

## ASSIGNMENT 9: NagiOS

### Aim- To see Nagios demo

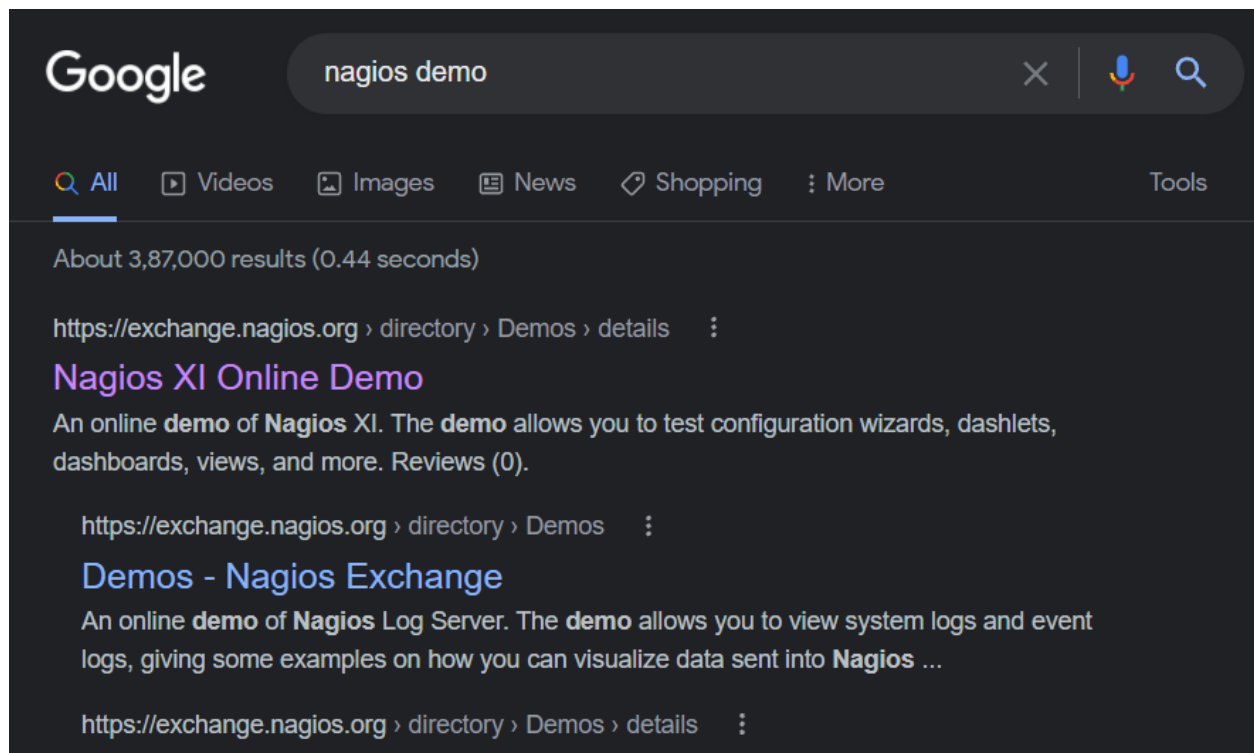
What is Nagios and how it works?

Nagios is an open source monitoring system for computer systems. ... Nagios software runs periodic checks on critical parameters of application, network and server resources. For example, Nagios can monitor memory usage, disk usage, microprocessor load, the number of currently running processes and log files.

