is to install Apache and PHP first. Use the following commands to complete it. And use commands to install required packages for Nagios.

```
manjusha@apsit:~$ sudo apt-get update
manjusha@apsit:~$ sudo apt-get install wget build-essential unzip openssl
libssl-dev
manjusha@apsit:~$ sudo apt-get install apache2 php libapache2-mod-php php-gd
libgd-dev
```

2 – Create Nagios User

Create a new user account for Nagios in your system and assign a password.

```
manjusha@apsit:~$ sudo adduser nagios
```

Now create a group for Nagios setup “nagcmd” and add nagios user to this group. Also, add nagios user in the Apache group.

```
manjusha@apsit:~$ sudo groupadd nagcmd
manjusha@apsit:~$ sudo usermod -a -G nagcmd nagios
manjusha@apsit:~$ sudo usermod -a -G nagcmd www-data
```

Step 3 – Install Nagios Core Service

After installing required dependencies and adding user accounts and Nagios core installation. Download latest Nagios core service from the official site.

```
manjusha@apsit:~$ cd /opt/
```



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```
manjusha@apsit:~$sudo wget
https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.3.tar.gz
manjusha@apsit:~$sudo tar xzf nagios-4.4.3.tar.gz
```

After extracting navigate to nagios source directory and install using make command.

```
manjusha@apsit:~$cd nagios-4.4.3
```

```
manjusha@apsit:~$sudo ./configure --with-command-group=nagcmd
manjusha@apsit:~$sudo make all
manjusha@apsit:~$sudo make install
```

```
manjusha@apsit:~$sudo make install-init
manjusha@apsit:~$sudo make install-daemoninit
manjusha@apsit:~$sudo make install-config
manjusha@apsit:~$sudo make install-commandmode
manjusha@apsit:~$sudo make install-exfoliation
```

Now copy event handlers scripts under libexec directory. These binaries provides multiple events triggers for your Nagios web interface.

```
manjusha@apsit:~$sudo cp -R contrib/eventhandlers/ /usr/local/nagios/libexec/
manjusha@apsit:~$sudo chown -R nagios:nagios
/usr/local/nagios/libexec/eventhandlers
```

Step 4 – Setup Apache with Authentication

Now create an Apache configuration file for your Nagios server as below:

```
manjusha@apsit:~$sudo nano /etc/apache2/conf-available/nagios.conf
```

Add below lines to nagios.conf file.

```
ScriptAlias /nagios/cgi-bin "/usr/local/nagios/sbin"
```

```
<Directory "/usr/local/nagios/sbin">
```

```
Options ExecCGI
AllowOverride None
Order allow,deny
Allow from all
AuthName "Restricted Area"
AuthType Basic
AuthUserFile /usr/local/nagios/etc/htpasswd.users
Require valid-user
```

```
</Directory>
```



```
Alias /nagios "/usr/local/nagios/share"
```

```
<Directory "/usr/local/nagios/share">  
Options None  
AllowOverride None  
Order allow,deny  
Allow from all  
AuthName "Restricted Area"  
AuthType Basic  
AuthUserFile /usr/local/nagios/etc/htpasswd.users  
Require valid-user  
</Directory>
```

To setup apache authentication for user **nagiosadmin**

```
manjusha@apsit:~$sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users  
nagiosadmin
```

Enable Apache configuration and restart Apache service to make the new settings take effect.cd

```
manjusha@apsit:~$sudo a2enconf nagios  
manjusha@apsit:~$sudo a2enmod cgi rewrite  
manjusha@apsit:~$sudo service apache2 restart
```

Step 5 – Installing Nagios Plugins

After installing and configuring Nagios core service, Download latest nagios-plugins source and install using folloccdwing commands.

```
manjusha@apsit:~$cd /opt  
manjusha@apsit:~$sudo wget http://www.nagios-plugins.org/download/nagios-  
plugins-2.2.1.tar.gz  
manjusha@apsit:~$sudo tar xzf nagios-plugins-2.2.1.tar.gznagios  
manjusha@apsit:~$cd nagios-plugins-2.2.1
```

Now compile and install Nagios plugins

```
manjusha@apsit:~$sudo ./configure --with-nagios-user=nagios --with-nagios-  
group=nagios --with-openssl  
manjusha@apsit:~$sudo make  
manjusha@apsit:~$sudo make install
```

Step 6 – Verify Settings

Use the Nagios commands to verify the Nagios installation and configuration file. After successfully verify start the Nagios core service.

