

# SUSE Manager 4.x Basic Operations (SMGR201V4.3)

ID SMGR201V4.3 Price on request Duration 3 days

## Who should attend

This course is designed for:

- Server System Administrators who are tasked with day-to-day server management and support
- Senior System Administrators who are typically 2nd or 3rd level support within their company and act as “team leads” for Server System Administrators.
- Consultants that need to understand how SUSE Manager can significantly lessen the administrative burden of managing hundreds or even thousands of servers.

## Prerequisites

Attendees should have the following experience and skills before attending this class:

- Installing and configuring SUMA Servers and Proxy Servers is only reviewed in this training. The attendee is assumed to be responsible day-to-day management. However, detailed information on installation and initial configuration of SUMA is presented in course [SUSE Manager Deployment and Initial Configuration \(SMGR211V4\)](#). Attendance in SMGR211v4 is helpful, not required to be successful in this class
- Have at least one year’s experience managing Linux operating systems
- Be able to work at the Linux command-line and use the vi editor
- Understand how to manually install packages on SUSE Linux Enterprise servers.

## Course Objectives

Attendees will be taught the following concepts and skills:

- Review the SUMA Architectural Components (SUMA Server, SUMA Proxy Server, Managed Clients and the Hub Server)
- Understand the parts of the SUMA Web UI and how to access it
- Using the SUMA Web UI to:
  - Get an overview of your entire SUMA system via

- the System Visualization feature
  - Locate desired managed clients by using the Web UI’s advanced search capabilities
  - View the system details of managed clients
- Understand the Registration Process and what occurs during Registration. Learn how to register target servers using multiple methods
- Create, configure, and manage Registration related object such as Activation Keys, Channels, System Groups, and Salt Keys
- Plan for, and implement Registration using the Web UI and bootstrap scripts
- Implement Channel Management:
  - Learn Channel related terminology and channel types
  - Clone Channel content
  - Implement Configuration Channels
  - Understand and implement Content Lifecycle Management (CLM)
- Learn how to delegate management authority in SUMA:
  - Understand how and why additional SUMA Organizations may need to be created
  - Establishing trust between SUMA Organizations
  - Learn about the Administrative Roles and Permission Roles that can be created and assigned to manage SUMA resources
  - Creating new Web UI administrative users
- Manage client servers using Salt
  - Define Salt and understand its architecture
  - Understand Salt grains, pillars, and states
  - Learn how to leverage the salt, salt-run, salt-call, and salt-key commands
- Perform common administrative tasks such as:
  - Using the Web UI to execute commands on remote client servers
  - Using the System Set Manager (SSM) to perform management activities on multiple client servers at one time
  - Creating and using Action Chains
  - Understand and use various methods for installing RPM packages on client servers
  - Create Recurring States and Highstates

## Course Content

### Section 1: Course Overview

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## Section 2: Review SUSE Manager (SUMA) 4.x Architecture and Configuration

- Review SUMA Architectural Components
- Review the SUMA 4.x Initial Setup process

- Using Configuration File Management in SUMA (both Configuration Channels and State Channels)
- Scheduling the enforcement of the Highstate and Recurring Custom States
- Understanding Subscription Matching

## Section 3: Using the Web UI to Explore your SUSE Manager Environment

- Introduction to the SUMA Web UI and its organization
- Visualizing your entire SUMA System at a glance
- Locating and viewing information about managed clients

## Section 4: Understanding the Registration Process

- Understanding the importance of Registration
- Managing Registration-related Objects
- Planning for Registration
- Introduction to Registration Methods
- Using the various Registration Methods to register target servers

## Section 5: Implementing Channel Management

- Understanding Channel Related Terminology
- Cloning Channel Content using the Web UI and spacecmd
- Implementing Custom Channels
- Understanding Content Lifecycle Management

## Section 6: Delegating Management Authority in SUSE Manager

- Defining SUSE Manager "Organization"
- Understanding the Administrative Roles in SUMA
- Understanding Permission Roles and their capabilities
- Using the Web UI to manage Users and Grant Permissions

## Section 7: Managing Salt Minions in SUMA

- Understanding Salt and its Architecture
- Configuration Files used by Salt and SUMA
- Understanding the types of Salt Commands
- Using the salt command
- Using the salt-run command
- Using the salt-call command
- Using the salt-key command

## Section 8: Performing other Common Administrative Tasks in SUMA

- Using the Web UI to execute Remote Commands
- Leveraging the System Set Manager (SSM) to affect many managed servers at once
- Implementing Action Chains

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## Training Centres worldwide



## Fast Lane Institute for Knowledge Transfer GmbH

Husacherstrasse 3  
CH-8304 Wallisellen  
Tel. +41 44 832 50 80

info@flane.ch, <https://www.flane.ch>