Steps-

Go to google.com, Search NagiOs Demo

Click on the first link shown below



Now click on the website-

# Nagios®

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## Directory Tree

### Nagios XI Online Demo

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Favoured: 0

0 votes

Owner **egalstad**

Website **nagiosxi.demos.nagios.com**

Hits 141800

### Search Exchange

Search

Advanced Search

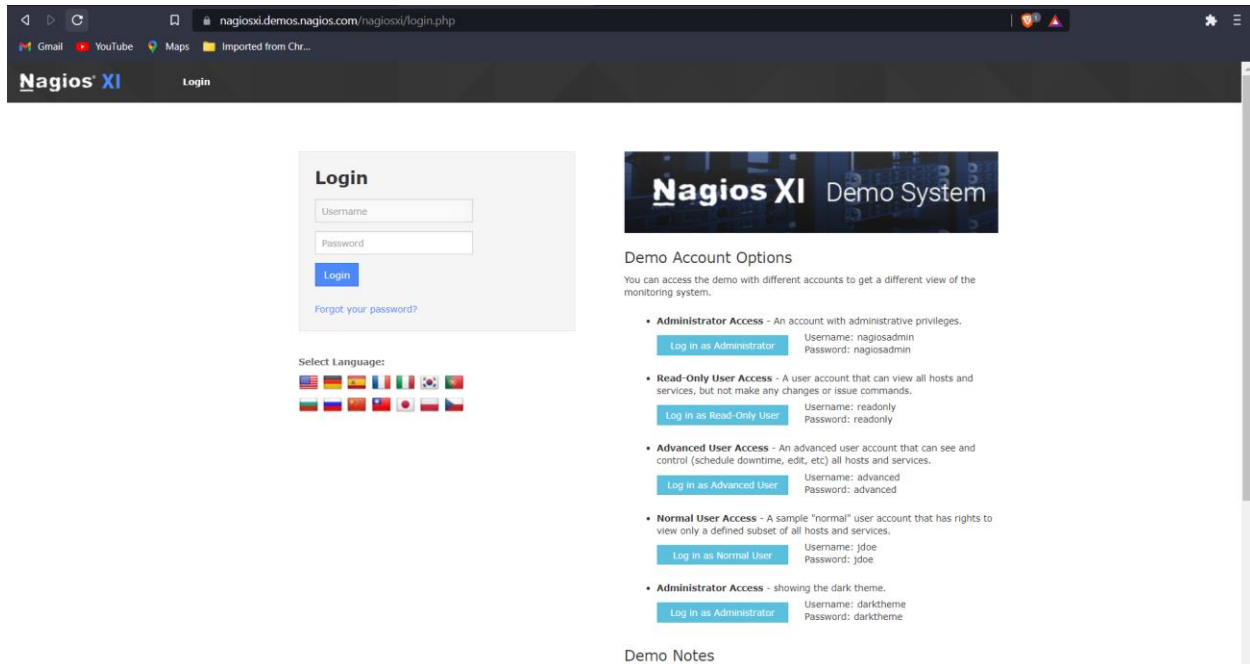
### Search All Sites

Go

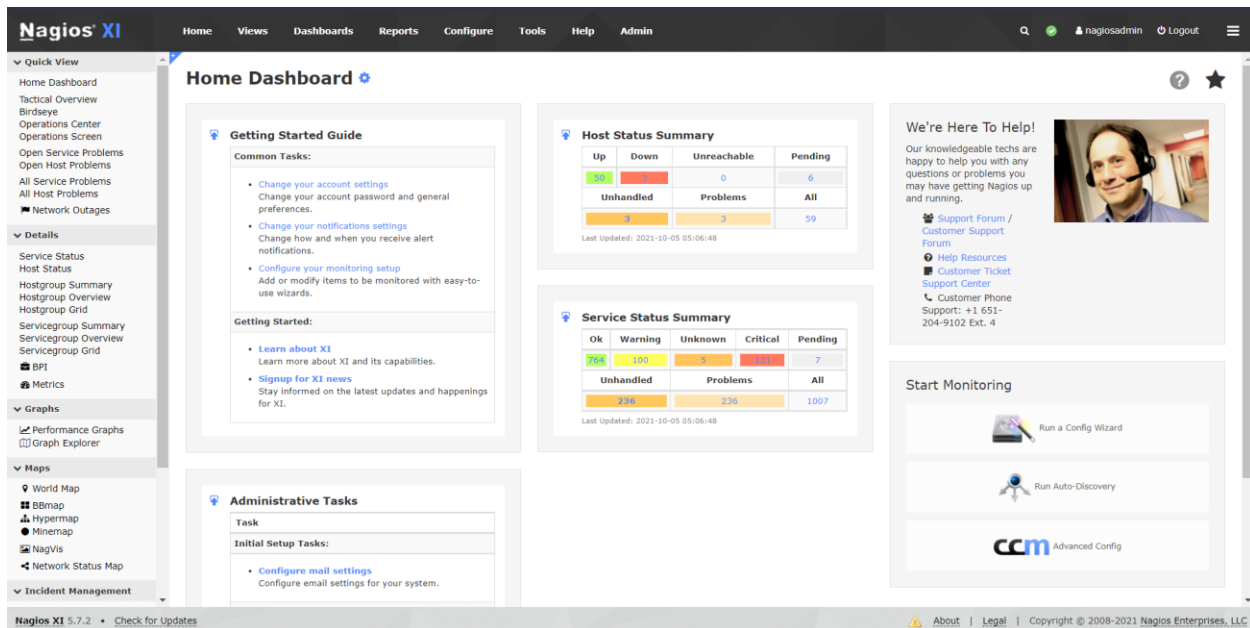
### Nagios Live Webinars

Let our experts show you how Nagios can help your organization.

