

Assignment No 8

Aim: To understand demo of Nagios and open-source tools.

LO1: To understand the fundamentals of Cloud Computing and be fully proficient with Cloud based DevOps solution deployment options to meet your business requirements.

LO5: To use Continuous Monitoring Tools to resolve any system errors (low memory, unreachable server etc.) before they have any negative impact on the business productivity.

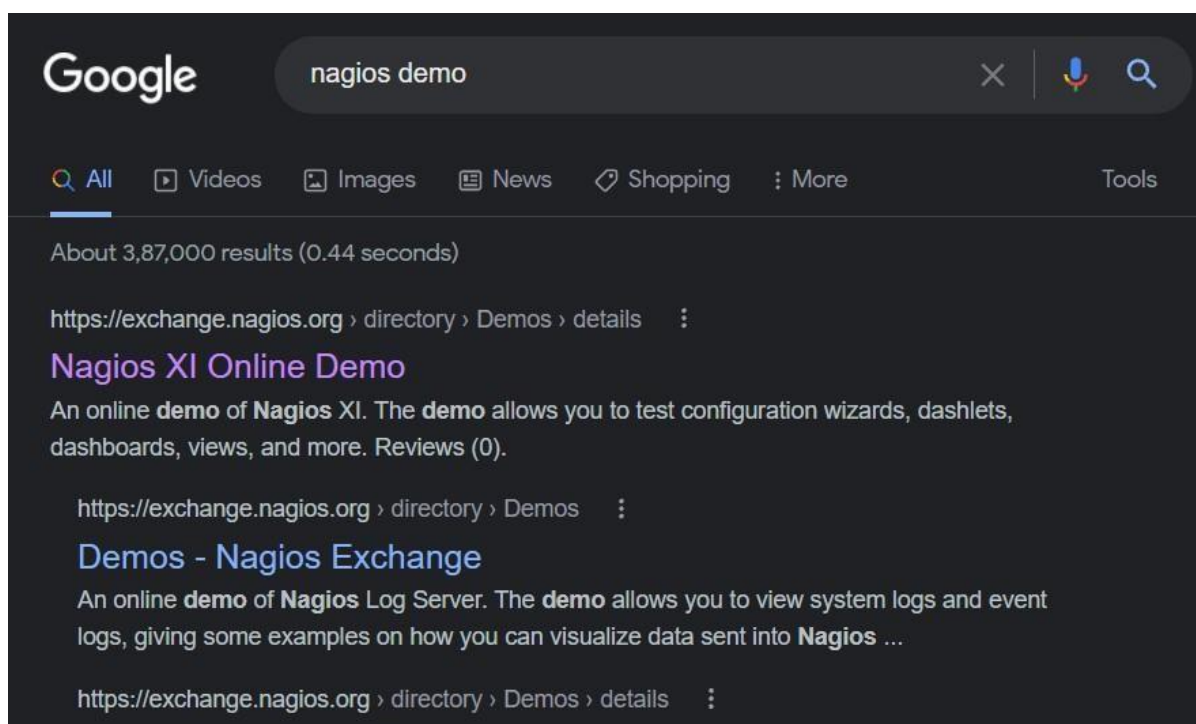
Theory:

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



Now click on the website-

Nagios

Network | Enterprise | Support | Library | Project | Exchange

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Home | Directory | Demos | Nagios XI Online Demo

Directory Tree

Nagios XI Online Demo

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Owner: **egalstad**

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

Hits: 141800

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Nagios Live Webinars

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

Now click on login as administrator

Nagios XI Online Demo - Nagios | Login - Nagios XI

nagiosxi.demos.nagios.com/nagiosxi/login.php?redirect=/nagiosxi/index.php%3f&noauth=1

Nagios XI

Login

Login

Username
Password
Login
Forgot your password?

Select Language:

Nagios XI Demo System

Demo Account Options

You can access the demo with different accounts to get a different view of the monitoring system.

