

## Experiment 8

### **Aim:-**

To understand continuous monitoring using Nagios

### **Theory:-**

Nagios is an open-source monitoring system that provides monitoring of services, applications, and network resources. It is designed to alert system administrators about potential issues before they become critical problems. Nagios allows you to monitor the entire IT infrastructure, including servers, switches, applications, and services. It provides a comprehensive monitoring solution for both small and large organizations. Some key features and capabilities of Nagios include:

**Monitoring Capabilities:** Nagios can monitor a wide variety of network services including SMTP, POP3, HTTP, NNTP, ICMP, SNMP, FTP, SSH, and many more.

**Alerting and Notification:** It provides alerting and notification functionalities to notify system administrators when something goes wrong. Nagios can send alerts via email, SMS, or other methods to ensure that the right people are notified in real-time.

**Plugin Architecture:** Nagios has a modular architecture that allows users to develop their plugins and addons to monitor specific devices and services that are not covered by default.

**Customizable Dashboards and Reports:** Nagios offers customizable dashboards and reporting capabilities that provide insights into the performance and health of the monitored resources.

**Scalability and Flexibility:** Nagios can scale to monitor complex, large-scale IT infrastructures. It is highly flexible and can be customized to meet specific monitoring and alerting requirements.

**Extensibility:** Nagios can be extended through various addons and plugins, allowing it to integrate with other tools and services, and enabling the monitoring of a wide range of devices and applications.

**Historical Monitoring and Trend Analysis:** Nagios can store historical data and provide trend analysis, allowing system administrators to identify patterns and plan for future infrastructure needs.

**Community Support and Active Development:** Being an open-source project, Nagios has a vibrant community that contributes to its development and support. This community-driven approach ensures that the software remains updated and robust.

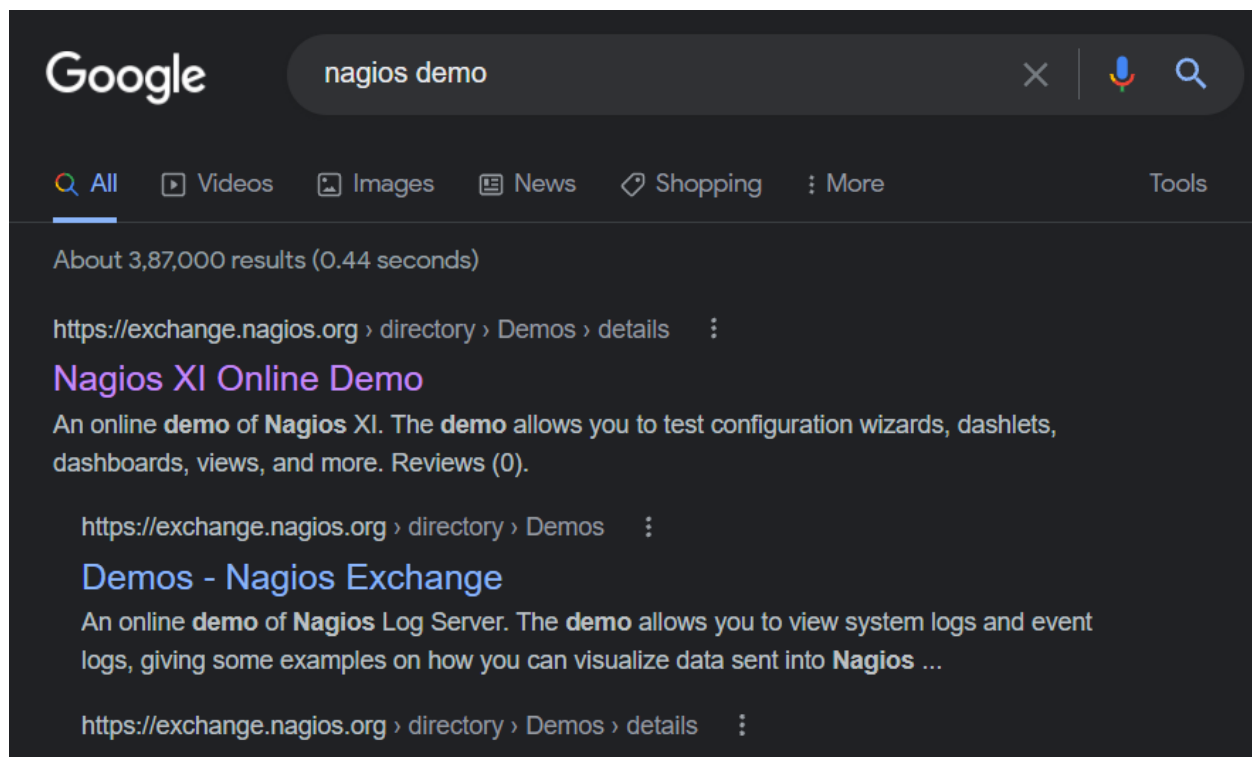
**Centralized Monitoring:** Nagios provides a centralized view of the entire IT infrastructure, allowing administrators to have a comprehensive overview of the health and performance of all monitored resources from a single location.

