

**ASSIGNMENT-8**

**AIM:-**To understand continuous monitoring using Nagios

**LO MAPPED:- LO1, LO5**

**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.

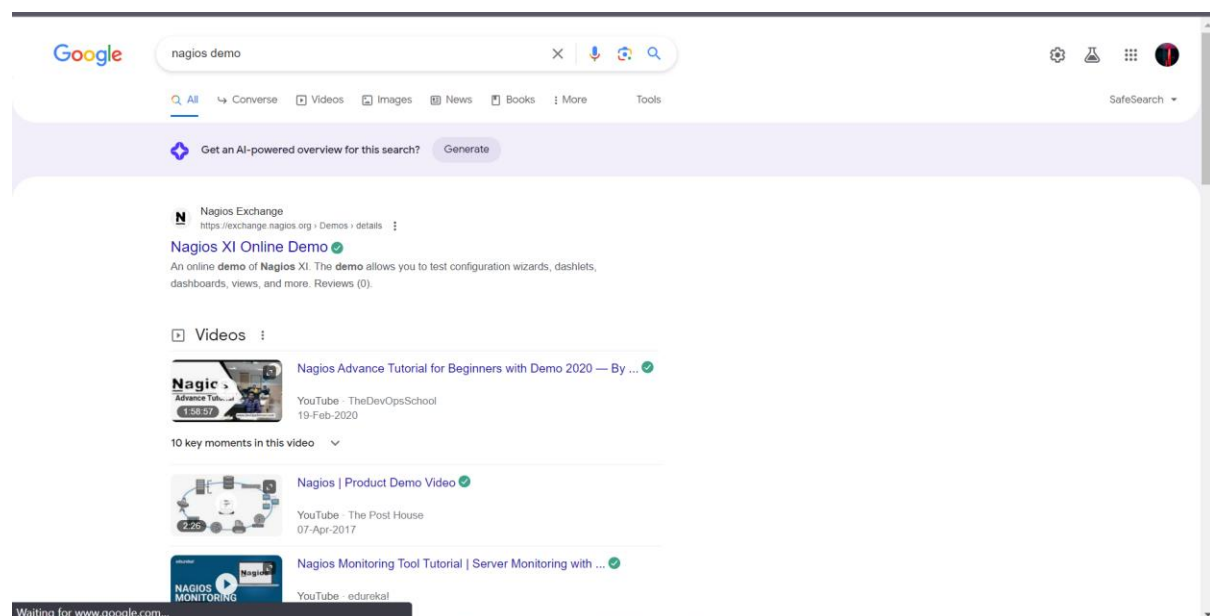
**Community Support and Active Development:** Being an open-source project, Nagios has a vibrant community that contributes to its development and support. This community-driven approach ensures that the software remains updated and robust.

**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-**

**Login**

- **Normal User Access** - A sample "normal" user account that has rights to view only a defined subset of all hosts and services

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

Quick View: Home Dashboard, Tactical Overview, Birdseye, Operations Center, Operations Screen, Open Service Problems, Open Host Problems, All Service Problems, All Host Problems, Network Outages

Details: Service Status, Host Status, Hostgroup Summary, Hostgroup Overview, Hostgroup Grid, Servicegroup Summary, Servicegroup Overview, Servicegroup Grid, BPI, Metrics

Graphs: Performance Graphs, Graph Explorer

Maps: World Map

## 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.
- [Signup for XI news](#)  
Stay informed on the latest updates and happenings for XI.

### Host Status Summary

Up	Down	Unreachable	Pending
136	103	1	0
Unhandled		Problems	
24		106	
		242	

Last Updated: 2023-10-20 14:07:07

### Service Status Summary

Ok	Warning	Unknown	Critical	Pending
1267	30	101	452	0
Unhandled		Problems		All
200		583		1850

Last Updated: 2023-10-20 14:07:08

We're Here To Help!

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Details: Service Status, Host Status, Hostgroup Summary, Hostgroup Overview, Hostgroup Grid, Servicegroup Summary, Servicegroup Overview, Servicegroup Grid, BPI, Metrics

Graphs: Performance Graphs, Graph Explorer

Maps: World Map, Bimap, Hypermap, Minimap, Nagvis, Network Status Map

Incident Management: Latest Alerts, Acknowledgements

## Host Status

All hosts

### Host Status Summary

Up	Down	Unreachable	Pending
136	103	1	0
Unhandled		Problems	
24		107	
		242	

Last Updated: 2023-10-20 14:08:06

### Service Status Summary

Ok	Warning	Unknown	Critical	Pending
1267	30	101	452	0
Unhandled		Problems		All
200		582		1850

Last Updated: 2023-10-20 14:08:07

Showing 1-242 of 242 total records Page 1 of 1 1000 Per Page Go Search...