- Administrator Access** - An account with administrative privileges.
Log in as Administrator Username: nagiosadmin Password: nagiosadmin
- Read-Only User Access** - A user account that can view all hosts and services, but not make any changes or issue commands.
Log in as Read-Only User Username: readonly Password: readonly
- Advanced User Access** - An advanced user account that can see and control (schedule downtime, edit, etc) all hosts and services.
Log in as Advanced User Username: advanced Password: advanced
- Normal User Access** - A sample "normal" user account that has rights to view only a defined subset of all hosts and services.
Log in as Normal User Username: jdoe Password: jdoe
- Administrator Access** - showing the dark theme.
Log in as Administrator Username: darktheme Password: darktheme

Demo Notes

It will have interface like this

Home Dashboard

Getting Started Guide

Common Tasks:

- Change your account settings
- Change your account password and general preferences.
- Change your notifications settings
- Change how and when you receive alert notifications.
- Configure your monitoring setup
- Add or modify items to be monitored with easy-to-use wizards.

Getting Started:

- Learn about XI
- Learn more about XI and its capabilities.
- Sign up for XI news
- Stay informed on the latest updates and happenings for XI.

Host Status Summary

Up	Down	Unreachable	Pending
132	29	1	0
Unhandled		Problems	
28		110	
		242	

Last Updated: 2023-08-28 00:43:57

Service Status Summary

Ok	Warning	Unknown	Critical	Pending
1267	29	97	1	0
Unhandled		Problems		All
266		583		1850

Last Updated: 2023-08-28 00:43:57

Administrative Tasks

Task

Initial Setup Tasks:

- Configure mail settings
- Configure email settings for your system.

Start Monitoring

- Run a Config Wizard
- Run Auto-Discovery
- ccm Advanced Config

Now click on Host status-

Host Status

All hosts

Host Status Summary

Up	Down	Unreachable	Pending
132	29	1	0
Unhandled		Problems	
28		110	
		242	

Last Updated: 2023-08-28 00:38:56

Service Status Summary

Ok	Warning	Unknown	Critical	Pending
1267	29	97	1	0
Unhandled		Problems		All
266		583		1850

