



FORUM SYSTEMS ONLINE TRAINING

INTRODUCTION AND SETUP



FORUM SYSTEMS

A Crosscheck Networks Company

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Published: July 2015

Forum Systems Hands-on Training – Introduction and Setup
D-ASF-SE-010029

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Introduction

Forum Systems Hands-on Training

The Forum Systems Hands-on lab tutorials are designed to provide new Sentry Administrators and Developers with general knowledge of administering and policy configuration of the Forum Sentry API Gateway. This includes labs specifically for API developers as well as middleware administrators tasked with managing Forum Sentry deployments.

While the labs are independent of each other, they progress from the basic building and testing of SOAP and REST APIs to deploying and securing services with Forum Sentry. Each lab has its own PDF document and any dependencies between the labs are noted at the start of the lab.

This document is meant to provide an overview of the lab tutorials, the online training platform, and the setup necessary to complete the individual labs.

Online Training Platform

The Forum Systems Mindflash Training Portal

The training material is organized into a series of training courses available through an online training portal hosted by Mindflash. All training attendees will have a unique login for the portal. The login for the portal will be the attendee's email address and the password will be set by the training attendee upon initial access to the training platform or by using the "Forgot Password" option to reset the password.

Each training course includes the following components:

Instruction Videos – These training videos review and demonstrate the exercises the trainees will perform in the self-paced lab tutorial portion of the training course.

Lab Tutorial – A lab tutorial PDF document can be downloaded from each course and will outline the steps needed to replicate what was shown in the training videos. Using this document, trainees will access their virtual training environment to run the tutorial.

Assessment Quiz – A brief quiz is used to conclude each course and highlight key concepts presented in the course video and lab tutorial.

Registration

Registration for the online training portal requires an email address. A list of email addresses for all attendees should be sent to the Forum Systems training administrator. The training administrator will register the email addresses in the training platform for each course. Training attendees will then receive an invitation email for each course they are registered for which includes a link to access the course.

Course Topics

Web Service Basics and Testing

- Lab 1. Introduction to SOAP Web services – Building a sample SOAP web service
- Lab 2. Testing SOAP Web services with SOAPSonar
- Lab 3. Introduction to REST APIs – The OpenWeatherMap REST API

Introduction to the Forum Sentry API Gateway

- Lab 4. The Forum Sentry WebAdmin Interface – Navigation, Logs, Admin Users, System settings
- Lab 5. Deploying a SOAP Web service through Forum Sentry
- Lab 6. Deploying a REST API through Forum Sentry

Forum Sentry API Gateway Policy Configuration (Developer Training)

- Lab 7. PKI Management in Forum Sentry
- Lab 8. Transaction Privacy – SSL Termination
- Lab 9. Introduction to Task Lists
- Lab 10. Transaction Privacy – SOAP/XML Payload Encryption and Decryption
- Lab 11. Transaction Integrity – Digital Signatures
- Lab 12. Transaction Threat Mitigation – Rate Throttling IDP rules
- Lab 13. Identity – LDAP Integration
- Lab 14. Identity – Password Authentication on REST API
- Lab 15. Identity – Form Post SSO with FSSESSION Cookies
- Lab 16. Integration – REST-to-SOAP Conversion

Managing a Forum Sentry Deployment (Administrator Training)

- Lab 17. Sentry Configuration Storage – Data Source Policies
- Lab 18. Configuring Remote Logging

Notes

- The Forum Sentry Training Labs require access to the Forum Systems Training Image, which is either available as a local VM or as a remote Amazon EC2 instance.
- Regardless of how you run the FS Training Image (local or remote), it will contain all of the software referenced in the labs, including Forum Sentry.
- The lab tutorials were written for Sentry v8.1. Some of the screen shots in the lab documents might not match the screens in the latest releases of the products referenced. You can usually ignore the slight differences and continue working through the lab.
- Please report any issues with the lab tutorials, the online training platform, or with the Training VM to training@forumsys.com.

Forum Sentry Training VM Requirements

The lab tutorials are designed to work with the Forum Sentry Training Image, whether running locally as a VM or online as an Amazon EC2 instance.

Remote Instance - Using the Forum Sentry EC2 Training Image

Forum Systems maintains Sentry training Images hosted on Amazon EC2. These systems run Windows 2012 and include all of the software necessary to work through the training labs.

Each training attendee will have access to their own Sentry training Image for the duration of the training classes and up to a week following.

System Requirements:

1. Outbound RDP (remote desktop port 3389) network access to ***.amazonaws.com**
2. A remote desktop client application – built into Windows but also available for Mac and Linux systems (Microsoft Remote Desktop)

The Forum Systems Training staff will provide the individual ***.amazonaws.com** hostnames that each training attendee will need to access their remote training image via Microsoft Remote Desktop.

The Windows admin credentials for the Sentry training Image will be also be provided.

Local Instance - Obtaining the Sentry Training VM

If remote access to the hosted Sentry training Images is not available, training attendees have the option to download and run the training image locally as a virtual machine (VM).

Due to the size of the VM Image, the file will need to be downloaded by the training participants in advance of the scheduled training session.

