Continuous Monitoring Using Nagios
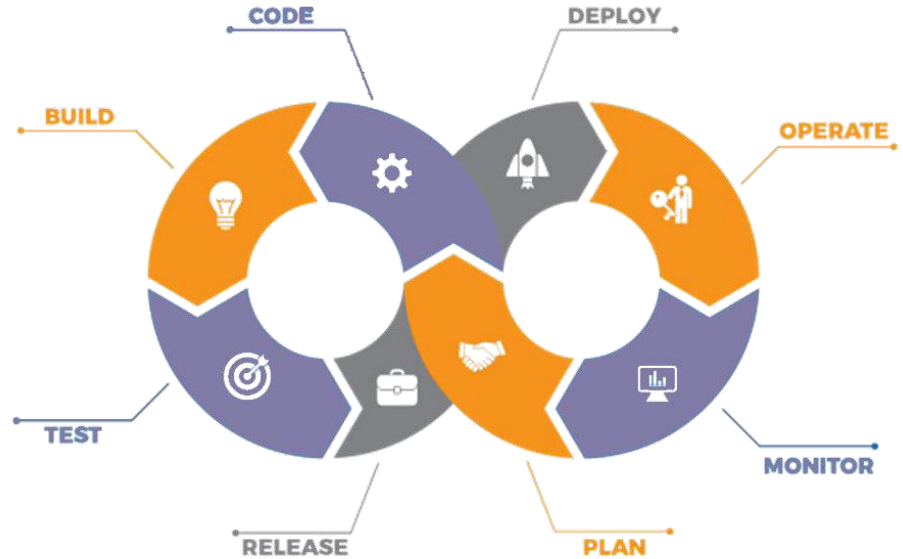
Agenda

What is Continuous Monitoring?

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Continuous monitoring is the process and technology used to detect compliance and risk issues associated with an organization's financial and operational environment. The financial and operational environment consists of people, processes and systems working together to support efficient and effective operations.

Why Continuous Monitoring?

It detects any network or server problems.

It determines the root cause of any issues.

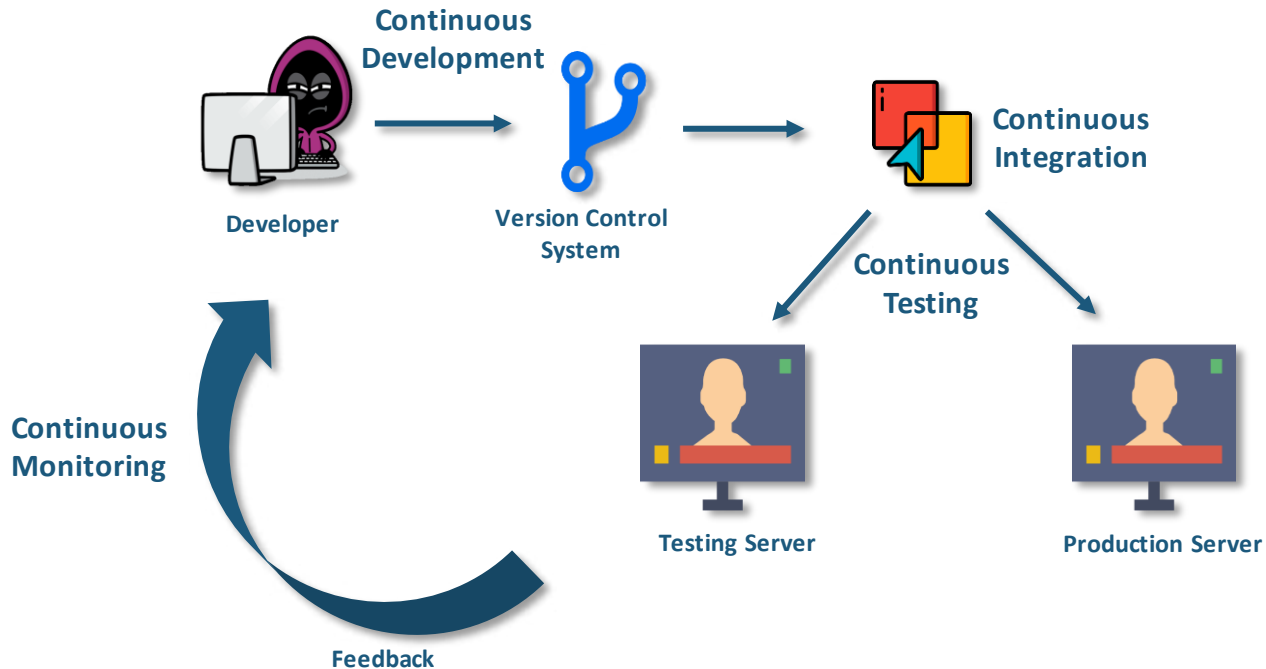It maintains the security and availability of the service.