Host	Status	Duration	Attempt	Last Check	Status Information
www.google.com	Up	319d 10h 20m 52s	1/5	2023-10-20 14:08:06	TCP OK - 0.002 second response time on www.google.com port 80
9a34-181-162-10-91.sa.ngrok.io	Up	128d 20h 22m 7s	1/5	2023-10-20 14:08:06	TCP OK - 0.152 second response time on 9a34-181-162-10-91.sa.ngrok.io port 443
dns.google	Up	142d 3h 57m 5s	1/5	2023-10-20 14:08:06	OK - 8.8.8.8 rta 1.114ms lost 0%
10.0.0.0	Down	295d 0h 3m 9s	5/5	2023-10-20 14:08:06	check_icmp: Failed to resolve 10.0.0.0: Name or service not known
Router	Up	319d 15h 32m 39s	1/10	2023-10-20 14:08:05	OK - 127.0.0.1 rta 0.182ms lost 0%
localhost2222	Up	319d 10h 20m 55s	1/5	2023-10-20 14:08:05	OK - localhost rta 0.080ms lost 0%
102.68.102.38	Up	123d 2h 19m 20s	1/5	2023-10-20 14:08:05	OK - 102.68.102.38 rta 216.841ms lost 0%
one.one.one.one	Up	319d 10h 20m 57s	1/5	2023-10-20 14:08:05	OK - 1.1.1.1 rta 1.764ms lost 0%
datatys.com	Up	128d 1h 39m 54s	1/5	2023-10-20 14:08:05	HTTP OK: HTTP/1.1 200 OK - 1410 bytes in 0.465 second response time
kredim.com.tr	Up	220d 7h 15m 56s	1/5	2023-10-20 14:08:05	HTTP OK: HTTP/1.1 301 Moved Permanently - 276 bytes in 0.055 second response time
219.92.71.54	Up	125d 4h 19m 56s	1/5	2023-10-20 14:08:05	OK - 219.92.71.54 rta 239.908ms lost 0%
centos4.nagios.local	Up	302d 16h 58m 32s	1/5	2023-10-20 14:08:04	OK: No data received yet.
www.ifas-ksa.com	Up	122d 2h 31m 23s	1/2	2023-10-20 14:08:04	HTTP OK: HTTP/1.1 301 Moved Permanently - 442 bytes in 0.188 second response time
sigauem.mz	Up	1m 12s	1/5	2023-10-20 14:08:04	HTTP OK: HTTP/1.1 301 Moved Permanently - 459 bytes in 0.475 second response time
monster01	Up	128d 20h 21m 14s	1/5	2023-10-20 14:08:04	TCP OK - 0.150 second response time on e0a3-181-162-10-91.sa.ngrok.io port 80
jitgo.net	Up	133d 5h 48m 22s	1/5	2023-10-20 14:08:04	HTTP OK: HTTP/1.1 200 OK - 43208 bytes in 0.577 second response time

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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**

Nagios XI

[Home](#)
[Views](#)
[Dashboards](#)
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[Admin](#)

Quick View

[Home Dashboard](#)
[Tactical Overview](#)
[Birdseye](#)
[Operations Center](#)
[Operations Screen](#)
[Open Service Problems](#)
[Open Host Problems](#)
[All Service Problems](#)
[All Host Problems](#)
[Network Outages](#)

Details

[Service Status](#)
[Host Status](#)
[Hostgroup Summary](#)
[Hostgroup Overview](#)
[Hostgroup Grid](#)
[Servicegroup Summary](#)
[Servicegroup Overview](#)
[Servicegroup Grid](#)
[BPM](#)
[Metrics](#)

Graphs

[Performance Graphs](#)
[Graph Explorer](#)

Maps

[World Map](#)
[bomap](#)
[Hypermip](#)
[Minemap](#)
[NagVis](#)
[Network Status Map](#)

