

The Solace logo is a large, teal-colored wordmark. The letters are bold and rounded, with a slight shadow effect. The 'S' is particularly large and prominent. The logo is positioned vertically on the left side of the page, partially overlapping a background image of a person working at a computer.

ADVANCED SOLACE ADMINISTRATION

Course Overview

This course expands the basic skill sets that are developed in the Introduction to Solace Administration 101 course. It focuses on “Day 2 Operations” with Solace Messaging—automating provisioning tasks using, optimizing thresholds to be alerted of problems before they occur, and monitoring events and performance with logs and metrics. From there, the course explores troubleshooting various messaging features, monitoring for robustness & fault-tolerance, and exploring operational best practices. Modules are accompanied by lab exercises that provide hands-on experience.

Note: This is a 3-day course; “Day 2 Operations” represents a major theme in IT operations.

Course Objectives

Upon completion of this course, participants will be able to do the following:

- Understand Solace’s role-based administration and how it impacts operations and development teams
- Automating day-to-day provisioning tasks using SEMPv2
- Manage thresholds and events to be proactive in identifying and preventing potential problems
- Understanding capacity planning & forecast analysis
- Troubleshoot Solace Messaging features, such as Redundancy, Replication, and VPN Bridges

Delivery Method: Instructor-led private on-site classroom

Course Duration: Three days of training

Target Audience: This course is designed for administrators and operations staff who require advanced administrator skills for Solace Message Routers.

Prerequisites:

- Completion of the Introduction to Solace Administration 101 course is required
- Experience using Solace’s SolAdmin & command line interface
- Prior knowledge of DevOps-CI/CD Pipeline Automation is helpful, but not required

Pricing: Please contact us at services@solace.com

More Information: To learn more, contact your account executive or email services@solace.com.

COURSE MODULES

Introduction

- Introductions & Solace Overview

Solace Administration Overview

- Management Tools Overview
- Role-based Administration
- Exercise: Configure users for different roles

Day 2 Operations

Note: This is a 3-day course; “Day 2 Operations” represents a major theme in IT operations and will be taught over 3 days.

Automating Day-to-Day Operations

- SEMP Overview
- SEMP Schemas
- Exercise: Provisioning Message-VPNs, queues, client-username, and profiles with SEMPv2
- DevOps: CI/CD Pipeline Automation

- Exercise: Automating provisioning tasks using Ansible/Chef/Puppet
- Exercise: Migrate Message-VPN configuration for different app development stages (DEV-UAT-PROD)

Proactive Monitoring

- Event Monitoring
- Exercise: Configuring various thresholds and simulating app problems to trigger events
- Capacity Planning
- Performance Monitoring
- Polling Granularity
- Publisher Identification
- Exercise: Using SEMP to collect metrics for capacity & performance monitoring
- Exercise: Storing & analyzing metrics in time series databases (Elasticsearch/InfluxData)

Troubleshooting

- Packet Captures & Analysis (Wireshark)
- Exercise: Use Solace’s Wireshark SMF plugin to

analyze packets

- Operational Troubleshooting Basics
- Exercise: Troubleshooting Config-Sync
- Exercise: Troubleshooting Solace PubSub+ Appliance HA & Software HA
- Exercise: Troubleshooting Replication
- Exercise: Troubleshooting VPN Bridging
- Exercise: Troubleshooting Client Application-Level Issues
- PubSub+ Troubleshooting
- Exercise: Troubleshooting PubSub+ Software-Specific Issues

Operational Best Practices

- General Operational Best Practices
- Configuration Management Best Practices
- Managing System Upgrades & Regression Testing

