

Appendix Z: Course-wide Instructor Notes

1. Training Lab System Setup

Note: You and the students will need to use two different AMIs for this Compliance course. One for Linux and one for Windows. The following steps cover Linux. The Windows AMI steps will follow the Linux steps. Both target AMIs must use inspec 0.14.7. or higher. inspec 0.14.7. is installed on both AMIs.

Linux AMI:

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 **Compliance - CentOS 6.7 - 1.0.6 (ami-740b321e)** from the list of options.
5. Click **Launch**. The "Step 2" page displays.
6. Select the first **Micro Instance** 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 2 instances for each student enrolled in the class and 2 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 Linux AMIs used in class are chef/chef. You'll need to tell the students that at the appropriate time.

Windows AMI:

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 **Compliance - Windows 2012 - 1.0.2 – (ami-570c353d)** from the list of options.
5. Click **Launch**. The "Step 2" page displays.
6. Select the first **Micro Instance** 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 instance for each student enrolled in the class and 1 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.

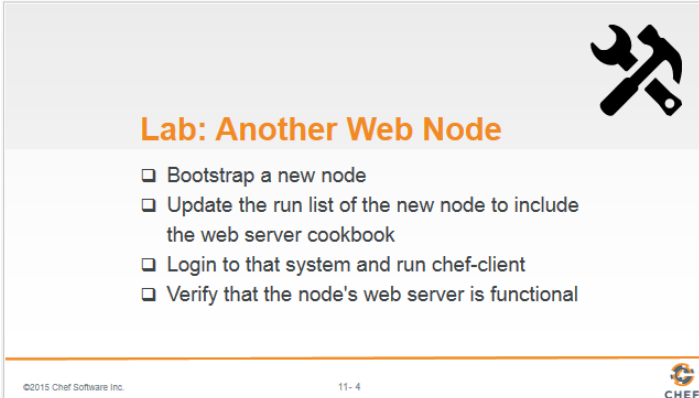
Note: The login credentials and password for the Windows AMIs used in class are Administrator / Cod3Can! You'll need to tell the students that at the appropriate time.

Note: Answers to quizzes are provided as instructor notes below each quiz slide in the instructor guide.

2. How to Use Lab Slides

Regarding the "Lab" exercises if present (not the Group Labs), you should encourage students to use the high-level hammer/wrench "Lab" slide steps first, and then resort to the subsequent detailed step slides if the students 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 students to complete the lab using this high level hammer/wrench "Lab" slide first.



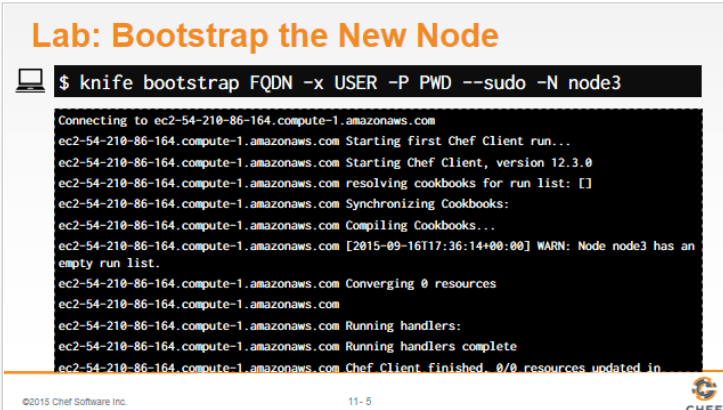
The slide features a grey header with a hammer and wrench icon on the right. The title "Lab: Another Web Node" is in orange. Below it is a list of four steps, each preceded by a checkbox. The footer contains copyright information, a slide number, and the Chef logo.

Lab: Another Web Node

- ☐ 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

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If some students 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 features a grey header with the title "Lab: Bootstrap the New Node" in orange. Below the title is a terminal window icon and a command prompt. The main content is a screenshot of terminal output showing the steps of bootstrapping a new node. The footer contains copyright information, a slide number, and the Chef logo.

Lab: Bootstrap the New Node

```
$ 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
```


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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.