

2: Installing Chef Compliance



Slide 2

Objectives

After completing this module, you should be able to:

- Install the Chef Compliance server.
- Perform initial configuration of the Compliance server.
- Launch the Compliance Web UI.

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CONCEPT




Compliance Installation Options

You can install the Chef Compliance server as a an Amazon Machine Images (AMI) instance or as a Standalone installation.

The standalone installation of Chef Compliance server creates a working installation on a single server.

In this course we will use the most common method--the Standalone method.

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You can install the Chef Compliance server as a an Amazon Machine Images (AMI) instance or as a Standalone installation.

The standalone installation of Chef Compliance server creates a working installation on a single server.

This installation is also useful when you are installing Chef Compliance in a virtual machine, for proof-of-concept deployments, or as a part of a development or testing loop

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EXERCISE



Group Lab: Standalone Installation


Standalone Installation

Objective:

- ☐ ssh in to your Compliance Server node
- ☐ Download and install the chef-compliance-x package on your node
- ☐ Use chef-compliance-ctl to initially configure Chef Compliance server
- ☐ Run the Compliance Web UI

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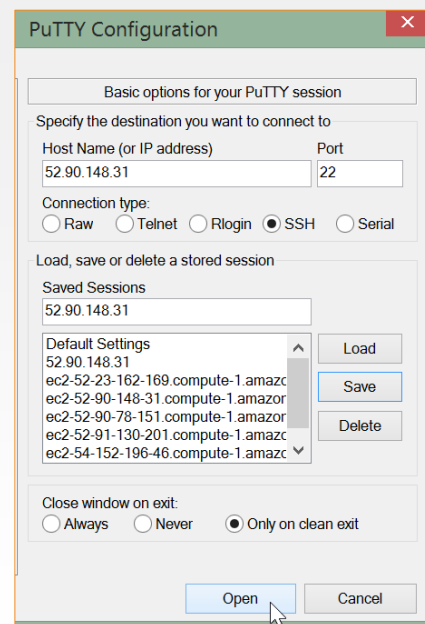
In this group lab you will perform the installation and initial configuration tasks listed in this slide.

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GL: Standalone Installation

- ssh in to the node you want to install the Compliance server on.

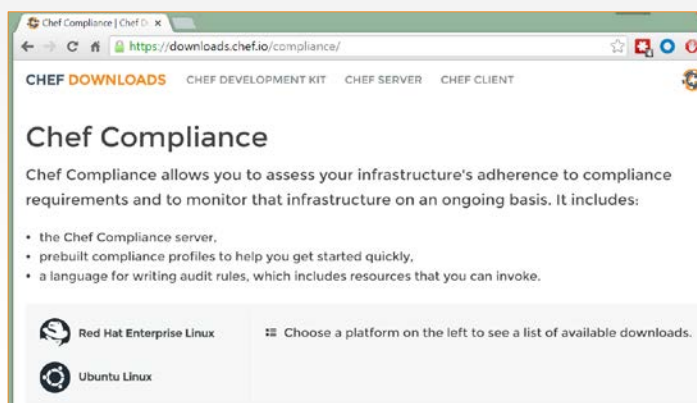
Here is an example of using Putty to do so.



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GL: Standalone Installation

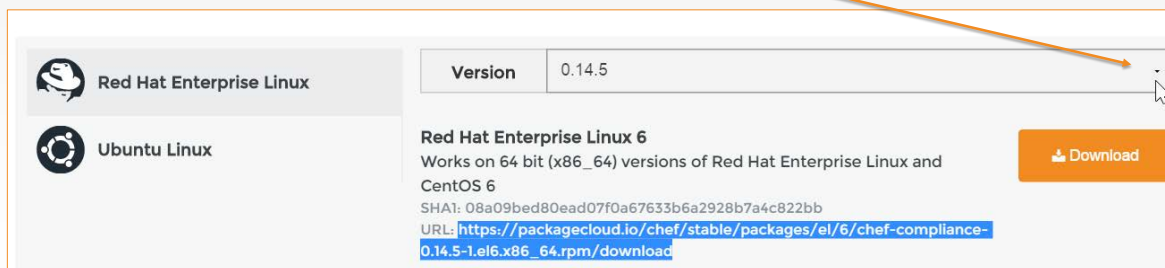
- From your local laptop, use a web browser to navigate to <https://downloads.chef.io/compliance/>



