

ASSIGNMENT NO 8

Aim: Understand and Install Nagios , Monitor host using Nagios

Objectives

- 1.Understand Nagios
- 2.Understand installation process for Nagios on Ubuntu
- 3.Monitor Localhost using different parameters.

Theory :

What is Nagios?

Nagios is a free to use open source software tool for continuous monitoring. It helps you to monitor

system, network, and infrastructure. It is used for continuous monitoring of systems, applications,

service and business process in a DevOps culture.

Nagios runs plugins stored on the same server. It plugin's connects with a host or another server on your network or the Internet. Therefore, in the case of failure Nagios core can alert the technical

staff about the issues. So that, your technical team performs the recovery process before outage in

the business processes.

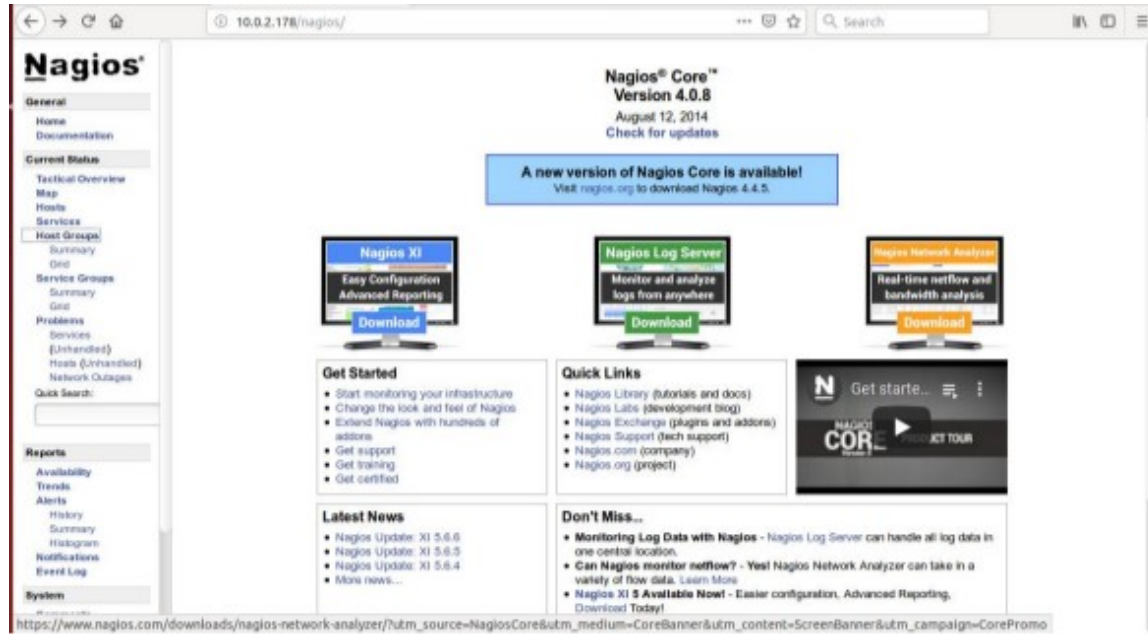
Why We Need Nagios?

Here, are Important reasons to use Nagios monitoring tool are:

- Detects all types of network or server issues
- Helps you to find the root cause of the problem which allows you to get the permanent solution to the problem
- Active monitoring of your entire infrastructure and business processes

- Allows you to monitor and troubleshoot server performance issues
- Helps you to plan for infrastructure upgrades before outdated systems create failures
- You can maintain the security and availability of the service
- Automatically fix problems in a panic situation

web interface



Click on Host Groups

Click on localhost

Host	Service	Status	Last Check	Duration	Attempts	Status Information
localhost	Current Load	OK	03-13-2020 01:30:00	0d 0h 32m 18s	1/4	OK - load average: 0.23, 0.61, 0.48
localhost	Current Users	OK	03-13-2020 01:30:38	0d 0h 31m 41s	1/4	USERS OK - 3 users currently logged in
localhost	HTTP	OK	03-13-2020 01:31:53	0d 0h 30m 26s	1/4	HTTP OK: HTTP/1.1 200 OK - 11794 bytes in 0.500 second response time
localhost	PING	OK	03-13-2020 01:31:54	0d 0h 30m 25s	1/4	PING OK - Packet loss = 0%, RTA = 0.33 ms
localhost	Root Partition	OK	03-13-2020 01:27:31	0d 0h 49m 48s	1/4	DISK OK - free space: / 394142 MB (90% inode=97%):
localhost	SSH	OK	03-13-2020 01:28:09	0d 0h 49m 10s	1/4	SSH OK - OpenSSH_8.6.1p1 Ubuntu-2ubuntu2.13 (protocol 2.0)
localhost	Swap Usage	OK	03-13-2020 01:28:47	0d 0h 48m 32s	1/4	SWAP OK - 100% free (8162 MB out of 8162 MB)
localhost	Total Processes	OK	03-13-2020 01:30:02	0d 0h 32m 55s	1/4	PROCS OK: 78 processes with STATE = RSDZDT