```
manjusha@apsit:~$ /usr/local/nagios/bin/nagios -v  
/usr/local/nagios/etc/nagios.cfg  
manjusha@apsit:~$ sudo service nagios start
```



Also configure Nagios to auto start on system boot.

Step 7 – Access Nagios Web Interface

Access your nagios setup by access nagios server using hostname or ip address followed by /nagios.

<http://127.0.0.1/nagios/>

Prompting for Apache Authentication Password –

username: nagiosadmin

Password : 123456 (which you enter while configuration)

Nagios After login screen –

We have successfully installed and configured Nagios Monitoring Server core service in our system now we need to install NRPE on all remote Linux systems to monitor with Nagios.



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Screenshots:

```
root@vora:~# sudo apt-get install wget build-essential unzip openssl libssl-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
build-essential is already the newest version (12.8ubuntu1.1).
libssl-dev is already the newest version (1.1.1f-1ubuntu2.23).
openssl is already the newest version (1.1.1f-1ubuntu2.23).
unzip is already the newest version (6.0-25ubuntu1.2).
wget is already the newest version (1.20.3-1ubuntu2.1).
The following packages were automatically installed and are no longer required:
  gyp libjs-inherits libjs-is-typedarray libjs-psl libjs-typedarray-to-buffer libuv1-dev node-abbrev node-ajv node-ansi node-ansi-align node-ansi-regex node-ansi-styles
node-ansistyles node-aproba node-archy node-are-we-there-yet node-asap node-assert-plus node-asynckit node-aws-sign2 node-aws4 node-balanced-match
node-bcrypt-pbkdf node-bl node-bluebird node-boxen node-brace-expansion node-builtin-modules node-builtins node-cacache node-call-limit node-camelcase node-caseless
node-chalk node-chownr node-ci-info node-cli-boxes node-clit node-clone node-co node-color-convert node-color-name node-colors node-columnify node-combined-stream
node-concat-map node-concat-stream node-config-chain node-configstore node-console-control-strings node-copy-concurrently node-core-util-is node-cross-spawn
node-crypto-random-string node-cyclist node-dashdash node-debug node-decanelize node-decompress-response node-deep-extend node-defaults node-define-properties
node-delayed-stream node-delegates node-detect-indent node-detect-newline node-dot-prop node-duplexer3 node-duplexify node-ecc-jsbn node-editor node-encoding
node-end-of-stream node-err-code node-errno node-es6-promise node-escape-string-regexp node-execa node-extend node-extend-shallow node-extsprintf node-fast-deep-equal node-find-up
node-flush-write-stream node-forever-agent node-form-data node-from2 node-fs-vacuum node-fs-write-stream-atomic node-fs.realpath node-function-bind node-gauge node-genfun
node-get-caller-file node-get-stream node-getpass node-glob node-got node-graceful-fs node-har-schema node-har-validator node-has-flag node-has-symbol-support-x
node-has-to-string-tag-x node-has-unicode node-hosted-git-info node-http-signature node-iconv-lite node-iferr node-import-lazy node-imurmurhash node-inflight node-inherits
node-int node-invert-kv node-ip node-ip-regex node-is-npm node-is-obj node-is-object node-is-path-inside node-is-plain-obj node-is-retry-allowed node-is-stream
node-is-typedarray node-isarray node-isexe node-istextorbinary node-iterator node-jison node-json-parse-better-errors node-json-schema node-json-schema-traverse
node-json-stable-stringify node-json-stringify-safe node-jsonify node-jsonparse node-jsonstream node-jsprim node-latest-version node-lazy-property node-licd node-libnp
node-locate-path node-lockfile node-lodash node-lodash-packages node-lowercase-keys node-lru-cache node-make-dir node-man node-mime node-mime-types node-mimic-fn
node-mimic-response node-mimic-match node-mimic-tree node-mkdirp node-move-concurrently node-ms node-mute-stream node-napi node-normalize-package-data
node-npm-bundled node-npm-package-arg node-npm-run-path node-npmlog node-number-is-nan node-oauth-sign node-object-assign node-once node-opener node-os-locale
node-os-tmpdir node-osenv node-p-cancelable node-p-finally node-p-is-promise node-p-limit node-p-locate node-p-timeout node-package-json node-parallel-transform
node-path-exists node-path-is-absolute node-path-is-inside node-performance-now node-pify node-prepend-http node-process-nexttick-args node-promise-inflight
node-promise-retry node-pronard node-protocol-list node-prr node-pseudomap node-psl node-pump node-pumpify node-punycode node-qs node-qw node-rc node-read
node-read-package-json node-readable-stream node-registry-auth-token node-registry-url node-request node-require-directory node-require-main-filename node-resolve
node-resolve-from node-retry node-rimraf node-run-queue node-safe-buffer node-semver node-semver-diff node-set-blocking node-sha node-shebang-command node-shebang-regex
node-signal-exit node-slash node-slide node-sorted-object node-spdx-correct node-spdx-exceptions node-spdx-expression-parse node-spdx-license-ids node-sshpk node-ssri
node-stream-each node-stream-iterate node-stream-shift node-strict-uri-encode node-string-decoder node-string-width node-strip-ansi node-strip-eof node-strip-json-comments
node-supports-color node-tar node-tern size node-text-table node-through node-through2 node-timed-out node-tough-cookie node-tunnel-agent node-tweetnacl node-typedarray
node-typedarray-to-buffer node-uid-number node-unique-filename node-unique-string node-unpipe node-urix node-url node-url-parse node-url-parse-lax node-url-to-options node-util-deprecate
node-uuid node-validate-npm-package-license node-validate-npm-package-name node-vm node-vm2 node-wcwidth node-which node-which-module node-wide-align node-widest-line
node-wrap-ansi node-wrap-ansi node-wrap-ansi node-wrap-ansi node-wrap-ansi node-wrap-ansi node-wrap-ansi node-wrap-ansi node-wrap-ansi node-wrap-ansi node-wrap-ansi node-wrap-ansi
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 68 not upgraded.
root@vora:~# sudo apt-get install apache2 php libapache2-mod-php php-gd libgd-dev
Reading package lists... Done
Building dependency tree
```