Now click on login as administrator



It will have interface like this



Now click on Host status-

The screenshot displays the Nagios XI 5.7.2 web interface. The top navigation bar includes links for Home, Views, Dashboards, Reports, Configure, Tools, Help, and Admin. The left sidebar contains a 'Quick View' section with links to Home Dashboard, Tactical Overview, Birdseye, Operations Center, Operations Screen, Open Service Problems, Open Host Problems, All Service Problems, All Host Problems, and Network Outages. Below this is a 'Details' section with links to Service Status, Host Status, Hostgroup Summary, Hostgroup Overview, Hostgroup Grid, Servicegroup Summary, Servicegroup Overview, Servicegroup Grid, BPI, and Metrics. The 'Graphs' section includes Performance Graphs and Graph Explorer. The 'Maps' section includes World Map, BMap, Hypermap, Minemap, NagVis, and Network Status Map. The 'Incident Management' section is also visible.

### Host Status

All hosts

#### Host Status Summary

Up	Down	Unreachable	Pending
55	7	0	6
Unhandled		Problems	All
3		3	59

Last Updated: 2021-10-05 05:07:25

#### Service Status Summary

Ok	Warning	Unknown	Critical	Pending
100	5	101	7	
Unhandled		Problems	All	
236		236	1007	

Last Updated: 2021-10-05 05:07:25

Showing 1-59 of 59 total records

Page 1 of 1 1000 Per Page Go

Host	Status	Duration	Attempt	Last Check	Status Information
europa.nagios.local	Down	426d 19h 2m 42s	5/5	2021-10-05 05:04:53	CRITICAL - 192.168.4.54: Host unreachable @ 192.168.5.66: rta nan, lost 100%
www.acme.com	Down	1190d 17h 28m 49s	5/5	2021-10-05 05:05:20	CRITICAL - 216.27.178.28: rta nan, lost 100%
www.chaoticmoon.com	Down	851d 16h 42m 45s	5/5	2021-10-05 05:05:50	check_http: Invalid hostname/address - www.chaoticmoon.com
Firewall	Up	1190d 17h 28m 11s	1/10	2021-10-05 05:02:49	OK - 127.0.0.1 rta 0.020ms lost 0%
Log-Server.nagios.local	Up	2275d 8h 1m 2s	1/5	2021-10-05 05:05:22	OK - localhost rta 0.022ms lost 0%
Log-Server2.nagios.local	Up	1180d 14h 8m 21s	1/5	2021-10-05 05:06:53	OK - localhost rta 0.026ms lost 0%
NOAA	Up	3763d 12h 56m 36s	1/3	2012-01-02 09:43:01	HTTP OK HTTP/1.1 200 OK - 99753 bytes in 0.478 seconds
Netw	Pending	N/A	1/5	N/A	No check results for host yet...
Network-Analyzer.nagios	Pending	N/A	1/5	N/A	No check results for host yet...
Network-Analyzer.nagios.local	Up	2275d 7h 58m 0s	1/5	2021-10-05 05:07:12	OK - localhost rta 0.021ms lost 0%
Network-Analyzer2	Pending	N/A	1/5	N/A	No check results for host yet...
Network-Analyzer2.nagios.local	Up	2275d 7h 57m 50s	1/5	2021-10-05 05:06:42	OK - localhost rta 0.021ms lost 0%
Router	Up	1190d 17h 31m 9s	1/10	2021-10-05 05:03:25	OK - 127.0.0.1 rta 0.020ms lost 0%
router.enterprise.nagios.local	Up	1200d 17h 31m 43s	1/5	2021-10-05 05:03:54	OK - 192.168.5.4 rta 0.173ms lost 0%

Nagios XI 5.7.2 Check for Updates

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In the above image one can see Host Status Summary and Service Status Summary also how many host are up, down and also errors in detail

Now click on Host Group Status.