you can click on a particular entry to view more details about it. For example, here is the “Swap Usage” information page for the current node. You can also issue a number of service commands

from the right, such as disabling the check.

10.0.2.178/nagios/

Nagios®

Service Information
Last Updated: Fri Mar 13 01:37:14 EDT 2020
Updated every 60 seconds
Nagios® Core™ 4.0.8 - www.nagios.org
Logged in as nagiosadmin

Service
Swap Usage
On Host
localhost
(localhost)

Member of
No servicegroups.

127.0.0.1

Service State Information

Current Status: **OK** (for 0d 0h 53m 27s)
Status Information: **SWAP OK - 100% free (8102 MB out of 8102 MB)**
Performance Data: **swap=8102MB:0.0,0.8102**
Current Attempt: **1/1 (HARD state)**
Last Check Time: 03-13-2020 01:33:47
Check Type: **ACTIVE**
Check Latency / Duration: 0.000 / 0.001 seconds
Next Scheduled Check: 03-13-2020 01:38:47
Last State Change: 03-13-2020 00:43:47
Last Notification: **NO** (notification OK)
Is This Service Flapping? **NO** (0.74% state change)
Is Scheduled Downtime? **NO**
Last Update: 03-13-2020 01:37:04 (0d 0h 5m 10s ago)

Active Checks: **ENABLED**
Passive Checks: **ENABLED**
Observing: **ENABLED**
Notifications: **ENABLED**
Event Handler: **ENABLED**
Flap Detection: **ENABLED**

Service Commands

- Disable active checks for this service
- Re-schedule the next check of this service
- Submit passive check result for this service
- Stop accepting passive checks for this service
- Stop observing over this service
- Disable notifications for this service
- Send custom service notification
- Schedule downtime for this service
- Disable event handler for this service
- Disable flap detection for this service

Service Comments

Add a new comment Delete all comments

Entry Time	Author	Comment	Comment ID	Persistent	Type	Expires	Actions
This service has no comments associated with it.							

Reschedule downtime of ping service:

10.0.2.178/nagios/

Nagios®

External Command Interface
Last Updated: Fri Mar 13 01:38:34 EDT 2020
Nagios® Core™ 4.0.8 - www.nagios.org
Logged in as nagiosadmin

You are requesting to schedule downtime for a particular service

Command Options

Host Name: localhost
Service: PING
Author (Your Name): Nagios Admin
Comment:
Triggered By: N/A
Start Time: 03-13-2020 01:38:34
End Time: 03-13-2020 03:38:34
Type: Fixed
If Flexible, Duration: 2 Hours 0 Minutes

Command Description

This command is used to schedule downtime for a particular service. During the specified downtime, Nagios will not send notifications out about the service. When the scheduled downtime expires, Nagios will send out notifications for this service as it normally would. Scheduled downtimes are presented across program shutdowns and restarts. Both the start and end times should be specified in the following format: mm/dd/yyyy hh:mm:ss. If you select the fixed option, the downtime will be in effect between the start and end times you specify. If you do not select the fixed option, Nagios will treat this as "flexible" downtime. Flexible downtime starts when the service enters a non-OK state (sometime between the start and end times you specified) and lasts as long as the duration of time you enter. The duration fields do not apply for fixed downtime.

Commit Reset

Please enter all required information before submitting the command.
Required fields are marked in red.
Failure to supply all required values will result in an error.

