

# Course : Nagios, operation

*Practical course - 3d - 21h00 - Ref. NAX*

*Price : 2020 € E.T.*

This training course covers everything you need to know to run Nagios efficiently. You'll learn how to carry out the main operating tasks, such as backup operations, adding plug-ins, using intelligent business process tools and more.

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Get to know Nagios functionalities
- ✓ Configuring Nagios from a Web interface
- ✓ Monitor your Linux and Windows servers with Nagios
- ✓ Key metrics for reporting

## Intended audience

Systems and network technicians.

## Prerequisites

Basic knowledge of Linux and corporate networks.

## Practical details

### Hands-on work

Implementation of information system management using nagios with additional nagvis and nagios BPI, or centreon.

## Course schedule

### PARTICIPANTS

Systems and network technicians.

### PREREQUISITES

Basic knowledge of Linux and corporate networks.

### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

## 1 NAGIOS fundamentals

- nagios objects: Hosts, Services, commands, hostgroups, servicegroups, contacts, contact groups and time periods.
- Nagios basics in terms of architecture, configuration file and operation.
- Global monitoring of Linux and Windows servers.
- Understanding and developing plug-ins.
- Additional application installation scripts.
- Incident process management with contacts, time periods and notifications.
- User management using Nagios contact and contactgroup objects for system access rights.

### Hands-on work

Implementing server management using services. Implementation of a plugin. Installing a grapher using a script. Backing up your nagios server.

## 2 Server management

- Windows monitoring: solutions with NSClient ++ (either check\_nt or check\_nrpe)
- Monitoring Linux servers using ssh or nrpe techniques.
- Nagios' use of Microsoft's WMI to administer Windows servers.

### Hands-on work

Managing a Windows server using NSCLIENT++ (with and without nrpe). Windows management using WMI. Linux server management using scripts activated by SSH or the NRPI agent.

## 3 Using SNMP to manage an information system

- SNMP principles and objects.
- SNMP protocol for Linux system management.
- Use SNMP to manage a Windows system.
- Manage network devices and printers with SNMP.
- SNMPTT and NSRI tools for managing SNMP traps.

### Hands-on work

Flow management with bandwidth graph of a Linux network interface with SNMP. SNMP switch-router management.

## 4 Must-haves: NDO Nagvis and Nagios BPI

- NDOUtils, the add-on for Nagios.
- Centreon interface implementation.
- The graphical access system to Nagios Nagvis.
- BPI a Business Process Intelligence interface for Nagios objects.

### Hands-on work

Installation and use of Nagvis and NagiosBPI.

#### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

#### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.