The screenshot displays the Nagios XI 5.7.2 web interface. The top navigation bar includes links for Home, Views, Dashboards, Reports, Configure, Tools, Help, and Admin. The left sidebar contains a 'Quick View' section with links to Home Dashboard, Tactical Overview, Birdseye, Operations Center, and Operations Screen, as well as 'Open Service Problems', 'Open Host Problems', 'All Service Problems', 'All Host Problems', and 'Network Outages'. Below this is a 'Details' section with links to Service Status, Host Status, Hostgroup Summary, Hostgroup Overview, Hostgroup Grid, Servicegroup Summary, Servicegroup Overview, Servicegroup Grid, BPI, and Metrics. The 'Maps' section includes World Map, BBmap, Hypermap, Ninemap, NagVis, and Network Status Map. The 'Incident Management' section is also visible.

### Host Group Status

Summary View

**Host Status Summary**

Up	Down	Unreachable	Pending
50	1	0	6
Unhandled		Problems	All
3		3	59

Last Updated: 2021-10-05 05:09:55

**Service Status Summary**

Ok	Warning	Unknown	Critical	Pending
25	99	5	103	7
Unhandled		Problems	All	
239		239	1007	

Last Updated: 2021-10-05 05:09:55

#### Status Summary For All Host Groups

Host Group	Hosts	Services
Monitoring Servers (Monitoring Servers)	5 Up	99 OK 14 Warning 0 Critical 6 Pending
Hostgroup Two (hg2)	1 Up 1 Down	31 OK 4 Warning 2 Unknown 4 Critical
Some Other Hostgroup (hg3)	2 Up	11 OK 1 Warning 0 Critical 0 Pending
Linux Servers (linux-servers)	11 Up	219 OK 27 Warning 2 Unknown 0 Critical
Network Devices (network-devices)	7 Up	215 OK 35 Warning 0 Critical 0 Pending

Nagios XI 5.7.2 • Check for Updates

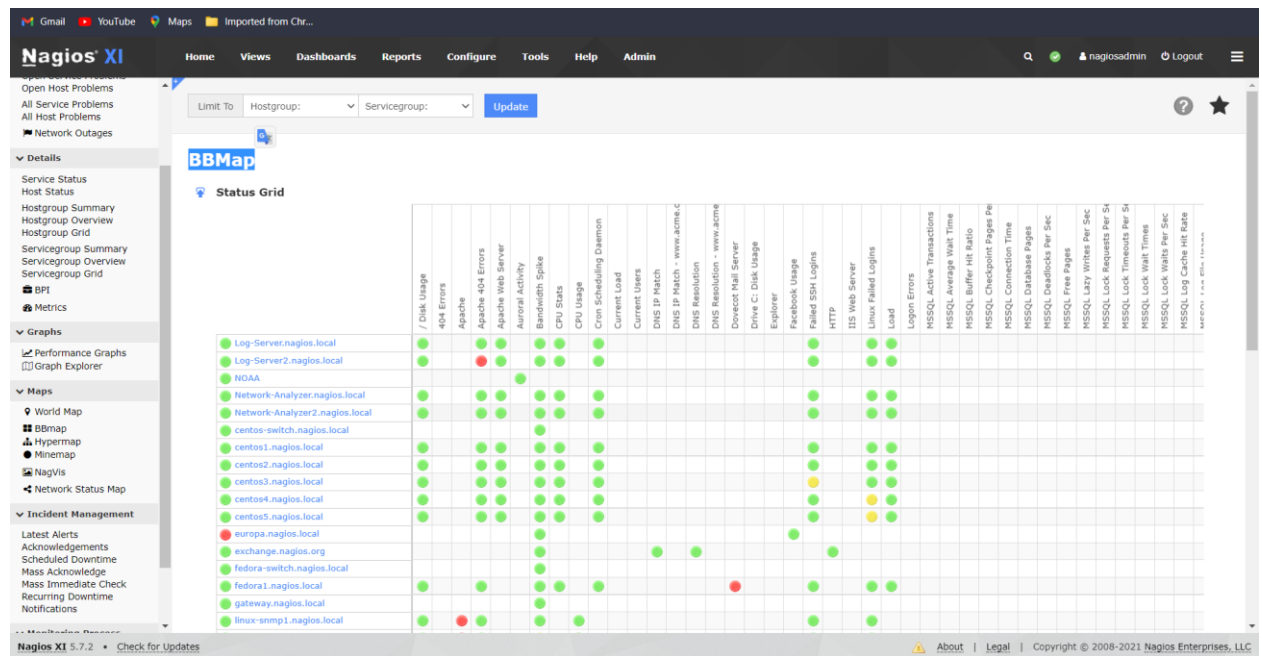
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Here we can see Status Summary For All Host Groups

