Lab Exercise 3: Cookbooks, Recipes, and Resources

Lab Objectives

- Create a new cookbook
- Write a simple recipe with two resources
- Run Chef with the cookbook on a node

Acceptance Criteria

- Directory `/var/www` is created and owned by www-data user.
- File `/var/www/index.html` is rendered from a template.
- Answer the questions.

Create webserver Cookbook

Create a cookbok named `webserver` in the cookbooks directory. It should have a `default.rb` recipe that configures two resources:

- The `/var/www` directory, which should be owned by the www-data user.
- An `index.html` file in `/var/www` rendered from a template, also owned by www-data.

The source template should contain information about the node from attributes. Minimum:

- Platform and Platform version (`node['platform']`, `node['platform_version']`)
- Default IP address (`node['ipaddress']`)
- Fully qualified domain name (`node['fqdn']`)
- EC2 public IP address (`node['ec2']['public_ipv4']`)
- The node's run list (`node.run_list.to_s`)

Create the `metadata.rb` file with the cookbook's initial version. Use any version number you like using the form X.Y.Z, e.g., "1.0.0" or "0.5.2".

Upload the cookbook to the Chef Server.

Note: We are not installing Apache HTTPD as part of this exercise. The `index.html` file can be viewed as plain text.

Apply webserver Cookbook to a node

Add the `webserver` cookbook's default recipe to your existing node from the previous exercise using Knife.

Log into the node and run `chef-client`. Turn debug logging on to see more information about the Chef run.

Questions

1. What is the run list of the node?
2. What resources were created on the node?
3. What is the content of the file `/var/www/index.html`?