



Compliance Automation with InSpec

Nathen Harvey - @nathenharvey



Learning Lab

Join Slack Team & Channel

- <http://community-slack.chef.io>
- #CHANNEL-NAME



#CHANNEL-NAME

Find your IP Address



Login to remote workstation



```
$ ssh chef@IP_ADDRESS
```

```
The authenticity of host '52.54.113.210 (52.54.113.210)' can't be  
established.
```

```
ECDSA key fingerprint is
```

```
SHA256:zAtoe029XbhRNvwg542cuh4qsKCEaX8hNI1E0Cbgd3I.
```

```
Are you sure you want to continue connecting (yes/no)?
```

Login to remote workstation



```
$ ssh chef@IP_ADDRESS
```

```
The authenticity of host '52.54.113.210 (52.54.113.210)' can't be  
established.
```

```
ECDSA key fingerprint is
```

```
SHA256:zAtoe029XbhRNvwg542cuh4qsKCEaX8hNI1E0Cbgd3I.
```

```
Are you sure you want to continue connecting (yes/no)? yes
```


Login to remote workstation



```
$ ssh chef@IP_ADDRESS
```

```
The authenticity of host '52.54.113.210 (52.54.113.210)' can't be established.
```

```
ECDSA key fingerprint is
```

```
SHA256:zAtoe029XbhRNvwg542cuh4qsKCEaX8hNI1E0Cbgd3I.
```

```
Are you sure you want to continue connecting (yes/no)? Yes
```

```
Warning: Permanently added '52.54.113.210' (ECDSA) to the list of known hosts.
```

```
chef@52.54.113.210's password:
```

Login to remote workstation



```
$ ssh chef@IP_ADDRESS
```

```
The authenticity of host '52.54.113.210 (52.54.113.210)' can't be established.
```

```
ECDSA key fingerprint is
```

```
SHA256:zAtoe029XbhRNvwg542cuh4qsKCEaX8hNI1E0Cbgd3I.
```

```
Are you sure you want to continue connecting (yes/no)? Yes
```

```
Warning: Permanently added '52.54.113.210' (ECDSA) to the list of known hosts.
```

```
chef@52.54.113.210's password: chef
```


Touch a file with your name



```
$ touch firstname-lastname
```

List your home directory



```
$ sleep 60 && ls -t
```

```
firstname-lastname cookbooks Berksfile profiles  
nodes Berksfile.lock config.json
```

Verify the installation



```
$ which inspect
```

```
/opt/chefdk/bin/inspect
```

Verify the installation



```
$ inspec version
```

```
1.11.0
```

```
Your version of InSpec is out of date! The latest version is 1.15.0.
```

Verify the installation



```
$ which chef
```

```
/opt/chefdk/bin/chef
```

Verify the installation



```
$ chef --version
```

```
Chef Development Kit Version: 1.2.22
```

```
chef-client version: 12.18.31
```

```
delivery version: master (0b746cafed65a9ea1a79de3cc546e7922de9187c)
```

```
berks version: 2017-03-02T09:46:48.762338 20503]
```

```
2017-03-02T09:46:48.762505 20503] 2017-03-02T09:46:48.762618 20503]
```

```
2017-03-02T09:46:48.762722 20503] 2017-03-02T09:46:48.791141 20503]
```

```
2017-03-02T09:46:48.791248 20503] 5.6.0
```

```
kitchen version: 1.15.0
```


Chef DK - The Chef Development Kit

. Definitive tooling for local development of Chef code & Infrastructure as Code development

FAST INEXPENSIVE TESTING

Foodcritic

Test Your “Chef Style”

- Validate your Chef code against Chef best practices
- Extend with rules to enforce organizational Chef development best practices
- Enforce compliance & security practices

CookStyle

Validate your Ruby

- Validate your Chef code against Ruby best practices
- Identify potential Ruby errors
Unclosed strings, etc.
- Identify style/convention that helps write better code
Single quotes vs. double quotes

ChefSpec

Simulate Chef

- Validate your Chef code will run
- Testing for more Chef advanced use cases
- Useful for regression testing

DEEP INTEGRATION TESTING

Test Kitchen

Let's do this (almost) for real

- Executes your Chef code on an instance or container
- Integrates with Cloud and Virtualization providers
- Validate your Chef code locally before sharing
- Speed development of Chef Cookbooks

InSpec

Verify automation results & ensure compliance

- Assert the intention of your Chef code
- Verify on live systems that your Chef code produced the correct result
- Confirm your Chef code didn't not produce compliance drift

Join Slack Team & Channel

- <http://community-slack.chef.io>
- #CHANNEL-NAME



#CHANNEL-NAME