Summary report of localhost

Current Status

- Tactical Overview
- Map
- Hosts
- Services
- Host Groups
- Summary
- Grid
- Service Groups
- Summary
- Grid
- Problems
- Services
- (Unhandl...)
- Hosts (Unhandl...)
- Network Outages
- Quick Search:

Alert Summary Report

Last Updated: Fri Mar 13 01:52:07 EDT 2020
Nagios Core™ 4.0.0 - www.nagios.org
Logged in as nagios@nagios

Most Recent Alerts

03-06-2020 00:02:07 to 03-13-2020 01:52:07
Duration: 7d 5h 0m 0s

Displaying most recent 25 of 50 total matching alerts

Time	Alert Type	Host	Service	Status	State Type	Information
03-13-2020 00:43:47	Service Alert	localhost	Swap Usage	OK	HARD	SWAP OK - 100% free (8102 MB out of 8102 MB)
03-13-2020 00:43:09	Service Alert	localhost	SSH	OK	HARD	SSH OK - OpenSSH_6.6.1p1 Ubuntu-Zukubit.13 (protocol 2.0)
03-13-2020 00:42:31	Service Alert	localhost	Raid Partition	OK	HARD	DISK OK - free space / 394468 MB (90% inode=95%)
03-13-2020 00:41:58	Service Alert	localhost	PING	OK	HARD	PING OK - Packet loss = 0%, RTT = 0.34 ms
03-13-2020 00:41:53	Service Alert	localhost	HTTP	OK	HARD	HTTP OK: HTTP/1.1 200 OK - 11703 bytes in 0.009 second response time
03-13-2020 00:40:36	Service Alert	localhost	Current Users	OK	HARD	USERS OK - 2 users currently logged in
03-13-2020 00:40:00	Service Alert	localhost	Current Load	OK	HARD	OK - load average: 0.35, 0.31, 0.27
03-13-2020 00:39:28	Host Alert	localhost	N/A	UP	HARD	PING OK - Packet loss = 0%, RTT = 0.34 ms
03-13-2020 00:39:24	Service Alert	localhost	Total Processes	OK	SOFT	PROCS OK: 76 processes with STATE = RUNZDT
03-13-2020 00:38:47	Service Alert	localhost	Swap Usage	CRITICAL	HARD	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_swap,...) failed; error is 2: No such file or directory
03-13-2020 00:38:24	Service Alert	localhost	Total Processes	CRITICAL	SOFT	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_procs,...) failed; error is 2: No such file or directory
03-13-2020 00:38:09	Service Alert	localhost	SSH	CRITICAL	HARD	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_ssh,...) failed; error is 2: No such file or directory
03-13-2020 00:37:47	Service Alert	localhost	Swap Usage	CRITICAL	SOFT	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_swap,...) failed; error is 2: No such file or directory
03-13-2020 00:37:31	Service Alert	localhost	Raid Partition	CRITICAL	HARD	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_disk,...) failed; error is 2: No such file or directory
03-13-2020 00:37:24	Service Alert	localhost	Total Processes	CRITICAL	SOFT	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_procs,...) failed; error is 2: No such file or directory
03-13-2020 00:37:09	Service Alert	localhost	SSH	CRITICAL	SOFT	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_ssh,...) failed; error is 2: No such file or directory
03-13-2020 00:36:54	Service Alert	localhost	PING	CRITICAL	HARD	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_ping,...) failed; error is 2: No such file or directory
03-13-2020 00:36:33	Service Alert	localhost	HTTP	CRITICAL	HARD	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_http,...) failed; error is 2: No such file or directory
03-13-2020 00:36:17	Service Alert	localhost	Swap Usage	CRITICAL	SOFT	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_swap,...) failed; error is 2: No such file or directory
03-13-2020 00:36:31	Service Alert	localhost	Raid Partition	CRITICAL	SOFT	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_disk,...) failed; error is 2: No such file or directory
03-13-2020 00:36:24	Service Alert	localhost	Total Processes	CRITICAL	SOFT	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_procs,...) failed; error is 2: No such file or directory
03-13-2020 00:36:09	Service Alert	localhost	SSH	CRITICAL	SOFT	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_ssh,...) failed; error is 2: No such file or directory
03-13-2020 00:35:54	Service Alert	localhost	PING	CRITICAL	SOFT	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_ping,...) failed; error is 2: No such file or directory
03-13-2020 00:35:53	Service Alert	localhost	HTTP	CRITICAL	SOFT	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_http,...) failed; error is 2: No such file or directory
03-13-2020 00:35:47	Service Alert	localhost	Swap Usage	CRITICAL	SOFT	(No output or at/attd status: execvp(/usr/local/nagios/libexec/check_swap,...) failed; error is 2: No such file or directory

Report Options Summary:

Alert Types: Host & Service Alerts
State Types: Soft & Hard States
Host States: Up, Down, Unreachable
Service States: OK, Warning, Unknown, Critical

[Generate New Report](#)

CONCLUSION: In this assignment we studied about Nagios and how to study its different features.