```
0 upgraded, 0 newly installed, 0 to remove and 68 not upgraded.
root@vora:~# sudo adduser nagios
adduser: The user 'nagios' already exists.
root@vora:~#
```

```
root@vora:~# sudo groupadd nagcmd
groupadd: group 'nagcmd' already exists
root@vora:~# sudo usermod -a -G nagcmd nagios
root@vora:~# sudo usermod -a -G nagcmd www-data
root@vora:~#
```

```
root@vora:/opt# sudo wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.3.tar.gz
--2024-10-03 11:25:43-- https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.3.tar.gz
Resolving assets.nagios.com (assets.nagios.com)... 45.79.49.128, 2600:3c00::f03c:92ff:fe7f:45ce
Connecting to assets.nagios.com (assets.nagios.com)|45.79.49.128|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11302228 (11M) [application/x-gzip]
Saving to: 'nagios-4.4.3.tar.gz.1'

nagios-4.4.3.tar.gz.1 100%[=====] 10.78M 1.27MB/s in 9.7s

2024-10-03 11:25:54 (1.11 MB/s) - 'nagios-4.4.3.tar.gz.1' saved [11302228/11302228]

root@vora:/opt#
```



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```
root@vora:/opt# sudo tar xzf nagios-4.4.3.tar.gz
root@vora:/opt# cd nagios-4.4.3
root@vora:/opt/nagios-4.4.3#
```

```
root@vora:/opt# sudo tar xzf nagios-4.4.3.tar.gz
root@vora:/opt# cd nagios-4.4.3
root@vora:/opt/nagios-4.4.3# sudo ./configure --with-command-group=nagcmd
checking for a BSD-compatible install... /usr/bin/install -c
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
checking whether make sets $(MAKE)... yes
checking whether ln -s works... yes
checking for strip... /usr/bin/strip
checking how to run the C preprocessor... gcc -E
checking for grep that handles long lines and -e... /bin/grep
checking for egrep... /bin/grep -E
checking for ANSI C header files... yes
checking whether time.h and sys/time.h may both be included... yes
checking for sys/wait.h that is POSIX.1 compatible... yes
checking for sys/types.h... yes
checking for sys/stat.h... yes
checking for stdlib.h... yes
checking for string.h... yes
checking for memory.h... yes
checking for strings.h... yes
checking for inttypes.h... yes
checking for stdint.h... yes
checking forunistd.h... yes
checking arpa/inet.h usability... yes
checking arpa/inet.h presence... yes
checking for arpa/inet.h... yes
checking ctype.h usability... yes
checking ctype.h presence... yes
checking for ctype.h... yes
checking dirent.h usability... yes
checking dirent.h presence... yes
checking for dirent.h... yes
checking for dirent.h... yes
```



