# Chef Advance Training

Chef is a configuration management tool deals with physical setup and servers including Virtual Machine (VM) serves as to control the infrastructure of an organization. Chef ensures the desired files and software you are expecting to be on a machine are present, configured correctly and working as intended. As Chef can handle thousands of infrastructure of any organization and ensure it’s tasks on every setup correctly.

From Basic Course

4. Cookbooks

a. Overview: Cookbooks

b. Organizing Recipes with Cookbooks

c. Cookbook Components

5. The chef-client

a. Overview: The chef-client run

b. Applying Recipes and Cookbooks

c. The include\_recipe method

2. Templates

a. Overview: Using Template Resources

b. Why Use Templates?

c. Understanding Embedded Ruby

d. Adding Templates to Recipes

3. Other Common Resources

a. Overview: Other Common Resources

b. cookbook\_file

c. remote\_file

d. Execute

e. User and group

Create a Wrapper Cookbook

. Adding Webserver Members

e. Managing Cookbooks with Berkshelf

. Overview: Indexing and Search

f. Exploring Chef Server Indices

1. Data Bags

a. Overview: Organizing Custom Data Sets

b. What's in the Bag?

c. Creating and Managing Data Bags

d. Dynamic Search and Find

e. Creating Users and Groups with Search

f. Encrypting Your Secrets

2. Test Kitchen

l. Drivers

m. Provisioners

n. Suites

o. Platforms

p. Kitchen Commands

q. reading test kitchen output for troubleshooting

#Good to know

. Chef Automate

a. Inspec basics

4. chef enterprise(overview)

# DAY 1

DevOps Concept & Process

* Need for DevOps
* DevOps Culture
* DevOps Tools Configuration Management
* What Is Configuration Management?
* Why You Need a Configuration Management Tool to Automate IT
* What Is Chef?
* Why Chef Might Be a Good Tool for Your Enterprise?
* Chef Development Tools Become a Chef Programmer
* Writing First Chef Recipe
* Chef and Its Terminology
* Chef Syntax and Examples
* Chef Resources, Actions and properties

Writing Cookbooks

# Typography-

* Using Cookbooks
* Developing Your First Cookbook
* Creating the Index File
* Changing the Metadata
* Uploading the Cookbook
* Running the Cookbook
* Documentation in Chef
* Meta info in Chef

Chef Server

* Setup Chef Server in Centos
* Chef Organization
* Config Chef Manage
* Working with Knife and configuration
* Using Chef Serve
* Uploading the Cookbook
* Chef ing Linux Nodes
* Chef ing Windows Nodes
* Running the Cookbook

# Day 2

* Chef Attributes
* Files Operations in Cookbook
* Templates Operations in Cookbook
* Notifications
* Cookbook Dependencies
* Recipe Inclusion
* Data Bags

# Day 3

* Chef Environments
* Chef roles
* Chef Solo
* Push Jobs
* Chef Supermarket
* Chef Configurations Deep Dive

# Day 4

* Chef Code Analysis using Foodcritic
* Chef Unit Testing ChefSpec
* Chef Integration Testing using TestKitchen

# Day 5

* Fundamental of Ruby
* Chef in Windows
* Chef Automate Essentials
* Push Jobs Server
* InSpec