It monitors and troubleshoots server performance issues.

It can respond to issues at the first sign of a problem.

It monitors your entire infrastructure and business processes.

What is Continuous Monitoring?

Continuous Development

Version Control System

Developer

Continuous Integration

Continuous Testing

Continuous Monitoring

Feedback

Testing Server

Production Server

Software Delivery Pipeline

Continuous Monitoring Tools

Continuous Monitoring Tools
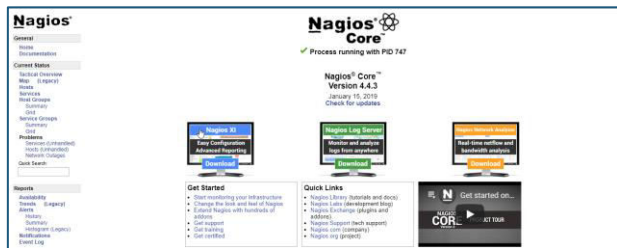
Introduction to Nagios

Introduction to Nagios

Nagios, now known as Nagios Core, is a free and open-source computer-software application that monitors systems, networks and infrastructure. Nagios offers monitoring and alerting services for servers, switches, applications and services.

Nagios®

Nagios Architecture
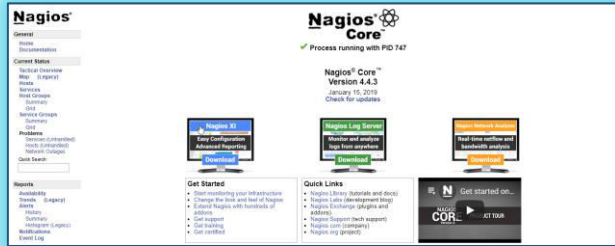
Nagios Architecture

Nagios GUI

NRPE Plugins

Scheduler

Nagios Architecture

Nagios GUI

NRPE Plugins

Scheduler

This is a web UI, which can be used to check the status of the host or the services.

Nagios Architecture

Nagios GUI

The scheduler does the job of scheduling checks, i.e., what to check and when to check it.

