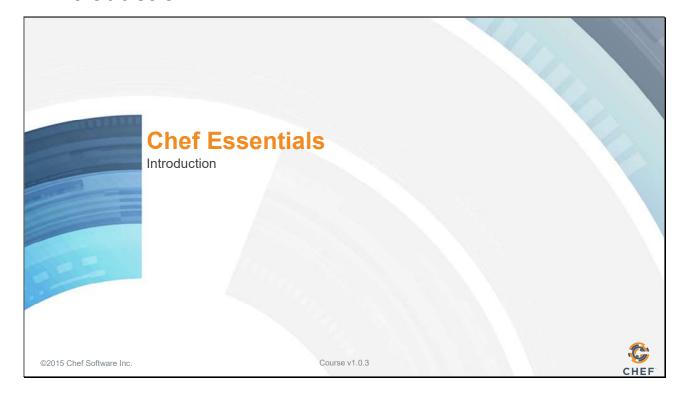
### 1: Introduction



This Chef Essentials course provides a basic understanding of Chef's core components, basic architecture, commonly used tools, and basic troubleshooting methods.

This should provide you with enough knowledge to start using Chef to automate common infrastructure tasks and express solutions to common infrastructure problems.

Instructor Note: Be sure to read Appendix Z for training lab set up notes and additional instructor notes.

#### Slide 2

## **Introduce Yourselves**

Name

Current job role

Previous job roles/background

Experience with Chef and/or config management

**Favorite Text Editor** 

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Slide 3

## **Expectations**

You will leave this class with a basic understanding of Chef's core components, architecture, commonly used tools, and basic troubleshooting methods

You bring with you your own domain expertise and problems. Chef is a framework for solving those problems. Our job is to teach you how to express solutions to your problems with Chef.

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1-3



Chef is not, in itself, a solution to your infrastructure problems. Chef is an automation framework. You bring the domain expertise about your own business and its problems. Chef provides a platform for modeling solutions to those problems. Our job in this class is to work together to teach you how to express solutions to your unique problems with Chef.

Together we get unicorns and rainbows, but we can't have one without the other.

#### Slide 4

## **Course Objectives**

After completing this course, you should be able to:

- > Use Chef Resources to define the state of your system
- > Write and use Chef recipes and cookbooks
- > Automate testing of cookbooks
- > Manage multiple nodes with Chef Server
- Create Organizations
- Bootstrap nodes
- > Assign Roles to nodes
- > Deploy nodes to environments

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### Slide 5

| Agenda  |   |      |
|---|---|------|
| Day 1   | Day 2   |      |
| Getting a Workstation Using Resources Building Cookbooks Test Kitchen Details About a System Desired State and Data | Connecting to Chef Server Community Cookbooks Managing Multiple Nodes Roles Search Environments |      |
| Local Workstation Installation  |   | Fin  |
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Slide 6

## Chef

Chef can automate how you build, deploy, and manage your infrastructure.

Chef can integrate with cloud-based platforms such as Rackspace and Amazon Elastic Compute Cloud to automatically provision and configure new machines.

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1-6



Chef can automate how you build, deploy, and manage your infrastructure. Your infrastructure becomes as versionable, testable, and repeatable as application code enabling you to automate the process of configuring, deploying and scaling servers and applications

Slide 7

## Chef

Chef is a large set of tools that are able to be used on multiple platforms and in numerous configurations.

Learning Chef is like learning a language. You will reach fluency very fast but it will take practice until you become comfortable.

### A great way to learn Chef is to use Chef

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1-7



Chef is a large set of tools that are able to be used on multiple platforms and in numerous configurations. We will have time to only explore some of its most fundamental pieces.

Learning Chef is like learning a language. You will reach fluency very fast but it will take practice until you become comfortable.

Slide 8

## **Chef Fundamentals**

**Ask Me Anything**: It is important that we answer your questions and set you on the path to find more.

**Break It**: If everything works the first time go back and make some changes. Break it!

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1-8



**Ask Me Anything**: All of us are coming here with *unique* experiences and from *unique* teams that are using Chef in *unique* ways. It is important that we answer your questions and set you on the path to find more.

**Break It**: If everything works the first time go back and make some changes. Break it! It's rare that you have a safe space like this to explore. Sometimes it's more important to know what something looks like when it does not work than when it does work.