The virtual machine can be downloaded using the following URL:

http://downloads.forumsys.com/downloads/training/EC2/FS_Training_VM_3-2015.7z

System Requirements:

1. The local VM training Image can be run in VMware Workstation or the free VMware player
2. Host system with at least 2gb of RAM – 1g dedicated to the VM – recommended
3. Outbound internet access on standard and non-standard ports may be required for some of the labs

Licensing the Software on the Training Image

Whether the Forum Sentry Training Image is run remotely or locally, the software on the Image (including Sentry, SOAPSonar, and CloudPort) will need to be licensed. The Forum System Training staff will provide the necessary licenses before or during the training session.

Licensing Forum Sentry

The Forum Sentry Training Image includes an instance of Forum Sentry software already installed on the Image. However, this Sentry license might be expired when the Image is launched. Subsequently the Sentry WebAdmin interface may prompt to import a new license file and will also show the unique server ID associated with that instance of Sentry. The server ID should be sent to the training administrator to be used to generate a new license file for Sentry.

To license the Sentry instance, follow the steps below:

1. Start the "Forum Sentry" Windows Service
2. Open the WebAdmin interface by visiting: <https://localhost:5050>
3. Import the new License file (an xml file) provided by the Forum Systems Training Staff.

Note: The Forum Sentry service will automatically shutdown after five minutes when not licensed. Subsequently, if the WebAdmin is not accessible using the <https://localhost:5050> URL when attempting to license Sentry, verify if the Forum Sentry service is running.

Licensing SOAPSonar

Several of the labs utilize SOAPSonar as a testing tool to generate and send requests messages to the service and to Sentry. The Forum Sentry Training Image includes an instance of SOAPSonar. However, this SOAPSonar instance might be expired.

There are two options for licensing SOAPSonar, both outlined below.

1. Online Activation – the Forum Systems Training staff will provide a license key that can be entered into the License Activation screen and activated against the Crosscheck Networks online activation service. This will require the Training Image has internet access (either directly or through a proxy server). The remote Images (hosted on Amazon) will have internet access and online activation should succeed.
2. Manual Activation – If the Training Image does not have any internet access, the user will need to go through a manual activation process via email. Follow the on-screen instructions.

Licensing CloudPort

Some of the labs utilize CloudPort as a back-end service simulator. The Forum Sentry Training Image includes an instance of CloudPort already installed. However, this CloudPort instance might be expired.

There are two options for licensing CloudPort, both outlined below.

1. Online Activation – the Forum Systems Training staff will provide a license key that can be entered into the License Activation screen and activated against the Crosscheck Networks online activation service. This will require the Training Image has internet access (either directly or

through a proxy server). The remote Images (hosted on Amazon) will have internet access and online activation should succeed.

2. Manual Activation – If the Training Image does not have any internet access, the user will need to go through a manual activation process via email. Follow the on-screen instructions.

Training Lab Skill Levels

All of the training labs in this series are labeled with a specify skill level. The skill levels are defined below.

- Beginner – Little to no prior experience with Forum Sentry or SOAPSonar is required.
- Intermediate – Some existing experience with Forum Sentry and SOAPSonar OR completion of the Beginner Level labs is assumed. With the Intermediate labs there may be fewer explicit screen shots and specific instructions, especially when repeating steps from previous labs in the series. Attendees will need to start building policies on their own or reference earlier labs, with general assistance from the Training Staff.
- Advanced – A working knowledge of the Forum Sentry and SOAPSonar products OR completion of the Beginner and Intermediate labs is assumed. With the Advanced labs there will be fewer screen shots and specific instructions. Instead, general use case requirements and guidelines are provided and the user will need to build policies with minimal assistance from the Training staff.

The final character in the name of each PDF lab document lists the Skill Level. For instance:

_B = Beginner
_I = Intermediate
_A = Advanced

FS_Training_Labs_v8-1_Lab1_B.pdf → Beginner level lab
FS_Training_Labs_v8.1_Lab10_I.pdf → Intermediate level lab

Additional Support Resources

Forum Systems Support:
<https://helpdesk.forumsys.com>

Introduction to Sentry Administration Video:
<http://www.forumsys.com/videos/sentry/intro/SentryIntroduction.html>

Forum Sentry Documentation:
http://www.forumsys.com/downloads/download_sentry.php?download=go

SOAPSonar Test Client:
http://www.crosschecknet.com/download/download_register.php?product=E

CloudPort Service Simulator:
http://www.crosschecknet.com/download/download_register.php?product=M

Training Support Contact Information

Training Administrator

Email: training@forumsys.com

About Forum Systems

Forum Systems is the global leader in API and Cloud Security technology with industry-certified, patented, and proven products deployed in the most rigorous and demanding customer environments worldwide. Forum Systems has been an industry leader for over 12 years and has built the core architecture of its technology on the foundation of FIPS 140-2 and NDPP. Forum Systems security-first mindset enables trusted, network edge deployments of its technology for protecting critical enterprise transactions.

Our product technology is purpose-built and designed for mission-critical, enterprise-class scalable solutions where business solutions require the modern day security and identity enforcement protection, while enabling a scalable architecture and low-latency, high-volume throughput.

Forum Systems supports global enterprise customers across industries in commercial, government, and military sectors. Forum Systems technology provides the leading-edge of modern-day cyber-security innovation with integrated identity and SSO features that enable out-of-the box business solutions with point-and-click technology.

Forum's patented, FIPS 140-2 and NDPP certified hardware and virtual products make modern-day business communications secure by actively protecting and accelerating data exchange and API service access across networks and business boundaries. For more information, please visit www.forumsys.com.