

Server Automation using CHEF

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PreReq

Knowledge on Servers and O/S deployment and administration.

Lab Setup

Oracle virtual Box

2 fresh copy of UBUNTU 14.04 or 16.x images

Visual Studio code

Course Contents

- Introduction to CHEF
 - Infrastructure-As-A-Code
 - Chef Components – 10000 feet overview
 - Chef Server
 - Hosted Chef Server
 - Chef Development kit
 - Chef Nodes
 - Recipes
 - Cookbooks
 - Chef Analytics
 - Chef Push job server

Chef Server Installation

- Deploy Ubuntu 14.04 Server
- SSH to Ubuntu Server
- Install chef-server on Ubuntu 14.04 linux server
- Install chef-manage on chef-server

- Install and configure Chef-Reporting
- Create a user account on hosted chef server
- Create organization on hosted chef server
- Download chef-starter kit

- Deploy a Ubuntu 14.04 server
- Ssh to Ubuntu server
- Install and configure Chef development kit
- Configure knife to interact with your own Chef-server
- Configure knife to interact with your Hosted Chef-server
- Configure SSL based connection to chef server

- Install and configure Chef development kit
- Setup environment variables
- Configure knife to interact with your own Chef-server
- Configure knife to interact with your Hosted Chef-server
- Configure SSL based connection to chef server
- Deploy a Ubuntu 14.04 server
- Register the Ubuntu server under chef server management

- Building server cookbooks
- Create a new cookbook for OS update installation on Ubuntu server
- Write recipe for update of Operating system
- Edit metadata.rb file to include dependency for apache2 cookbook

- Understand and create web role
- Assign web role for chef node
- Validate chef-role is getting assigned to Ubuntu server