NRPE Plugins

Scheduler

Nagios Architecture

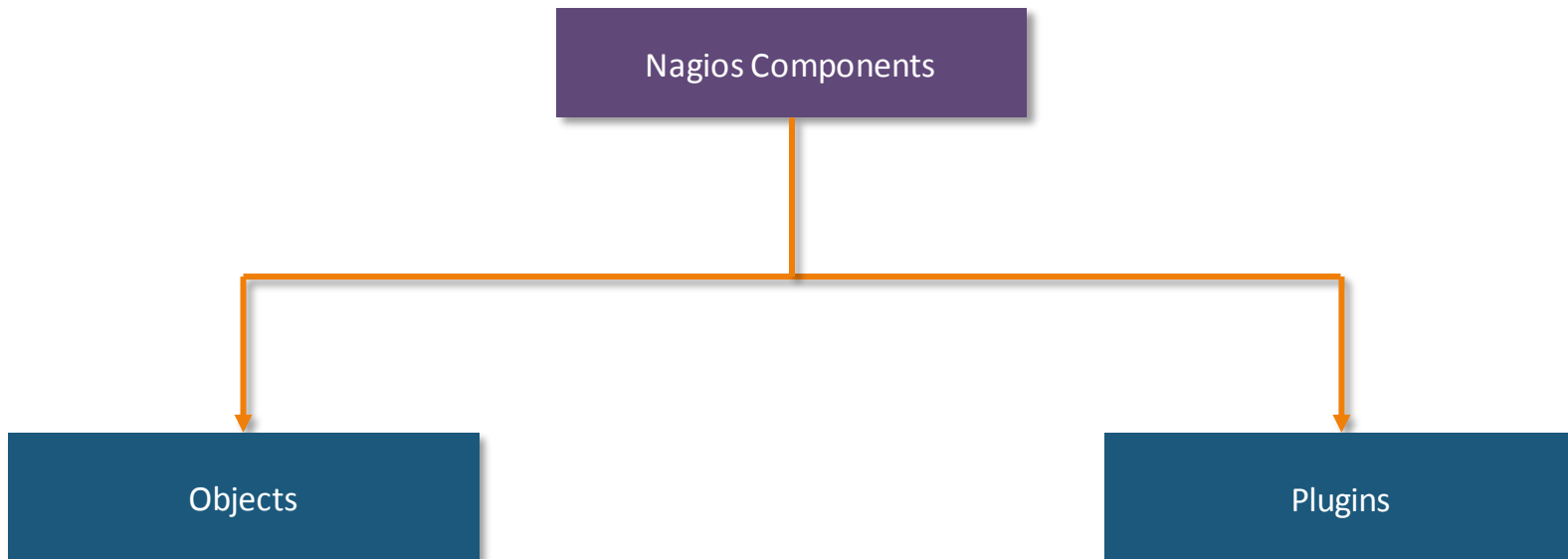Nagios GUI

NRPE Plugins

Scheduler

The clients do not have Nagios installed on them. Hence, the log data of clients are sent through plugins.

