CHEF™

CHEF

Configuration Management

Why CHEF as we already have ansible?

- What if SSH connection broke?
- What if applied configuration is modified?
- How to manage your infrastructure?
- What about performance?
- Support for heterogenous environments?

How CHEF helps?

- Agentfull
- Runs in desired frequency continuously
- You have database in Chef.
- We have MQ setup in Chef.
- Agent is having heterogenous support.

Chef Architecture

Chef works on Ruby

- https://docs.chef.io/ruby.html

Ruby: Syntax Validation

Ruby: Variables

- Define Variables
- Access Variables

Ruby: Quotes

- Single Quotes
- Double Quotes
- Interpolation

Ruby: Arrays

- Arrays
- WhiteSpace Arrays
- Hash

Ruby: Statements

- IF statement
- CASE statement

Ruby: Loops

- WHILE Loop
- EACH Loop using white space array

Ruby: Statements

- IF statement
- CASE statement

Ruby: Methods

- Create a Method
- Access a Method and Parse custom Values

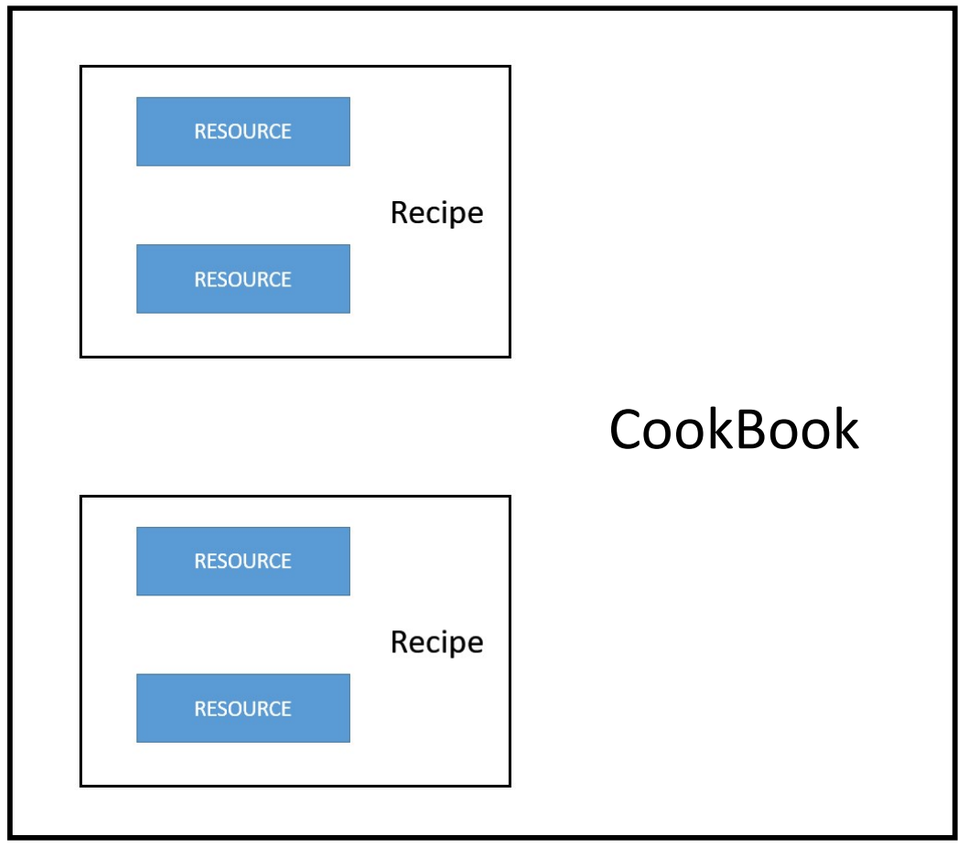
Installations

- Install Chef Workstation.
- Install Chef Server
- Install Chef Agents.

