

Appendix Z: Course-wide Instructor Notes

1. Workstation Setup

1. Open the AWS site from here: <https://aws.amazon.com/>
 - Login Credentials for Chef instructors: training-aws@chef.io
 - Password: Contact Chef Training Services if you don't know it or how to obtain it. training@chef.io
 - Partner credentials should be provided by Chef directly to partners.
2. Click the first link in column **EC2 Virtual Servers in the Cloud**
3. From the navigation pane on the left, select **Images/AMIs**. The "Step 1" page displays with a list of available AMIs.
4. Select **Chef Essentials Windows 2012 - 1.0.4** from the list of options.
5. Click **Launch**. The "Step 2" page displays.
6. Select the first **m4.xlarge** from the list provided and click **Next: Configure Instance Details** at the bottom of the screen. The "Step 3" page displays.
7. Enter the **Number of Instances**.

Note: You will need 1 workstation for each participant enrolled in the class and one for yourself.

8. Set the **IAM Role** to *test-kitchen*.
9. Click **Next: Add Storage** at the bottom of the page. The "Step 4" page displays. [Don't change anything on this page].
10. Click **Next: Tag Instance** at the bottom of the page. The "Step 5" page displays.
11. Enter a **Value**.

Note: A recommended naming convention for the instances: [TRAINER'S INITIALS] - [CLASS NAME] - [CLASS DATE]

12. Click **Next: Configure Security Group**. The "Step 6" page displays.
13. Click the **Select an existing security group** radio button. A list of security groups displays.
14. Select **all-open**.
15. Click **Review and Launch** at the bottom of the screen. The "Step 7" page displays.
16. After you review the instances, click **Launch**. The "Select a key pair" window displays.
17. Confirm that this is set to **Choose an existing key pair** and click the acknowledgement check box.
18. Click **Launch Instances**. The "Launch Status" page displays.
19. Click **View Instances**. The instances list displays.
20. From here, copy all of the instances and create a gist file to share with the class.
21. Use goo.gl to shorten the URL to the gist file.

Note: The login credentials and password for the AMIs used in class are:

Username: Administrator

Password: Cod3Can!

2. Node Setup

1. Open the AWS site from here: <https://aws.amazon.com/>
 - Login Credentials for Chef instructors: training-aws@chef.io
 - Password: Contact Chef Training Services if you don't know it or how to obtain it. training-feedback@chef.io
 - Partner credentials should be provided by Chef directly to partners.
2. Click the first link in column **EC2 Virtual Servers in the Cloud**
3. From the navigation pane on the left, select **Images/AMIs**. The "Step 1" page displays with a list of available AMIs.
4. Select **Essentials Windows 2012 NODE - 1.0.2** from the list of options.
5. Click **Launch**. The "Step 2" page displays.
6. Select the first **m4.xlarge** from the list provided and click **Next: Configure Instance Details** at the bottom of the screen. The "Step 3" page displays.
7. Enter the **Number of Instances**.

Note: You will need 3 instances for each learner enrolled in the class - and three for yourself.

8. Click **Next: Add Storage** at the bottom of the page. The "Step 4" page displays. [Don't change anything on this page].
9. Click **Next: Tag Instance** at the bottom of the page. The "Step 5" page displays.
10. Enter a **Value**.

Note: A recommended naming convention for the instances: [TRAINER'S INITIALS] - [CLASS NAME] - [CLASS DATE]

11. Click **Next: Configure Security Group**. The "Step 6" page displays.
12. Click the **Select an existing security group** radio button. A list of security groups displays.
13. Select **all-open**.
14. Click **Review and Launch** at the bottom of the screen. The "Step 7" page displays.
15. After you review the instances, click **Launch**. The "Select a key pair" window displays.
16. Confirm that this is set to **Choose an existing key pair** and click the acknowledgement check box.
17. Click **Launch Instances**. The "Launch Status" page displays.
18. Click **View Instances**. The instances list displays.
19. From here, copy all of the instances and create a gist file to share with the class.
20. Use goo.gl to shorten the URL to the gist file.

