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Learning Style: Virtual Classroom

Technology: Cisco

Difficulty: Intermediate

Course Duration: 4 Days

Securing Cisco Networks with Open Source Snort® (SSFSNORT)

About this course:

In this four-day course, Securing Cisco Networks with Open Source Snort®, students will learn how to build and manage a Snort® system using open source tools, plug-ins, as well as the Snort® rule language to help manage, tune, and

deliver feedback on suspicious network activity.

This lab-intensive course introduces you to the open source Snort® technology, as well as rule writing. Among other powerful features, you become familiar with:

- How to build and manage a Snort® system
- How to update rules
- Snort® rules language
- The capabilities of Snort® when deployed passively and inline

The course begins by introducing the Snort® technology and progresses through the installation and operation of Snort®. You will discover the various output types that Snort® provides and learn about automated rule management including how to deploy and configure Pulled Pork, inline operations, and how to create custom Snort® rules, including advanced rule-writing techniques and OpenAppID.

This course combines lecture materials and hands-on labs that give you practice in deploying and managing Snort®.

Course Objective:

Upon completing this course, the learner will be able to meet these overall objectives:

- Snort technology and identify the resources that are available for maintaining a Snort deployment
- Install Snort on a Linux-based operating system
- Snort operation modes and their command-line options
- Snort intrusion detection output options
- Download and deploy a new rule set to Snort
- Configure the snort.conf file
- Configure Snort for inline operation and configure the inline-only features
- Snort basic rule syntax and usage
- How traffic is processed by the Snort engine
- Several advanced rule options used by Snort
- OpenAppID features and functionality
- How to monitor of Snort performance and how to tune rules

Audience:

The primary audience for this course is as follows:

- Security administrators
- Security consultants
- Network administrators
- System engineers
- Technical support personnel using open source IDS and IPS
- Channel partners and resellers

Prerequisite:

The knowledge and skills that the learner should have before attending this course are as follows:

- Networking and network protocols
- Linux command line utilities
- Text-editing utilities commonly found in Linux
- Network security concepts

Course Outline:

Introduction to Snort Technology

Snort Installation

Snort Operation

Snort Intrusion Detection Output

Rule Management

Snort Configuration

Inline Operation and Configuration

Snort Rule Syntax and Usage

Traffic Flow Through Snort Rules

Advanced Rule Options

OpenAppID Detection

Tuning Snort

Lab Outline:

- Lab 1: Connecting to the Lab Environment
- Lab 2: Snort Installation
- Lab 3: Snort Operation
- Lab 4: Snort Intrusion Detection Output
- Lab 5: Pulled Pork Installation
- Lab 6: Configuring Variables
- Lab 7: Reviewing Preprocessor Configurations
- Lab 8: Inline Operations
- Lab 9: Basic Rule Syntax and Usage
- Lab 10: Advanced Rule Options
- Lab 11: OpenAppID
- Lab 12: Tuning Snort

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