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CHEF

Chef Essentials Training

Course Overview

This 2-day instructor-led Chef Essentials training teaches students critical skills and knowledge. Upon completion of this training students should be able to:

- Automate the configuration, deployment and management of servers
- Understand Chef architecture and the set of tools included in the Chef Development Kit

Course Outline

Configuration Management and Chef

- What is configuration management?
- Why you need a configuration management tool to automate IT
- Why Chef may be a good tool for your enterprise

Configure your Chef Development Environment

- Installing and configuring all the tools necessary to write Chef automation code
- Supported development environments:
 - Linux
 - Mac OS X
 - Windows

Ruby and Chef Syntax

- Ruby overview
- Ruby syntax



Write your First Chef Recipe

- Create a directory structure for your code
- Write your first Chef recipe
- Verify your first Chef recipe
- Recipe specify desired configuration

Manage Sandbox Environments with Test Kitchen

- Installing Vagrant and VirtualBox
- Host versus Guest
- Introducing Test Kitchen
- Spinning up your first virtual machine
- YAML overview
- Test Kitchen Configuration with `.kitchen.yml`

Manage Nodes with Chef Client

- Create a New Sandbox Environment For a Node
- Installing Chef Client with Test Kitchen
- Your first Chef-Client run
- Chef Client modes
- Ohai
- Accessing node information

Attribute

- Motd-Attributes Cookbook
- Setting Attributes
- Basic Attribute priority
- `Include_Recipe`
- Attribute precedence
- Debugging Attributes

Manage Multiple Nodes at Once with Chef Server

- How to install enterprise Chef server manually
- Install enterprise Chef server
- Introducing Idempotence



- Configure enterprise Chef server
- RSA key-pairs
- Testing the connection
- Bootstrapping a node

Community and the Chef-Client Cookbook

- Using community cookbooks
- Chef-Client cookbook
- Knife cookbook site plugin
- Manage Chef supermarket cookbooks on your Chef server using Knife cookbook site
- Chef-Client recipes
- Configure Knife to use a production SSL setup

Chef Zero

Search

- Search from the Command Line
- Search from the Command Line with Knife
- Search in a Recipe Using Test Kitchen

Data Bags

- Basic command line Data Bag usage with Knife
- Creating local users based on Data Bag items in a recipe
- Encrypted Data Bags
- Chef-Vault

Roles

- Create a web server role
- Attributes and roles
- Roles and Search
- Role cookbook



Environments

- Create a Dev environment
- Attributes and environments

Testing

- Testing your Chef automation code
- Testing rationale

Starting at **\$1,495**



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Included in this **Chef Essentials Training**

- 2 days instructor-led training
- Chef Essentials Training training book
- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class*
- Tea, coffee and soda available throughout the day*
- Freshly baked cookies every afternoon*