Slide 9

# **Chef Lab System Architecture**

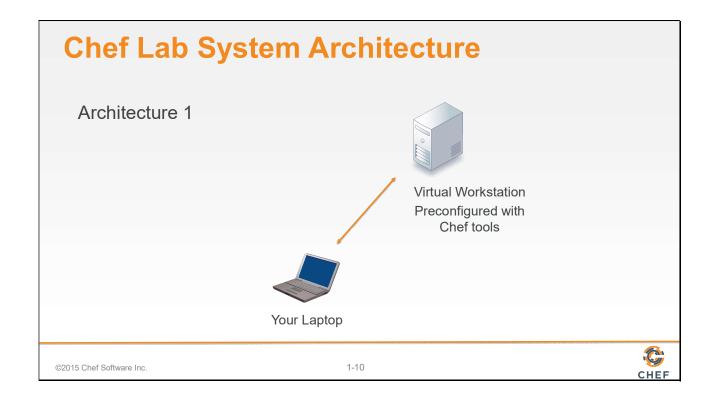
In this course you will use two different architectures:

- 1. Initially, you'll use a virtual workstation so you can start using Chef right away.
- 2. Later, you'll use a common production type of architecture that includes a Chef Server.

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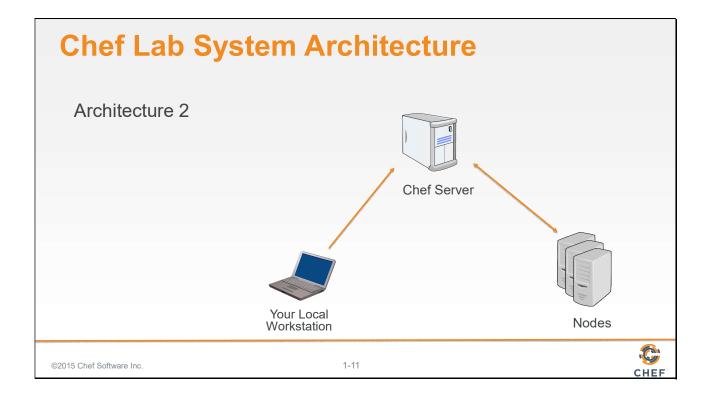


Slide 10



This is the architecture you'll start using in a few minutes. To ensure the smoothest setup experience, you'll be using a virtual workstation with all the necessary tools installed so you can start using Chef right away.

Slide 11

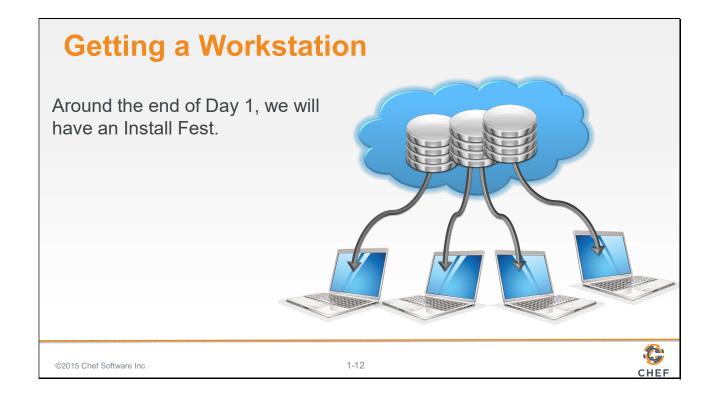


This is the architecture you'll be using later in this course. When using this architecture, the Chef tools will be installed on your laptop and you'll perform your configurations locally before pushing them to the Chef server and ultimately to the nodes you will be managing.

In this way, when you complete this course you will have a code repository on your laptop that can be used and modified to solve real business problems.

We'll discuss the items in this architecture in more detail later in this class.

Slide 12



Around the end of Day 1, we will have an Install Fest.

During that time we will install all the necessary tools on your workstation (your laptop) and troubleshoot any installation issues you may experience.

#### Slide 13

# **Configuring a Workstation**

We need the following:

- Chef Development Kit (ChefDK)
- Editor
- git (optional)

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#### Slide 14

## Hands-on Legend

> GE or Group Exercise: All participants and the instructor do this task together with the instructor often leading the way and explaining things as we proceed.

> Lab: You perform this task on your own.

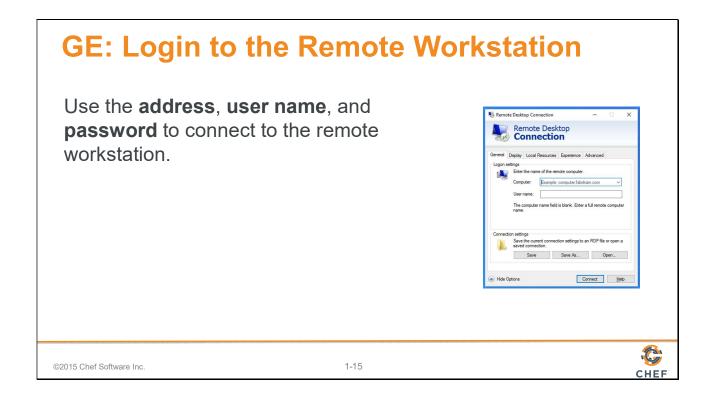
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1-14



In this course, various slides and pages will be tagged with either Group Exercise (or GE), or Lab. This slide defines those tags.

Slide 15



In this course, various slides and pages will be tagged with either Group Exercise (or GE), or Lab. This slide defines those tags.

#### Slide 16