**Integration with Third-Party Tools:** Nagios can integrate with various third-party tools and services, making it a versatile monitoring solution that can fit into different IT ecosystems and workflows.

## Steps :-

1) Go to google.com, Search Nagios Demo

Click on the first link shown below



2) Now click on the website-

## Directory Tree

## Nagios XI Online Demo

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## Nagios Live Webinars

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

### 3) Now click on login as administrator

nagiosxi.demos.nagios.org/nagiosxi/login.php

GmailYouTubeMapsImported from Chr...

Nagios XILogin

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

**Nagios XI** Home Views Dashboards Reports Configure Tools Help Admin

**Home Dashboard**

**Getting Started Guide**

**Common Tasks:**

- Change your account settings
- Change your notifications settings
- Configure your monitoring setup

**Getting Started:**

- Learn about XI
- Signup for XI news

**Administrative Tasks**

**Task**

**Initial Setup Tasks:**

- Configure mail settings

**Host Status Summary**

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

Last Updated: 2021-10-05 05:06:48

**Service Status Summary**

Ok	Warning	Unknown	Critical	Pending
236	100	5	107	7
Unhandled		Problems	All	
236		236	1007	

Last Updated: 2021-10-05 05:06:48

**We're Here To Help!**

Our knowledgeable techs are happy to help you with any questions or problems you may have getting Nagios up and running.

- Support Forum / Customer Support Forum
- Help Resources
- Customer Ticket Support Center
- Customer Phone Support: +1 651-204-9102 Ext. 4

**Start Monitoring**

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

Nagios XI 5.7.2 • Check for Updates

**Nagios XI** Home Views Dashboards Reports Configure Tools Help Admin

**Host Status**

All hosts

**Host Status Summary**

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

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

**Service Status Summary**

Ok	Warning	Unknown	Critical	Pending
236	100	5	107	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%
router2.nagios.local	Up	1204d 12h 31m 13s	1/5	2021-10-05 05:03:54	OK - 192.168.5.1 rta 0.132ms lost 0%

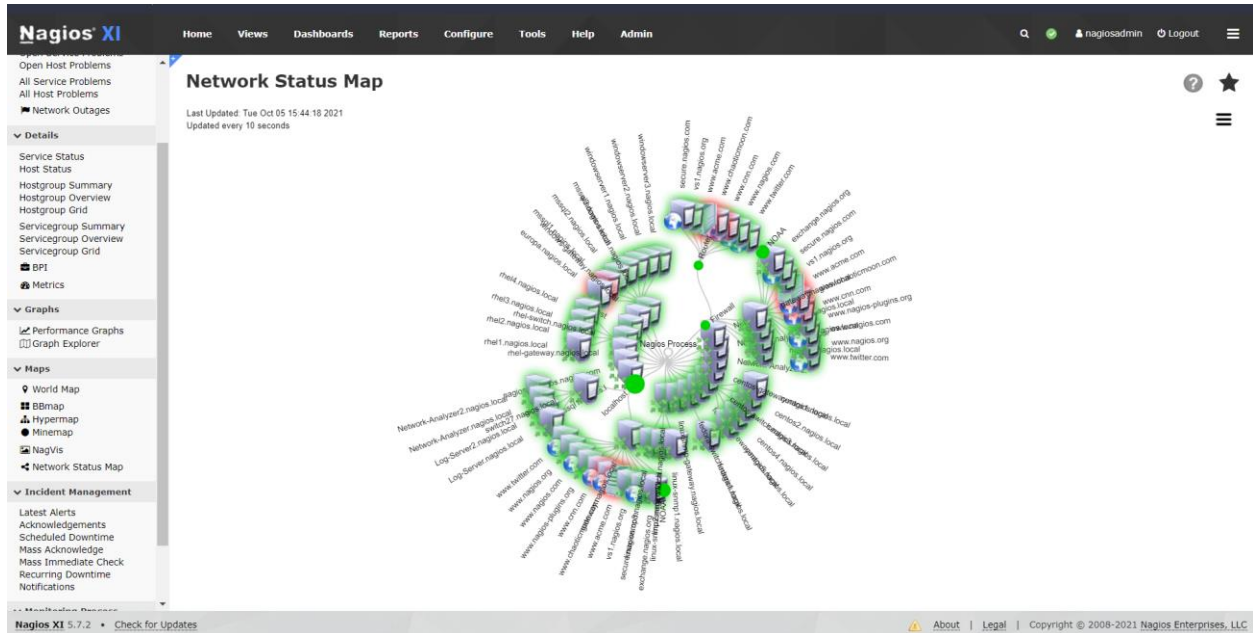
Nagios XI 5.7.2 • Check for Updates

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

5) Now click on Host Group Status.



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



## Conclusion:-

Continuous monitoring with Nagios enables proactive detection of system issues, ensuring minimal downtime and enhanced operational efficiency. Through customizable alerts and comprehensive reporting, Nagios empowers administrators to maintain optimal performance across diverse IT environments. Its scalable architecture and robust community support make it an invaluable tool for streamlined and centralized monitoring.