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```
root@vora:/opt/nagios-4.4.3# sudo make all
cd ./base && make
make[1]: Entering directory '/opt/nagios-4.4.3/base'
make -C ../lib
make[2]: Entering directory '/opt/nagios-4.4.3/lib'
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c squeeze.c -o squeeze.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c kvvec.c -o kvvec.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c tocache.c -o tocache.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c tobroker.c -o tobroker.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c bitnap.c -o bitnap.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c dkhsh.c -o dkhsh.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c runcmd.c -o runcmd.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c nsutils.c -o nsutils.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c fanout.c -o fanout.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c pqueue.c -o pqueue.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c worker.c -o worker.o
worker.c: In function 'enter_worker':
worker.c:758:8: warning: ignoring return value of 'chdir', declared with attribute warn_unused_result [-Wunused-result]
   758 |     (void)chdir("/tmp");
       |     ~~~~~^
worker.c:759:8: warning: ignoring return value of 'chdir', declared with attribute warn_unused_result [-Wunused-result]
   759 |     (void)chdir("/opt/nagios-workers");
       |     ~~~~~^
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c skiplist.c -o skiplist.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c nsock.c -o nsock.o
gcc -Wall -g -O2 -DHAVE_CONFIG_H -c nspath.c -o nspath.o
ar cr libnagios.a squeeze.o kvvec.o tocache.o tobroker.o bitnap.o dkhsh.o runcmd.o nsutils.o fanout.o pqueue.o worker.o skiplist.o nsock.o nspath.o
make[2]: Leaving directory '/opt/nagios-4.4.3/lib'
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DMSCORE -o nagios nagios.o broker.o nebmnds.o ../common/shared.o query-handler.o workers.o checks.o config.o commands.o events.o flapping.o logging.o macros-base.o netutils.o notifications.o schedulers.o utils.o retention-base.o xretention-base.o comments-base.o xcomments-base.o objects-base.o xobjects-base.o statusdata-base.o xstatusdata-base.o perfdata-base.o xperfdata-base.o downtime-base.o xdl-export-dynamic -ln -ldl ../lib/libnagios.a
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DMSCORE -o nagiosstats nagiosstats.c -ln ../lib/libnagios.a
make[1]: Leaving directory '/opt/nagios-4.4.3/base'
cd ../cgi && make
make[1]: Entering directory '/opt/nagios-4.4.3/cgi'
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DMSCGI -DJSDN_NAGIOS_4X -o archivejson.cgi archivejson.c ../common/shared.o getcgi.o cgiutils.o cgiauth.o macros-cgi.o objects-cgi.o xobjects-cgi.o xstatusdata-cgi.o xstatusdata-cgi.o comments-cgi.o downtime-cgi.o ../lib/libnagios.a
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DMSCGI -o avail.cgi avail.c ../common/shared.o getcgi.o cgiutils.o cgiauth.o macros-cgi.o objects-cgi.o xobjects-cgi.o statusdata-cgi.o xstatusdata-cgi.o comments-cgi.o downtime-cgi.o ../lib/libnagios.a
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DMSCGI -o cmd.cgi cmd.c extcmd_list.o ../common/shared.o getcgi.o cgiutils.o cgiauth.o macros-cgi.o objects-cgi.o xobjects-cgi.o statusdata-cgi.o xstatusdata-cgi.o comments-cgi.o downtime-cgi.o ../lib/libnagios.a
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DMSCGI -o config.cgi config.c ../common/shared.o getcgi.o cgiutils.o cgiauth.o macros-cgi.o objects-cgi.o xobjects-cgi.o statusdata-cgi.o xstatusdata-cgi.o comments-cgi.o downtime-cgi.o ../lib/libnagios.a
```