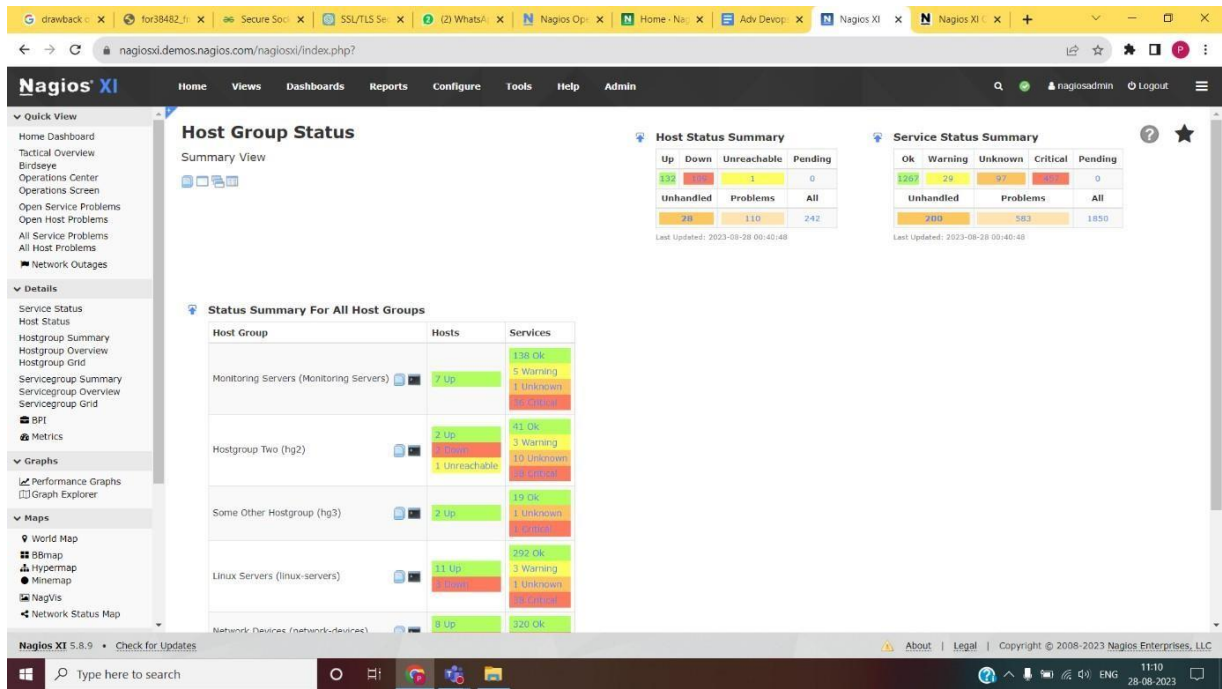
Last Updated: 2023-08-28 00:38:56

Showing 1-242 of 242 total records

Page 1 of 1 1000 Per Page Go

Host	Status	Duration	Attempt	Last Check	Status Information
102.68.102.38	Up	69d 12h 50m 9s	1/5	2023-08-28 00:38:55	OK - 102.68.102.38 rta 214.586ms lost 0%
www.google.com	Up	265d 20h 51m 41s	1/5	2023-08-28 00:38:52	TCP OK - 0.962 second response time on www.google.com port 80
localhost2222	Up	265d 20h 51m 44s	1/5	2023-08-28 00:38:52	OK - localhost rta 0.067ms lost 0%
dns.google	Up	88d 14h 27m 54s	1/5	2023-08-28 00:38:52	OK - 8.8.8.8 rta 1.267ms lost 0%
bbqsnmp	Down	244d 0h 19m 10s	5/5	2023-08-28 00:38:52	check_icmp: Failed to resolve bbqsnmp: Name or service not known
10.0.0.0.0	Down	241d 10h 33m 58s	5/5	2023-08-28 00:38:52	check_icmp: Failed to resolve 10.0.0.0.0: Name or service not known
9a34-181-162-10-91.sa.ngrok.io	Up	75d 6h 52m 59s	1/5	2023-08-28 00:38:51	TCP OK - 0.033 second response time on 9a34-181-162-10-91.sa.ngrok.io port 443
pascalsene.com	Up	30m 15s	1/5	2023-08-28 00:38:50	OK - pascalsene.com rta 124.511ms lost 0%
monster01	Up	75d 6h 52m 3s	1/5	2023-08-28 00:38:49	TCP OK - 0.033 second response time on e0a3-181-162-10-91.sa.ngrok.io port 80
www.emol.cl	Up	76d 14h 30m 45s	1/5	2023-08-28 00:38:49	TCP OK - 0.129 second response time on www.emol.cl port 80
test	Down	332d 1h 50m 48s	5/5	2023-08-28 00:38:43	CRITICAL - 192.138.69.78: rta nan, lost 100%
voip1.traci.net	Down	233d 13h 30m 8s	5/5	2023-08-28 00:38:43	CRITICAL - 64.139.129.91: rta nan, lost 100%
trello.com	Down	327d 18h 23m 5s	5/5	2023-08-28 00:38:41	CRITICAL - 104.192.142.9: rta nan, lost 100%
siga.uem.mz	Up	30m 46s	1/5	2023-08-28 00:38:41	HTTP WARNING: HTTP/1.1 404 Not Found - 886 bytes in 0.498 second response time

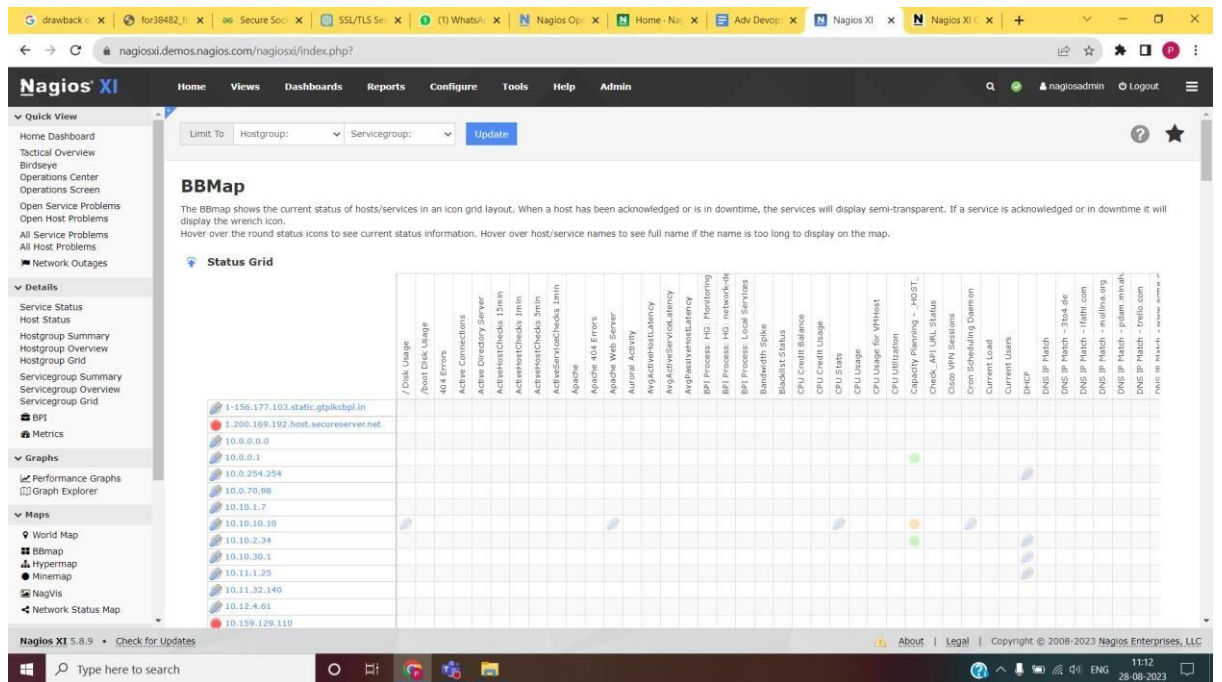
In the above image one can see Host Status Summary and Service Status Summary also how many host are up, down and also errors in detail Now click on Host Group Status.



