

Nagios Monitoring Tool Summary

What is Nagios?

Nagios is an open-source monitoring tool that allows you to monitor systems, networks, and infrastructure. It helps in identifying and resolving IT infrastructure issues.

Features of Nagios

- Real-time monitoring
- Alerts and notifications
- Web interface for reports
- Historical performance data
- Extensible with plugins and scripts

Nagios Architecture

1. Nagios Core Server: Main monitoring engine
2. Plugins: Scripts to check services and hosts
3. NRPE: Executes remote checks on Linux systems
4. Web Interface: Displays status and alerts
5. Configuration Files:
 - nagios.cfg (main config)
 - hosts.cfg, services.cfg (define targets)
6. Alerting: Sends notifications via email/SMS

Configuration Steps

1. Install Nagios Core
2. Configure nagios.cfg, hosts.cfg, services.cfg
3. Install required plugins
4. Set up Web UI access
5. Restart Nagios and monitor services

NRPE Overview

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NRPE (Nagios Remote Plugin Executor) is used to execute plugins on remote Linux systems. It communicates over port 5666 and is configured using nrpe.cfg.

Service Check Examples

- check_http -H www.google.com
- check_ping -H 192.168.1.1

Alert Notification Workflow

1. Plugin detects a problem (e.g., service down)
2. Nagios processes and triggers alert
3. Notification is sent to admin (Email/SMS)
4. Admin investigates and resolves issue