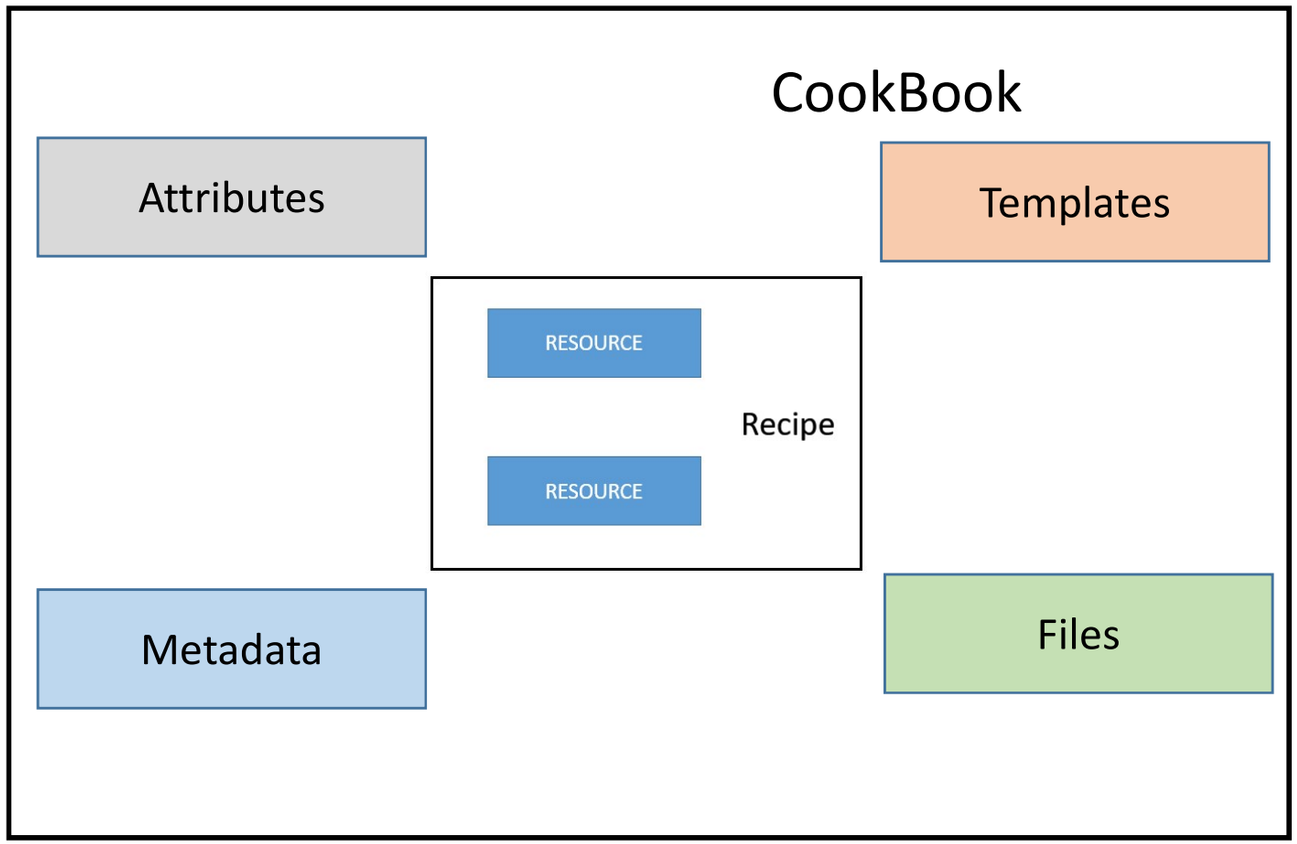
Introduction to Knife Command

Chef Terminology

Chef Terminology



Chef Terminology



CookBook Directory Structure

```
% tree cookbooks/smartmontools
cookbooks/smartmontools
├── README.md
├── attributes
├── definitions
├── files
│   └── default
├── libraries
├── metadata.rb
├── providers
├── recipes
│   └── default.rb
├── resources
└── templates
    └── default

10 directories, 3 files
```

Workstation Server Config Setup

Create CookBooks

- Create Cookbook.
- Update metadata
- Upload Cookbook
- Cookbook Versions