

# Assignment 8

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Aim: To understand Continuous Monitoring using Nagios.

LO Mapped: LO5

Theory:

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

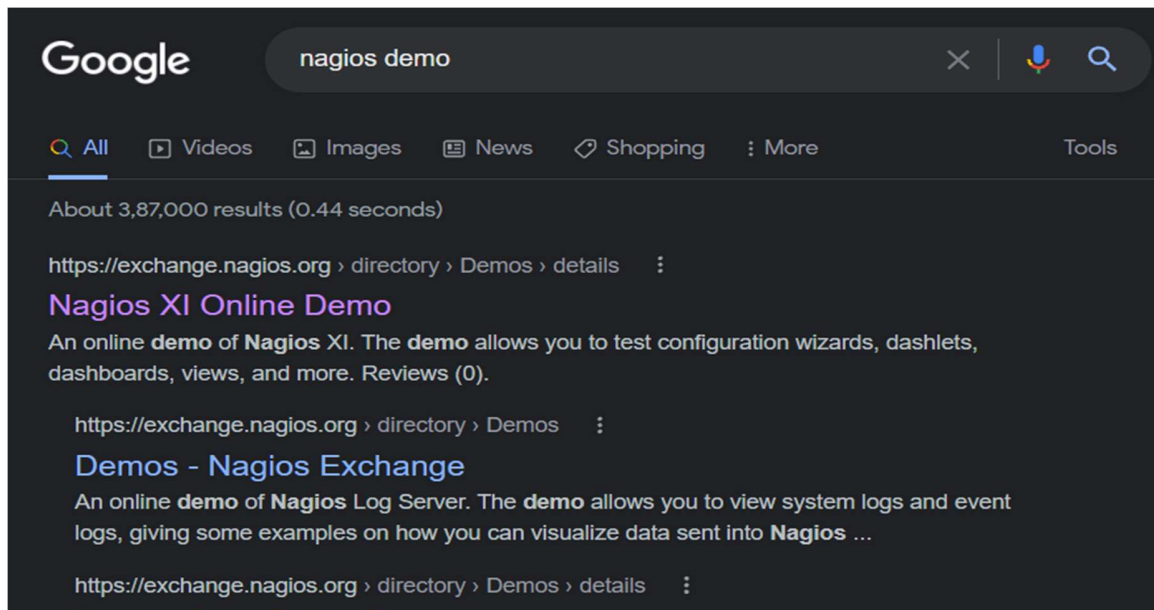
sudo systemctl status nagios

```
* 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
```