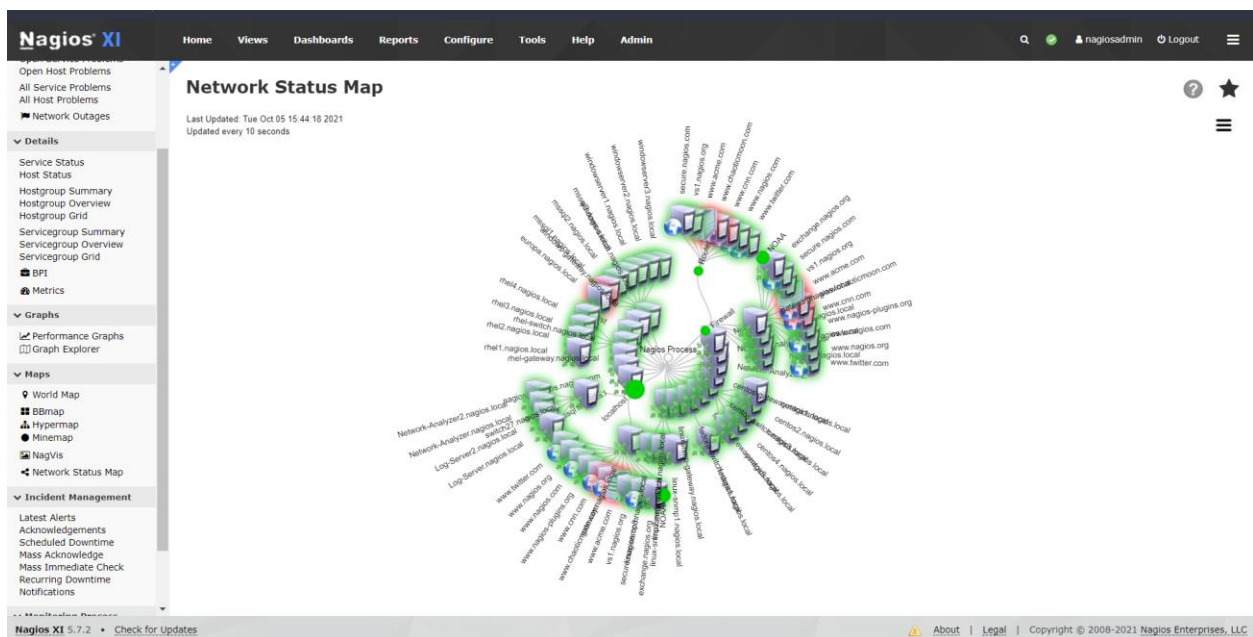
Now we click on BBMap

In this we can see status of following stuff in each host-

/ Disk Usage
404 Errors
Apache
Apache 404 Errors
Apache Web Server
Auroral Activity
Bandwidth Spike
CPU Stats
CPU Usage
Cron Scheduling Daemon
Current Load
Current Users
DNS IP Match
DNS IP Match - www.acme.c
DNS Resolution
DNS Resolution - www.acme
Dovecot Mail Server
Drive C: Disk Usage
Explorer
Facebook Usage
Failed SSH Logins
HTTP
IIS Web Server
Linux Failed Logins
Load
Logon Errors
MSSQL Active Transactions
MSSQL Average Wait Time
MSSQL Buffer Hit Ratio
MSSQL Checkpoint Pages Pe
MSSQL Connection Time
MSSQL Database Pages
MSSQL Deadlocks Per Sec
MSSQL Free Pages
MSSQL Lazy Writes Per Sec
MSSQL Lock Requests Per Se
MSSQL Lock Timeouts Per Se
MSSQL Lock Wait Times
MSSQL Lock Waits Per Sec
MSSQL Log Cache Hit Rate
MSSQL Log File Usage



