

Chef

Course Summary

Description

Chef Workshop is a comprehensive instructor-led training covering the basic architecture of Chef and its associated tools. This goal of the course is to prepare operations staff to use Chef. The course has hands on exercises to reinforce the material. You will learn Chef by using it.

Objectives

At the end of this course, students will be able to:

- Have a code base that can be used to solve real business problems

Topics

- Ruby Primer (enough to understand reading Chef code)
- Chef Refresher
- Local Chef Cookbook Development
- Running Chef
- Building a Basic Cookbook
- Building a more Complicated Cookbook
- Cookbook Patterns and Practices
- Building Custom Resources

Audience

Anyone working in DevOps (Also Development Roles)

Prerequisites

Unix Shell usage is a help

Duration

Three days

Chef

Course Outline

Day 1

I. Ruby Primer

- A. Basic Syntax
- B. Data Structures used in Chef
- C. Hash
- D. Array
- E. Blocks
- F. Lab: Ruby Primer

II. Chef Refresher

- A. What Chef provides
- B. Cookbooks

III. Local Chef Cookbook Development

- A. Vagrant

IV. Running Chef

- A. Chef Server/Client
- B. Chef Solo
- C. Lab: Running Chef

Day 2

V. Building a Basic Cookbook

- A. Parts of a Cookbook
- B. Recipes
- C. Attributes
- D. Templates / Files
- E. Example: NTP
- F. Example: Resolve

VI. Building a More Complicated Cookbook

- A. Chef node customization
- B. Environments
- C. Roles
- D. Nodes
- E. Data Bags (Encrypted+)
- F. Using other Chef resources
- G. Using multiple cookbooks together
- H. Dependency management
- I. Cookbook Metadata
- J. Lab: Building Cookbook

Day 3

VII. Cookbook Patterns and Practices

- A. Application vs Library Cookbooks
- B. Resources best practices

VIII. Building Custom Resources

- A. Libraries / Definitions
- B. LightWeight Resource Providers
- C. Lab: Building Custom Resources

IX. Q/A