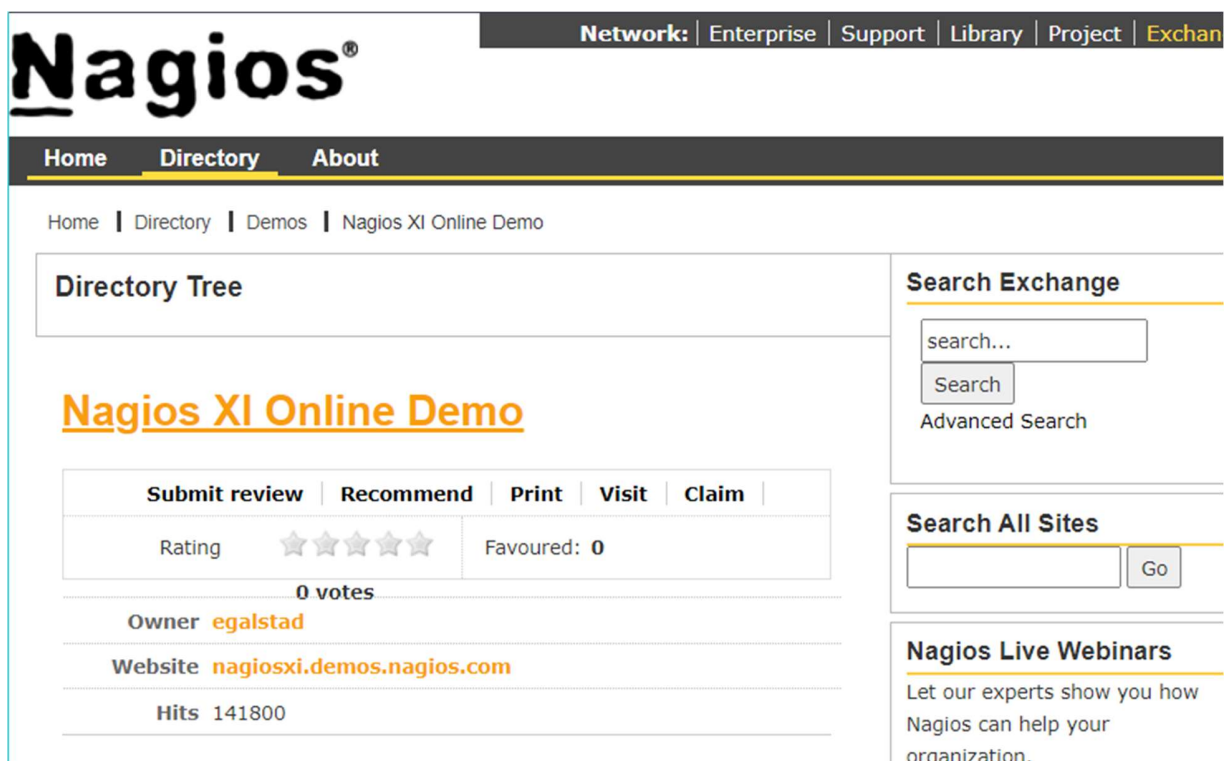
Steps-

Go to [google.com](https://www.google.com), Search NagiOs Demo

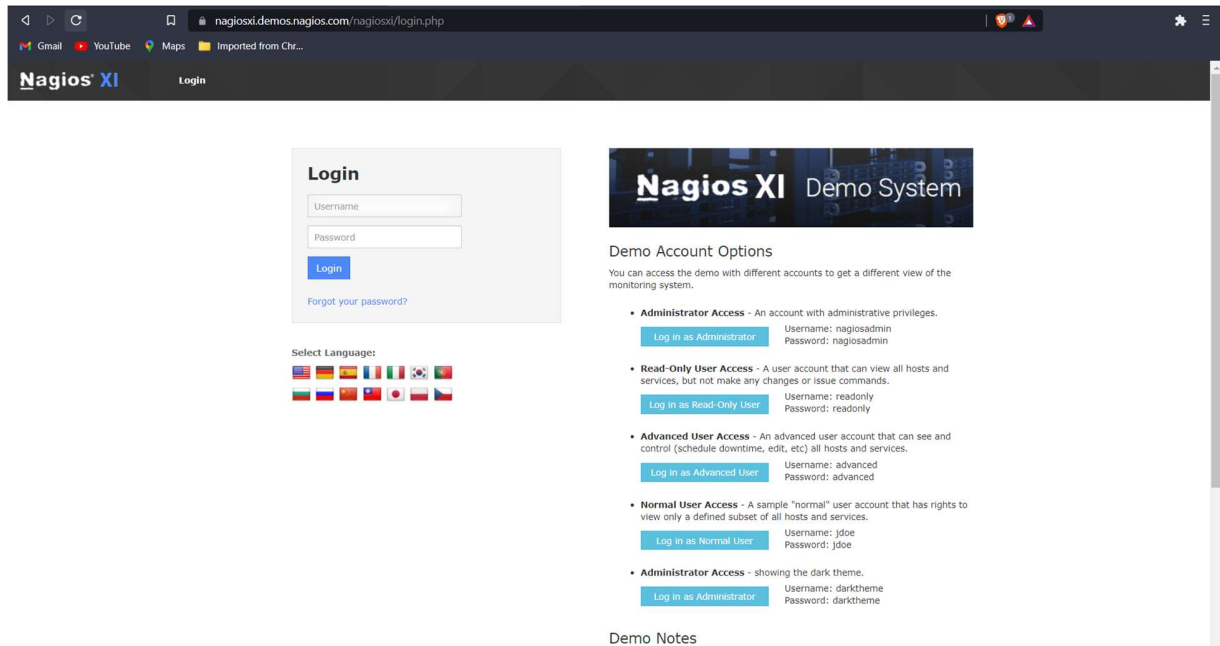
Click on the first link shown below



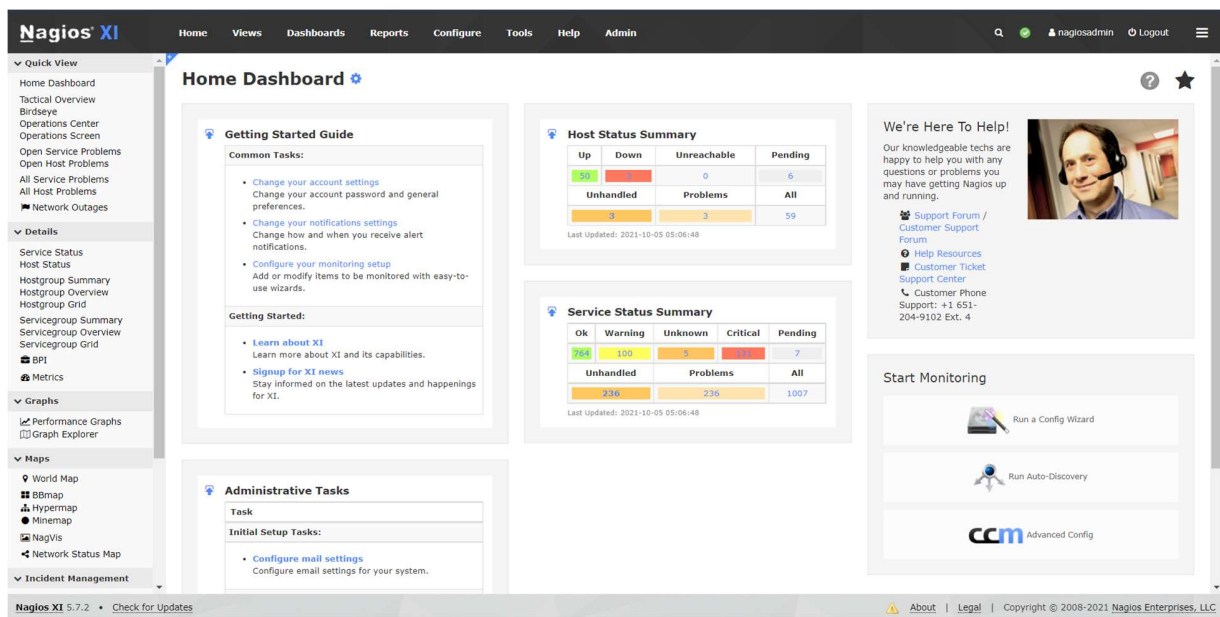
Now click on the website-



Now click on login as administrator



It will have interface like this



Now click on Host status-

The screenshot shows the Nagios XI interface with the 'Host Status' page selected. The page displays a list of hosts and their current status. The 'Host Status Summary' and 'Service Status Summary' are visible at the top right.

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 0.028ms 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%

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.