```
root@vora:/opt/nagios-4.4.3# sudo make install
cd ./base && make install
make[1]: Entering directory '/opt/nagios-4.4.3/base'
make install-basic
make[2]: Entering directory '/opt/nagios-4.4.3/base'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/bin
/usr/bin/install -c -m 774 -o nagios -g nagios nagios /usr/local/nagios/bin
/usr/bin/install -c -m 774 -o nagios -g nagios nagiosstats /usr/local/nagios/bin
make[2]: Leaving directory '/opt/nagios-4.4.3/base'
make strip-post-install
make[2]: Entering directory '/opt/nagios-4.4.3/base'
/usr/bin/strip /usr/local/nagios/bin/nagios
/usr/bin/strip /usr/local/nagios/bin/nagiosstats
make[2]: Leaving directory '/opt/nagios-4.4.3/base'
make[1]: Leaving directory '/opt/nagios-4.4.3/base'
cd ../cgi && make install
make[1]: Entering directory '/opt/nagios-4.4.3/cgi'
make install-basic
make[2]: Entering directory '/opt/nagios-4.4.3/cgi'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/sbin
for file in *.cgi; do \
    /usr/bin/install -c -m 775 -o nagios -g nagios $file /usr/local/nagios/sbin; \
done
make[2]: Leaving directory '/opt/nagios-4.4.3/cgi'
make strip-post-install
make[2]: Entering directory '/opt/nagios-4.4.3/cgi'
for file in *.cgi; do \
    /usr/bin/strip /usr/local/nagios/sbin/$file; \
done
make[2]: Leaving directory '/opt/nagios-4.4.3/cgi'
make[1]: Leaving directory '/opt/nagios-4.4.3/cgi'
cd ../html && make install
make[1]: Entering directory '/opt/nagios-4.4.3/html'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/media
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/stylesheets
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/contexthelp
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/docs
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/docs/images
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/js
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/images
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/images/logos
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/includes
```




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```
root@vora:/opt/nagios-4.4.3# sudo make install-init
/usr/bin/install -c -m 755 -d -o root -g root /lib/systemd/system
/usr/bin/install -c -m 755 -o root -g root startup/default-service /lib/systemd/system/nagios.service
root@vora:/opt/nagios-4.4.3# sudo make install-daemoninit
/usr/bin/install -c -m 755 -d -o root -g root /lib/systemd/system
/usr/bin/install -c -m 755 -o root -g root startup/default-service /lib/systemd/system/nagios.service

*** Init script installed ***

root@vora:/opt/nagios-4.4.3# sudo make install-config
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc/objects
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/nagios.cfg /usr/local/nagios/etc/nagios.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/cgi.cfg /usr/local/nagios/etc/cgi.cfg
/usr/bin/install -c -b -m 660 -o nagios -g nagios sample-config/resource.cfg /usr/local/nagios/etc/resource.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/templates.cfg /usr/local/nagios/etc/objects/templates.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/commands.cfg /usr/local/nagios/etc/objects/commands.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/contacts.cfg /usr/local/nagios/etc/objects/contacts.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/timeperiods.cfg /usr/local/nagios/etc/objects/timeperiods.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/localhost.cfg /usr/local/nagios/etc/objects/localhost.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/windows.cfg /usr/local/nagios/etc/objects/windows.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/printer.cfg /usr/local/nagios/etc/objects/printer.cfg
/usr/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@vora:/opt/nagios-4.4.3# sudo make install-commandmode
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/var/rw
chmod g+s /usr/local/nagios/var/rw

*** External command directory configured ***

root@vora:/opt/nagios-4.4.3# sudo make install-exfoliation

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

root@vora:/opt/nagios-4.4.3#
```

NOTE: Use 'make install-classicui' to revert to classic Nagios theme

```
root@vora:/opt/nagios-4.4.3# sudo cp -R contrib/eventhandlers/ /usr/local/nagios/libexec/
root@vora:/opt/nagios-4.4.3# sudo chown -R nagios:nagios /usr/local/nagios/libexec/eventhandlers
root@vora:/opt/nagios-4.4.3# sudo nano /etc/apache2/conf-available/nagios.conf
root@vora:/opt/nagios-4.4.3# sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
New password:
Re-type new password:
Adding password for user nagiosadmin
root@vora:/opt/nagios-4.4.3#
```




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```
root@vora:/opt/nagios-4.4.3# sudo a2enconf nagios
Conf nagios already enabled
root@vora:/opt/nagios-4.4.3# sudo a2enmod cgi rewrite
Module cgi already enabled
Module rewrite already enabled
root@vora:/opt/nagios-4.4.3# sudo service apache2 restart
root@vora:/opt/nagios-4.4.3#
```