Incident Management

Host Group Status

Summary View

Host Status Summary

Up	Down	Unreachable	Pending
5	0	6	
Unhandled	Problems	All	
5	3	59	

Last updated: 2021-10-05 05:09:35

Service Status Summary

Ok	Warning	Unknown	Critical	Pending
5	3	3	208	7
Unhandled	Problems	All		
339	239	1097		

Last updated: 2021-10-05 05:09:35

Status Summary For All Host Groups

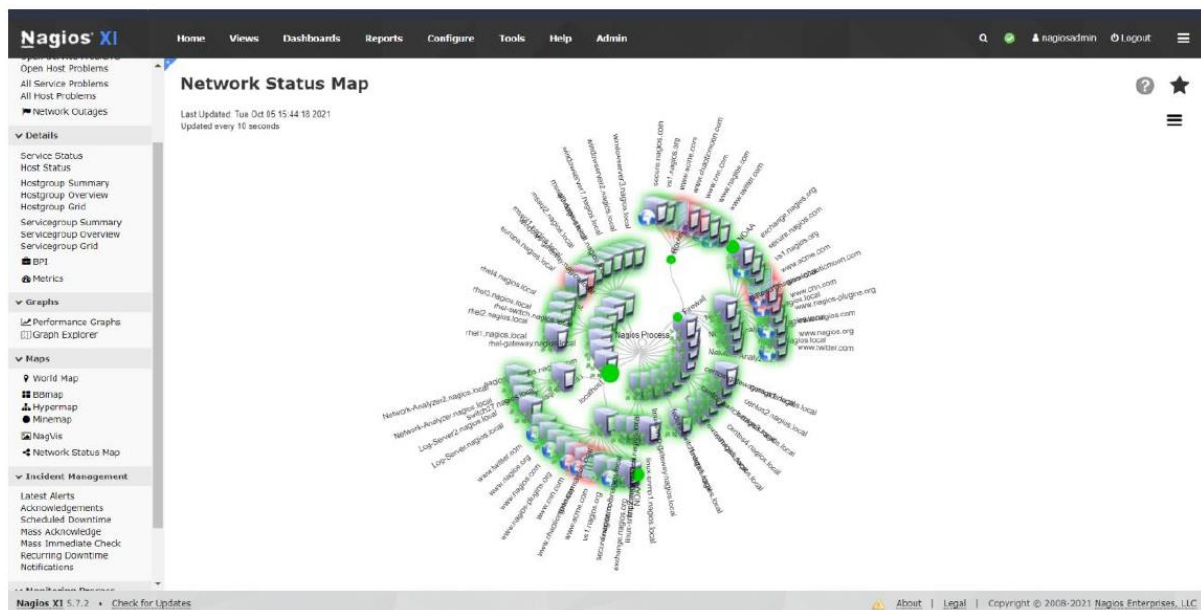
Host Group	Hosts	Services
Monitoring Servers (Monitoring Servers)	5 Up 0 Down 6 Unreachable	61 OK 14 Warning 2 Critical
Hostgroup Two (hg2)	5 Up 1 Down 1 Unreachable	31 OK 4 Warning 5 Unknown 2 Critical
Some Other Hostgroup (hg3)	2 Up 0 Down 0 Unreachable	13 OK 1 Warning 2 Critical
Linux Servers (linux-servers)	21 Up 0 Down 0 Unreachable	218 OK 27 Warning 2 Unknown 13 Critical
Network Devices (network-devices)	7 Up 0 Down 0 Unreachable	119 OK 15 Warning 6 Critical

Nagios XI 5.7.2

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The screenshot displays the Nagios XI web interface. At the top, the navigation bar includes links for Home, Views, Dashboards, Reports, Configure, Tools, Help, and Admin. Below this, there's a search bar and user information. The main content area is titled 'Status Grid' and shows a table of monitoring data for a host group named 'm24group1'. The table has columns for various services and their status (OK, Warning, Critical, Down). The left sidebar contains a 'Details' section with links to Service Status, Host Status, and various summary views. Below this is a 'Maps' section with links to World Map, BBMap, Hypertag, and Network Status Map. The 'Hosts' section lists various hosts and their status. The 'Status Grid' table shows a list of hosts and their status for various services. The table has columns for various services and their status (OK, Warning, Critical, Down). The table is titled 'Status Grid' and shows a list of hosts and their status for various services. The table has columns for various services and their status (OK, Warning, Critical, Down). The table is titled 'Status Grid' and shows a list of hosts and their status for various services. The table has columns for various services and their status (OK, Warning, Critical, Down).



## 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.