Now we have Network status map which is graphical representation of the network status



## Aim- to install NagiOS on Linux

Login to Aws

Create Ec2 instances on Aws account of any linux os

Then Run the following command in SS

```
ubuntu@ip-172-31-13-219:~$ sudo apt update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease [101 kB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [8628 kB]
Get:6 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [909 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/universe Translation-en [5124 kB]
```

cd /usr/src/

sudo wget https://github.com/NagiosEnterprises/nagioscore/archive/nagios-4.4.2.tar.gz

```
ubuntu@ip-172-31-13-219:/usr/src$ sudo wget https://github.com/NagiosEnterprises/nagioscore/archive/nagios-4.4.2.tar.gz
--2021-10-05 10:24:05-- https://github.com/NagiosEnterprises/nagioscore/archive/nagios-4.4.2.tar.gz
Resolving github.com (github.com)... 13.234.176.102
Connecting to github.com (github.com)|13.234.176.102|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://codeload.github.com/NagiosEnterprises/nagioscore/tar.gz/nagios-4.4.2 [following]
--2021-10-05 10:24:05-- https://codeload.github.com/NagiosEnterprises/nagioscore/tar.gz/nagios-4.4.2
Resolving codeload.github.com (codeload.github.com)... 13.233.43.20
Connecting to codeload.github.com (codeload.github.com)|13.233.43.20|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [application/x-gzip]
Saving to: 'nagios-4.4.2.tar.gz'

nagios-4.4.2.tar.gz [ <=> ] 10.78M 16.9MB/s in 0.6s
2021-10-05 10:24:06 (16.9 MB/s) - 'nagios-4.4.2.tar.gz' saved [11301457]
```

sudo tar xzf nagios-\*.tar.gz

cd nagioscore-nagios-\*/

```
ubuntu@ip-172-31-13-219:/usr/src$ cd nagioscore-nagios-*/
ubuntu@ip-172-31-13-219:/usr/src/nagioscore-nagios-4.4.2$
```

Now finally run the following command



```
sudo ./configure --with-httpd-conf=/etc/apache2/sites-enabled
```

if error comes install c compiler on the linux

by following this link

<https://linuxize.com/post/how-to-install-gcc-compiler-on-ubuntu-18-04/>

Finally-

```
4. Rerun the configure script.

NOTE: If you can't get the configure script to recognize the GD libs
on your system, get over it and move on to other things. The
CGIs that use the GD libs are just a small part of the entire
Nagios package. Get everything else working first and then
revisit the problem. Make sure to check the nagios-users
mailing list archives for possible solutions to GD library
problems when you resume your troubleshooting.

*****

checking ltdl.h usability... no
checking ltdl.h presence... no
checking for ltdl.h... no
checking dlfcn.h usability... yes
checking dlfcn.h presence... yes
checking for dlfcn.h... yes
checking for dlopen in -ldl... yes
checking for extra flags needed to export symbols... -Wl,-export-dynamic
checking for linker flags for loadable modules... -shared
checking for traceroute... no
checking for type va_list... yes
checking for perl... /usr/bin/perl
checking for unzip... no
```

Now let us install plugins by

```
sudo wget -O nagios-plugins.tar.gz https://github.com/nagios-plugins/nagios-plugins/archive/release-2.2.1.tar.gz
```

then

```
sudo tar xzf nagios-plugins.tar.gz
```

then

```
cd nagios-plugins-release-2.2.1
```

finally start and then check status of nagios

```
sudo systemctl start nagios
```

```
sudo systemctl status nagios
```

```
* nagios.service - Nagios Core 4.4.2
   Loaded: loaded (/lib/systemd/system/nagios.service; enabled; vendor preset: enable
   Active: active (running) since Fri 2018-11-16 14:54:21 PST; 1s ago
     Docs: https://www.nagios.org/documentation
  Process: 18294 ExecStopPost=/bin/rm -f /usr/local/nagios/var/rw/nagios.cmd (code=ex
  Process: 18293 ExecStop=/bin/kill -s TERM ${MAINPID} (code=exited, status=0/SUCCESS
  Process: 18315 ExecStart=/usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nag
  Process: 18313 ExecStartPre=/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/
 Main PID: 18325 (nagios)
    Tasks: 6 (limit: 2319)
   CGroup: /system.slice/nagios.service
```