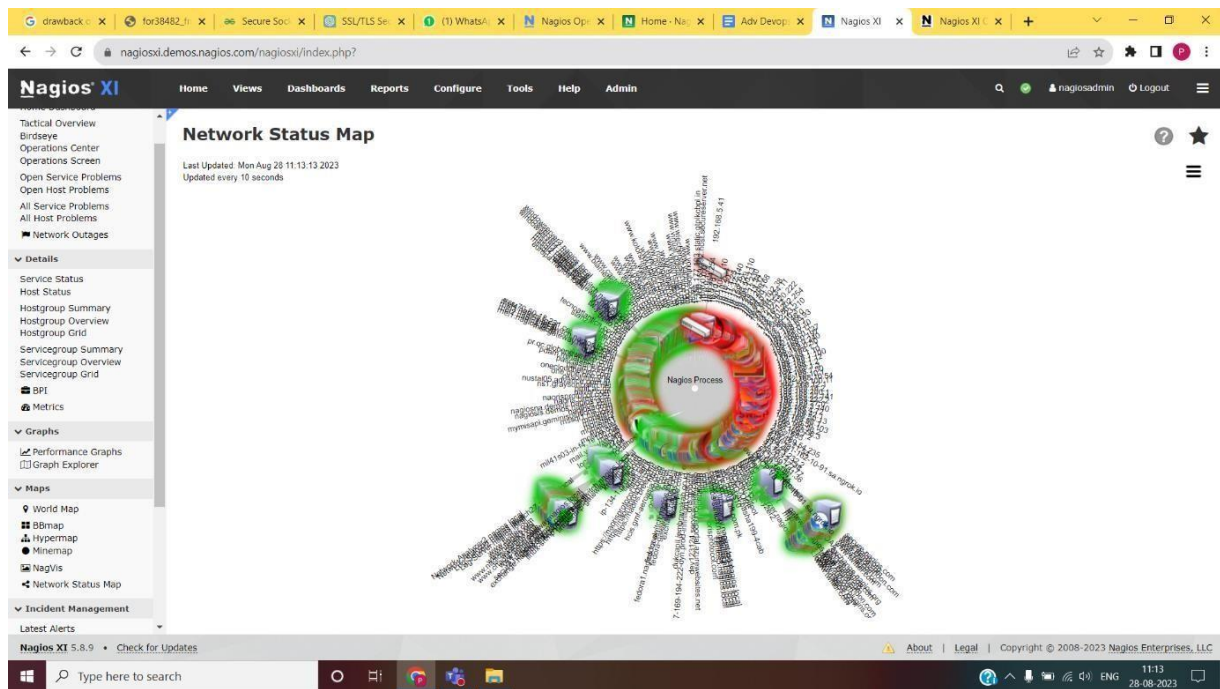
Here we can see Status Summary for All Host Groups

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



CONCLUSION:

Hence, we understood Nagios. It is a powerful monitoring tool, provided valuable insights into its capabilities and benefits for effective system monitoring and management.