

COURSE NAME	
CHEF	
PREREQUISITES	
PRE-REQUISITES: 1. Knowledge of basic UNIX commands. 2. Knowledge of Basic Ruby Programming (At least any programming/scripting language is fine)	
DURATION	
3 Days	
LAB SETUP	
Hardware Requirements Laptop Required with Admin Rights having below configuration	
RAM (GB)	8 GB (more the better)
HDD (GB)	20 GB (more the better)
Operating Systems	Windows 7 minimum
1 AWS Account per participant	https://aws.amazon.com/
1 Opscode account per participant – CHEF 12 hosted chef server (free account)	https://aws.amazon.com/
Internet	Yes. With all incoming & outgoing traffic open with internet connection
Any other required software in Laptop	All Open source & will be discussed in class. Links provided below
Software Required in Laptop 1. Git Bash: https://github.com/git-for-windows/git/releases/download/v2.24.1.windows.2/Git-2.24.1.2-64-bit.exe or latest 2. CHEFDK: https://downloads.chef.io/chefdk/ or latest 3. AWS CLI: https://aws.amazon.com/cli/ or latest 4. Vagrant: https://www.vagrantup.com/downloads.html or latest	
DAY WISE SYLLABUS	

Course Outline and Day-wise Schedule

Disclaimer: The course assumes:

- All hardware, software & connectivity requirements in place.
- Pre-requisites completed by participants.

Day I

- Introduction to IAAS, configuration Management (1 Hour)
- Ruby Basic (1 Hour)
- Architecture of Chef (1 Hour)
- AWS Introduction and Setup (1.5 Hours)
- Installation and Configuration (3.5 Hours)
 - Standalone Chef/ chef-solo
 - Public Chef : client/server
 - Hosted Chef/Multi Tenant Chef
 - Workstation Setup
 - Introduction to Knife
 - Test Node/Client Setup
 - Bootstrapping Linux and Windows Nodes
 - Optionally provision VM on selected platform
 - Dissecting your first chef run
 - OHA!

Day II:

- Node Object (1 Hour)
- In Depth level learning of Cookbooks (3 Hours)
 - Cookbook Recipes Resources
 - Packages, Cookbook Files, Services, Execute Resource, Custom resource creation
 - Run list
 - Not if/ Only if conditionals
 - Notifications
- Roles: Role based attributes and merge order (1,5 Hours)
- Environments (1.5 Hours)
 - Cookbook version constraints, Override attributes and per environment run lists
- Data Bags, Vault (1 Hour)

Day III:

- Test Kitchen (1.5 Hours)
- Berk-shelf (0.75 Hours)
- Food critic (0.75 Hours)
- Rubocop (0.75 Hours)
- Chef Supermarket (0.75 Hours)
- Download and use Cookbook from supermarket (2 Hours)
- CHEF Client Server troubleshooting (1 Hour)
- Enterprise level Best practice (.5 Hours)