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GL: Standalone Installation

- From the resulting web page, click the **Red Hat Linux** link and then click the **Version** button.
- Select the version from the **Version** pull-down as indicated by the instructor.

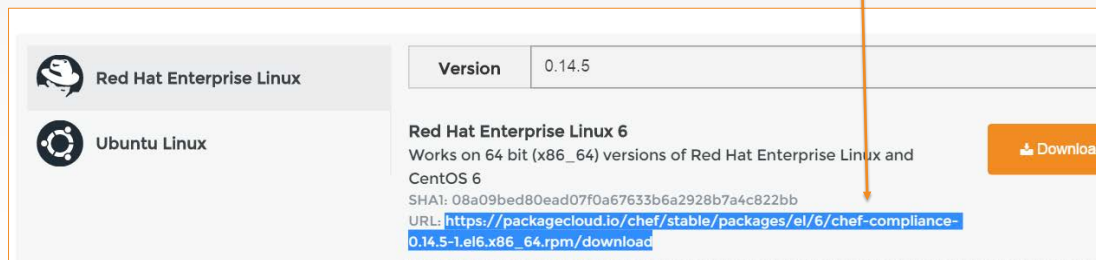


Instructor Note: This course has been tested on Compliance Server v0.14.5.

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GL: Standalone Installation

- Highlight and copy the URL for the Red Hat Enterprise Linux 6 version the instructor indicated. Do not click the Download button.



The screenshot shows the Chef Compliance web interface. On the left, there are two tabs: "Red Hat Enterprise Linux" and "Ubuntu Linux". The "Red Hat Enterprise Linux" tab is selected. On the right, there is a table with the following information:

Version	0.14.5
Red Hat Enterprise Linux 6 Works on 64 bit (x86_64) versions of Red Hat Enterprise Linux and CentOS 6 SHA1: 08a09bed80ead07f0a67633b6a2928b7a4c822bb URL: https://packagecloud.io/chef/stable/packages/el/6/chef-compliance-0.14.5-1.el6.x86_64.rpm/download	

An orange arrow points to the URL. A "Download" button is visible on the right side of the table.

From the resulting web page, highlight and copy the URL for the **Red Hat Enterprise Linux 6** version Do not click the Download button. We don't want to download this directly to your laptop but instead we will download it directly to our node.

Instructor Note: This course has been tested on Compliance Server v0.14.5.

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GL: Install and Install Compliance Package



```
$ sudo rpm -Uvh  
https://packagecloud.io/chef/stable/packages/el/6/chef-compliance-  
0.9.5-2.elX.x86_64.rpm/download
```

```
Retrieving https://packagecloud.io/chef/stable/packages/el/6/chef-  
compliance-0.9.5-2.el6.x86_64.rpm/download
```

```
warning: /var/tmp/rpm-tmp.4MgmGw: Header V4 DSA/SHA2 Signature,  
key ID 83ef826a: NOKEY
```

```
Preparing...
```

```
##### [200%]
```

```
You're about to install chef-compliance!
```

```
2:chef-compliance
```

```
##### [200%]
```

Execute **sudo rpm -Uvh https://packagecloud.io/chef/stable/packages/el/6/chef-compliance-0.9.5-2.elX.x86_64.rpm/download** but using the URL you just copied to download and install the Compliance package. This could take some time.

Note: The compliance package will be named **download** at this point.

Instructor Note: The X in this part of the file name - 0.9.2-2.elX - was added so students will paste the latest version and not try to copy/paste the above command verbatim. It could take about a minute to download Compliance server.