Installing Nagios on AWS

Nagios Components

Nagios Components

Nagios Components

Objects

Plugins

Objects are all the elements that are involved in the monitoring and notification logic. When Nagios starts, restarts or reloads, it reads all the ".cfg" files within the object directories.
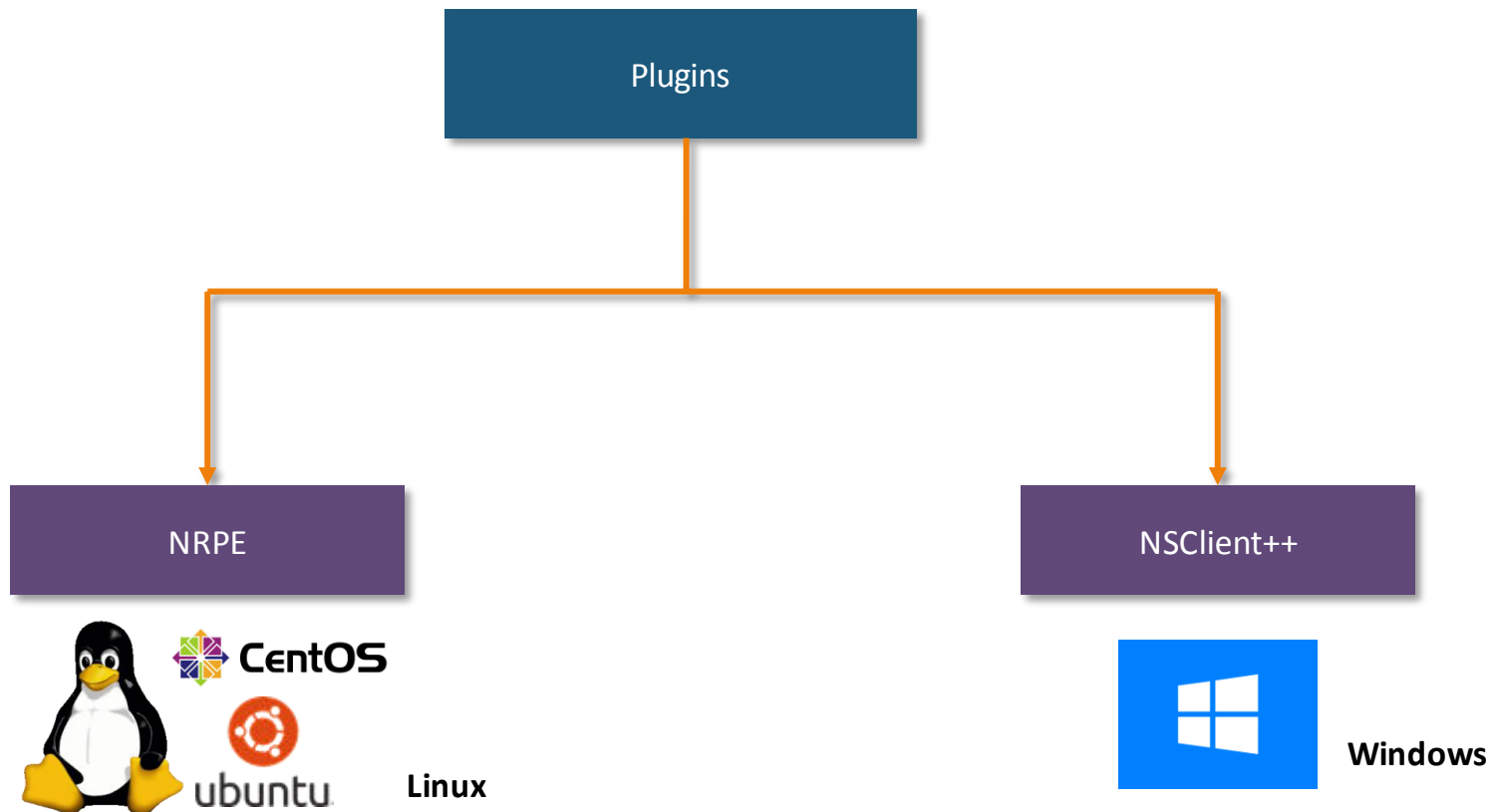
Nagios Components

Objects

Plugins

Plugins are the piece of software that one installs on the Nagios slave/host, using which the host can interact with the Nagios Server and send the application logs.

Type of Plugins in Nagios

Types of Plugins in Nagios

Creating a Host in Nagios Using NRPE Plugin

Creating a Host in Nagios Using NRPE

1. Launch an Ubuntu box on AWS

2. Follow the commands for Installing NRPE Plugin

3. Add the Host in Nagios Server in the objects folder

4. Change the Main Nagios Configuration file for reading this file

5. Finally, restart the Nagios Server

Creating a Monitoring Service in Nagios for Remote NRPE Client

Quiz

Quiz

1. Which configuration file will have all the sample syntax defined?

A. templates.cfg

B. servers.cfg

C. printer.cfg

D. switches.cfg

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A. Whether Nagios Host is running or not

B. Whether Nagios Core was restarted

C. Nagios Host's definition

D. None of these

Quiz

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Quiz

3. Which Plugin is used to connect to Windows Hosts?

A. NSClient++

B. NRPE

C. Build Pipeline

D. None of these

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Quiz

4. Can we disable Notifications for host in Nagios?

A. Yes

B. No

Quiz

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B. No

Quiz

5. On which port does Nagios GUI work?

A. 8000

B. 80

C. 8001

D. None of these

Quiz

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