```
root@vora:/opt/nagios-4.4.3# sudo service apache2 restart
root@vora:/opt/nagios-4.4.3# cd /opt
root@vora:/opt# ls
BurpsuiteCommunity  google  nagios-4.4.3  nagios-4.4.3.tar.gz  nagios-4.4.3.tar.gz.1  nagios-plugins-2.2.1  nagios-plugins-2.2.1.tar.gz  zapreky
root@vora:/opt# cd nagios-plugins-2.2.1
root@vora:/opt/nagios-plugins-2.2.1#
```

```
root@vora:/opt/nagios-4.4.3# sudo service apache2 restart
root@vora:/opt/nagios-4.4.3# cd /opt
root@vora:/opt# ls
BurpsuiteCommunity  google  nagios-4.4.3  nagios-4.4.3.tar.gz  nagios-4.4.3.tar.gz.1  nagios-plugins-2.2.1  nagios-plugins-2.2.1.tar.gz  zapreky
root@vora:/opt# cd nagios-plugins-2.2.1
root@vora:/opt/nagios-plugins-2.2.1#
```



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```
config.status: creating po/Makefile
root@vora:/opt/nagios-plugins-2.2.1# sudo make
make all-recursive
make[1]: Entering directory '/opt/nagios-plugins-2.2.1'
Making all in gl
make[2]: Entering directory '/opt/nagios-plugins-2.2.1/gl'
rm -f alloca.h-t alloca.h && \
{ echo '/* DO NOT EDIT! GENERATED AUTOMATICALLY! */'; \
  cat ./alloca.in.h; \
} > alloca.h-t && \
mv -f alloca.h-t alloca.h
/bin/mkdir -p arpa
rm -f arpa/inet.h-t arpa/inet.h && \
{ echo '/* DO NOT EDIT! GENERATED AUTOMATICALLY! */'; \
  sed -e 's|@'GUARD_PREFIX'@|GL|g' \
      -e 's|@'INCLUDE_NEXT'@|include_next|g' \
      -e 's|@'PRAGMA_SYSTEM_HEADER'@|#pragma GCC system_header|g' \
      -e 's|@'PRAGMA_COLUMNS'@|g' \
      -e 's|@'HAVE_FEATURES_H'@|1|g' \
      -e 's|@'NEXT_ARPA_INET_H'@|<arpa/inet.h>|g' \
      -e 's|@'HAVE_ARPA_INET_H'@|1|g' \
      -e 's|@'GNULIB_INET_NTOP'@|1|g' \
      -e 's|@'GNULIB_INET_PTON'@|0|g' \
      -e 's|@'HAVE_DECL_INET_NTOP'@|1|g' \
      -e 's|@'HAVE_DECL_INET_PTON'@|1|g' \
      -e 's|@'REPLACE_INET_NTOP'@|0|g' \
      -e 's|@'REPLACE_INET_PTON'@|0|g' \
      -e '/definitions of _GL_FUNCDECL_RPL/r c++defs.h' \
      -e '/definition of _GL_ARG_NONNULL/r arg-nonnull.h' \
      -e '/definition of _GL_WARN_ON_USE/r warn-on-use.h' \
      < ./arpa/inet.in.h; \
} > arpa/inet.h-t && \
mv arpa/inet.h-t arpa/inet.h
rm -f configmake.h-t && \
{ echo '/* DO NOT EDIT! GENERATED AUTOMATICALLY! */'; \
```



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← → ↻ 127.0.0.1/nagios/ ⌵ ⌵ ⌵ ⌵ ⌵ Relaunch to update

Nagios®

General

- Home
- Documentation

Current Status

- Tactical Overview
- Map (Legacy)
- Hosts
- Services
- Host Groups
- Summary
- Grid
- Service Groups
- Summary
- Grid

Problems

- Services (Unhandled)
- Hosts (Unhandled)
- Network Outages

Quick Search:

Reports

- Availability
- Trends (Legacy)
- Alerts
- History
- Summary
- History (Legacy)
- Notifications
- Event Log

System

- Comments
- Downtime
- Process Info
- Performance Info
- Scheduling Queue
- Configuration

Nagios® Core

✓ Daemon running with PID 1245

Nagios® Core™
Version 4.4.3
January 15, 2019
Check for updates

A new version of Nagios Core is available!
Visit nagios.org to download Nagios 4.5.0.

Get Started

- Start monitoring your infrastructure
- Change the look and feel of Nagios
- Extend Nagios with hundreds of add-ons
- 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)

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Conclusion: In this experiment we learnt Continuous monitoring and Installation and configuration of Nagios Core, Nagios Plugins and NRPE (Nagios Remote Plugin Executor) on Linux Machine.

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