GL: Initial Configuration of Compliance



```
$ sudo chef-compliance-ctl reconfigure
```

```
...  
- change mode from '' to '0644'  
Recipe: sysctl::service  
  * service[procps] action start  
    - start service service[procps]  
  
Running handlers:  
Running handlers complete  
Chef Client finished, 228/224 resources updated in 259.522030572  
seconds  
chef-compliance Reconfigured!
```

This reconfiguration process could take 5 or more minutes to complete.

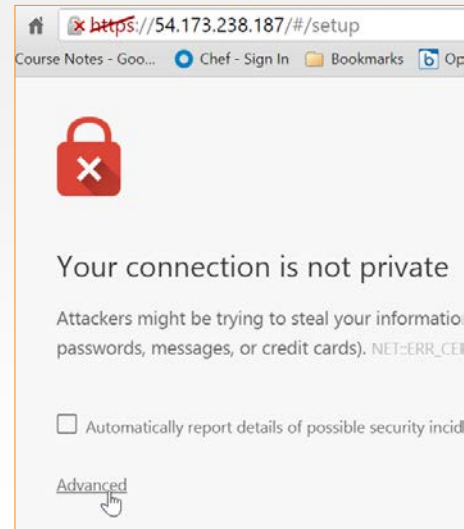
Important: Do not use Ctrl c while this is running.

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GL: Configure the Compliance Server

- From your laptop, open a web browser and point it to:

https://IPADDRESS/#/setup where IPADDRESS is the IP address you are using for your Compliance Server.
- For example
https://54.173.238.187/#/setup
- Click **Advanced** from the warning page.

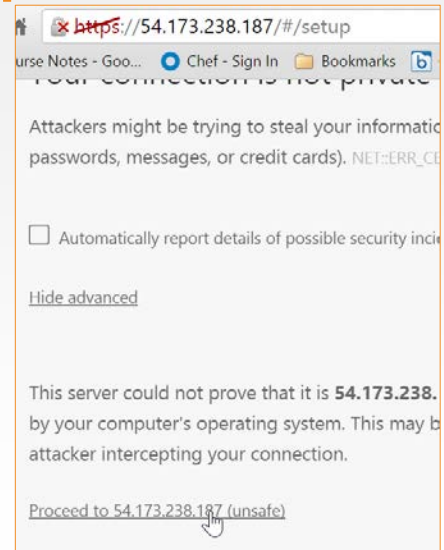


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GL: Configure the Compliance Server

- Click the **Proceed to 54.173.238.xxx ...** link.

Note: We have not set up SSL so the https strikethrough and warning is fine for now.



We have not set up SSL so the https strikethrough is fine for now. In the workplace you would want to use SSL for connections to your Compliance Web UI.

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GL: Configure the Compliance Server

- From the resulting page, click the **Setup Chef Compliance** button.



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GL: Configure the Compliance Server

- Accept the Online Master License and Services Agreement.
- Create an Administrator Account using **admin/admin** for credentials.

prejudice to its other remedies under this Agreement or otherwise. The parties to this Agreement are independent contractors and this Agreement will not establish any relationship of partnership, joint venture, employment, franchise, or agency between the parties. Neither party will have the power to bind the other or incur obligations on the other's behalf without the other's prior written consent.

[Back](#)[Accept](#)

Create An Administrator Account

Name:

admin *

Username:

admin *

Password:

***** *

[Back](#)[Next](#)

In the workplace you should of course create a more secure password.

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GL: Configure the Compliance Server

- On the resulting page click the Configure button.