Note: The login credentials and password for the AMIs used in class are:

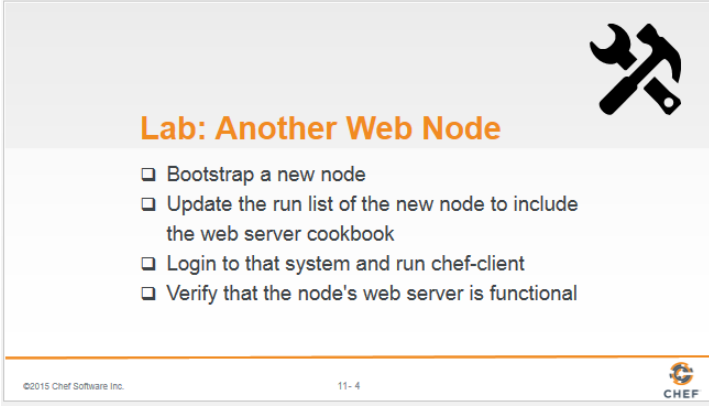
Username: Administrator

Password: Cod3Can!

21. How to Use Lab Slides

Regarding the "Lab" exercises (not the Group Exercises), you should encourage participants to use the high-level hammer/wrench "Lab" slide steps first, and then resort to the subsequent detailed step slides if the participants need the details to complete the lab. You can still use the subsequent detailed step slides as a vehicle to review each lab. For example:

This is a high-level hammer/wrench "Lab" instruction slide. Encourage participants to complete the lab using this high level hammer/wrench "Lab" slide first.



The slide is titled "Lab: Another Web Node" in orange text. In the top right corner, there is a black icon of a hammer and a wrench crossed. Below the title, there is a list of four steps, each preceded by a square checkbox:

- ☐ Bootstrap a new node
- ☐ Update the run list of the new node to include the web server cookbook
- ☐ Login to that system and run chef-client
- ☐ Verify that the node's web server is functional

At the bottom of the slide, there is a thin orange line. Below this line, on the left, is the text "©2015 Chef Software Inc.". In the center is "11- 4". On the right is the Chef logo, which consists of a circular icon with a stylized 'C' and the word "CHEF" below it.

If some participants can't complete the lab based on the above slide, they are free to follow the subsequent detailed step slides, such as these:



The slide is titled "Lab: Bootstrap the New Node" in orange text. In the top left corner, there is a small laptop icon. Below the title, there is a terminal window with a black background and white text. The terminal shows the command and its output:

```
$ knife bootstrap FQDN -x USER -P PWD --sudo -N node3
Connecting to ec2-54-210-86-164.compute-1.amazonaws.com
ec2-54-210-86-164.compute-1.amazonaws.com Starting first Chef Client run...
ec2-54-210-86-164.compute-1.amazonaws.com Starting Chef Client, version 12.3.0
ec2-54-210-86-164.compute-1.amazonaws.com resolving cookbooks for run list: []
ec2-54-210-86-164.compute-1.amazonaws.com Synchronizing Cookbooks:
ec2-54-210-86-164.compute-1.amazonaws.com Compiling Cookbooks...
ec2-54-210-86-164.compute-1.amazonaws.com [2015-09-16T17:36:14+00:00] WARN: Node node3 has an empty run list.
ec2-54-210-86-164.compute-1.amazonaws.com Converging 0 resources
ec2-54-210-86-164.compute-1.amazonaws.com
ec2-54-210-86-164.compute-1.amazonaws.com Running handlers:
ec2-54-210-86-164.compute-1.amazonaws.com Running handlers complete
ec2-54-210-86-164.compute-1.amazonaws.com Chef Client finished. 0/0 resources updated in
```

At the bottom of the slide, there is a thin orange line. Below this line, on the left, is the text "©2015 Chef Software Inc.". In the center is "11- 5". On the right is the Chef logo, which consists of a circular icon with a stylized 'C' and the word "CHEF" below it.

Lab: Verify the New Node

```
$ knife node show node3
```

```
Node Name: node3
Environment: _default
FQDN: ip-172-31-0-127.ec2.internal
IP: 54.210.86.164
Run List:
Roles:
Recipes:
Platform: centos 6.6
Tags:
```

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You can also use the above detailed slides as a vehicle for reviewing the labs.