Instructor Setup

This guide describes requirements set up an environment that Chef Fundamentals students use for hands on exercises.

Specifics are written for Amazon EC2. If another environment is used, then adjust accordingly based on the requirements.

Base Operating System

The target systems used by the Chef Fundamentals exercises are assumed to be Ubuntu Server 10.04 or higher.

Required Network Access

Students will configure systems that need to be accessed on the public-facing IP address through the following TCP ports:

- 22
- 80 and 443
- 22002

Login Credentials

Students will log into the systems with a common username and password. For consistency, use the password "opstrain_0150".

EC2 Implementation

Create Security Group

Use the EC2 API tools to manage the `fnd` security group as described below. If multiple Chef Fundamentals classes are happening at the same time and using the same EC2 account, modify the security group name accordingly. It may be desirable to use a different region, e.g. when conducting a class in Europe or Asia use the appropriate region. Append "`--region REGION`" to the commands.

```
export labgroup=fnd
ec2addgrp ${labgroup} -d ${labgroup}
ec2auth ${labgroup} -P tcp -s 0.0.0.0/0 -p 22
ec2auth ${labgroup} -P tcp -s 0.0.0.0/0 -p 443
ec2auth ${labgroup} -P tcp -s 0.0.0.0/0 -p 22002
ec2auth ${labgroup} -P tcp -s 0.0.0.0/0 -p 8080
ec2auth ${labgroup} -P tcp -s 0.0.0.0/0 -p 80
```

Bootstrap Templates

Use the bootstrap template found in `.chef/bootstrap/fnd3-lab.erb` to create new instances with the login credentials set. For example, this will configure the `ubuntu` user to log in with the password "opstrain_0150".

Launch Instances

This step is used for the systems which will be used by students as nodes to configure. For each student, execute the following `knife ec2` command.

```
knife ec2 server create \
  -f m1.small -I $lucid_small \
  -x ubuntu -d fnd3-lab
```

If another region is required, append "`--region REGION`" and "`-Z ZONE`" to specify the region and availability zone in that region.

Replace "$lucid_small" with the current AMI from Canonical's list of AMIs for Ubuntu:

- http://uec-images.ubuntu.com/releases/10.04/release/