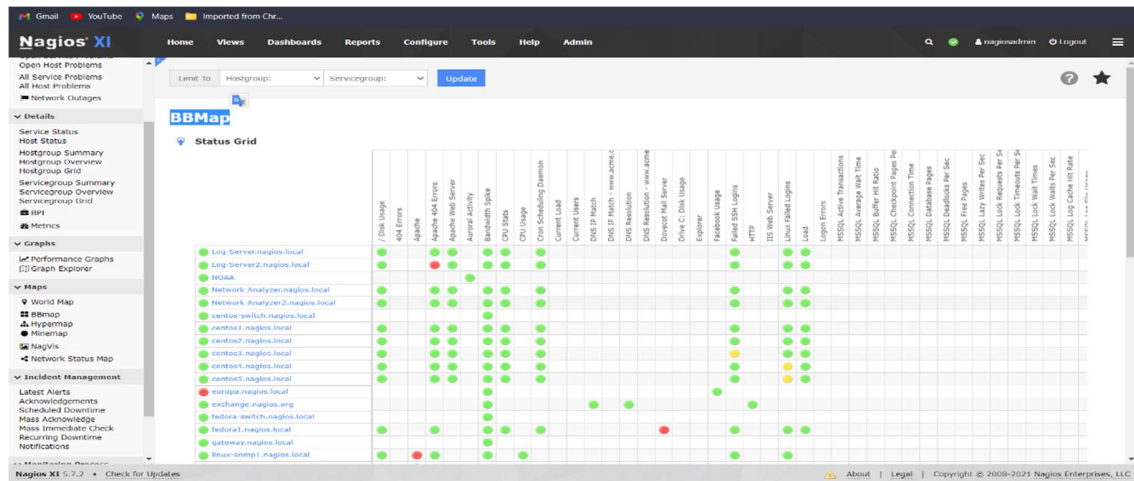
The screenshot shows the Nagios XI interface with the 'Host Group Status' page selected. The page displays a summary view of host groups and their status. The 'Host Status Summary' and 'Service Status Summary' are visible at the top right.

Host Group	Hosts	Services
Monitoring Servers (Monitoring Servers)	5 Up	93 OK 14 Warning 0 Critical
Hostgroup Two (hg2)	1 Up 1 Down	11 OK 4 Warning 2 Unknown 0 Critical
Some Other Hostgroup (hg3)	2 Up	11 OK 1 Warning 0 Critical
Linux Servers (linux-servers)	11 Up	218 OK 27 Warning 2 Unknown 0 Critical
Network Devices (network-devices)	7 Up	215 OK 35 Warning 0 Critical

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-



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