Review

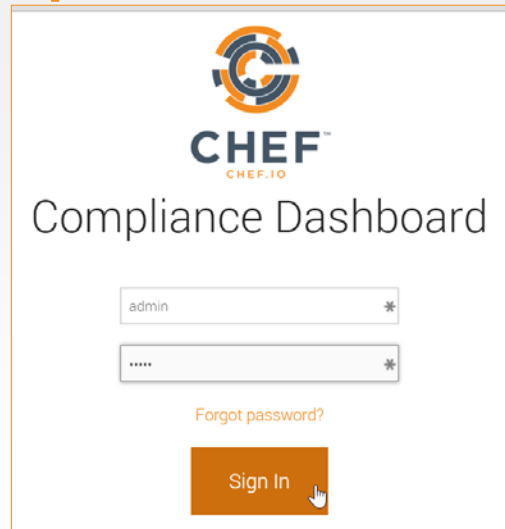
Username	admin
Name	admin
Accept EULA	Yes

[Back](#) [Configure](#)

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GL: Configure the Compliance Server

- On the resulting page sign in using admin/admin.

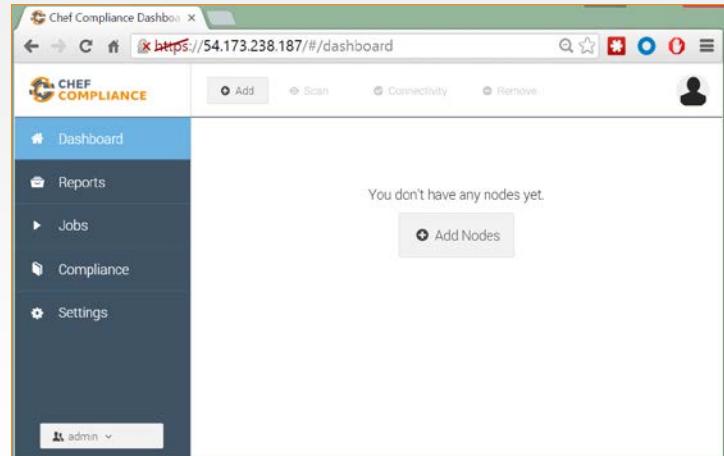


The screenshot shows the Chef Compliance Dashboard login interface. At the top is the Chef logo (a stylized 'C' in a circle) and the text 'CHEF' with 'CHEF.IO' underneath. Below this is the title 'Compliance Dashboard'. There are two input fields: the first contains 'admin' and the second contains six asterisks. Both fields have a small asterisk icon on the right. Below the password field is a link that says 'Forgot password?'. At the bottom is an orange 'Sign In' button with a mouse cursor icon pointing at it.

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GL: Configure the Compliance Server

You should now see an empty Compliance Dashboard.




In the workplace you would want to use SSL for connections to your Compliance Web UI.

https://docs.chef.io/install_compliance.html > Configure SSL

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CONCEPT



Compliance Upgrades

If at some point you want to install a newer version of Chef Compliance, you can simply install the new version over the old version as follows:

1. `sudo rpm -Uvh https://packagecloud.io/chef/stable/packages/<rest of filename>`
2. `sudo chef-compliance-ctl reconfigure`
3. `sudo chef-compliance-ctl restart`
4. Relaunch the Compliance Web UI

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If you needed to downgrade Compliance to a previous version, the `--oldpackage` option will do that for you. In the following example, the `https://package...` would be the version of the old package that you want to downgrade to:

```
sudo rpm -Uvh --oldpackage https://packagecloud.io/chef/stable/packages/el/6/chef-compliance-0.9.6-1.el6.x86_64.rpm/download
```

...and then run these commands:

```
sudo chef-compliance-ctl reconfigure
sudo chef-compliance-ctl restart
```

Review Questions

1. What can this command be used for?

```
`sudo chef-compliance-ctl reconfigure`
```

2. What does this command do?

```
`sudo rpm -Uvh https://packagecloud.io/chef/stable/packages/<rest  
of filename>`
```

Instructor note answers:

1. It can be used to initially configure a new installation or to reconfigure an upgrade or downgrade of the Compliance Server software.
2. It downloads AND installs the Compliance Server software.

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