Learning Lab

INSPEC

CHEF

Join Slack Team & Channel

- http://community-slack.chef.io
- #SLACK_CHANNEL_NAME

#CHANNEL_NAME

INSPEC

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:zAtoeO29XbhRNvwg542cuh4qsKCEaX8hNIlEOCbgd3I.

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

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```

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established.

ECDSA key fingerprint is
SHA256:zAtoeO29XbhRNvwg542cuh4qsKCEaX8hNIlEOCbgd3I.

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:
```

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```
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SHA256:zAtoeO29XbhRNvwg542cuh4qsKCEaX8hNIlEOCbgd3I.

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
```
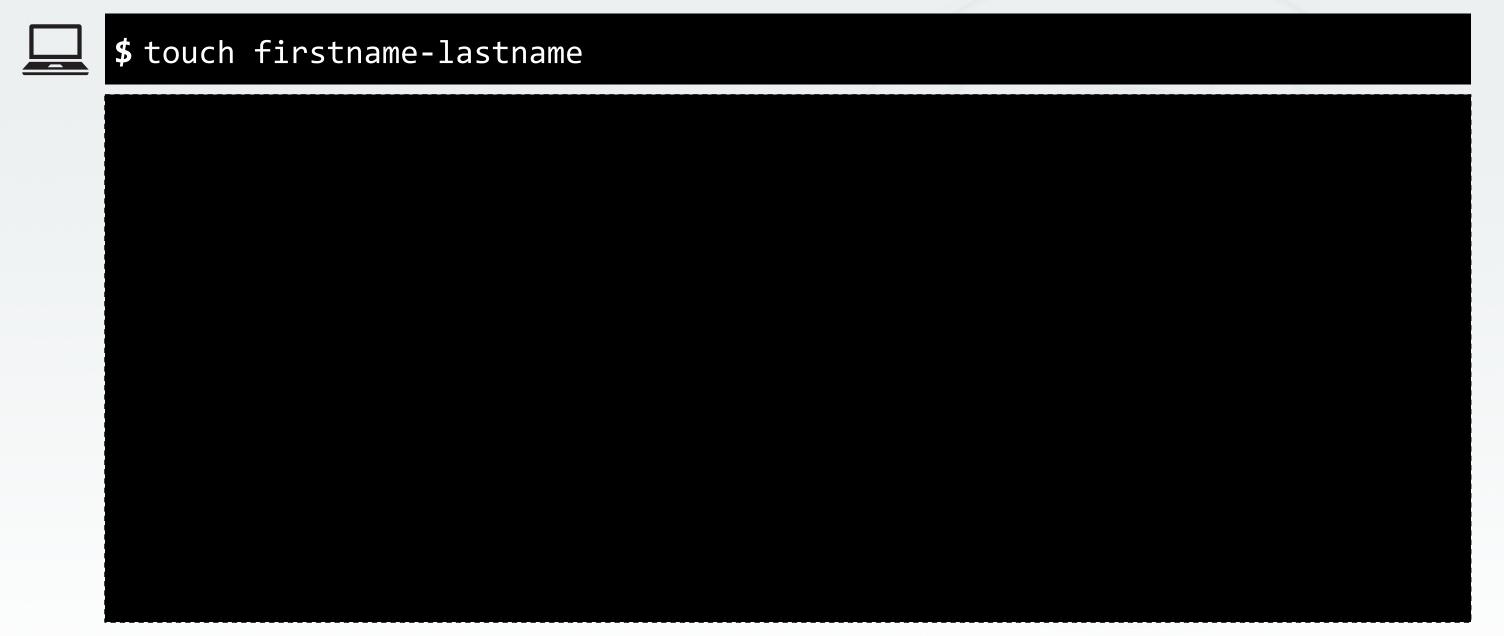
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Touch a file with your name

```
$ touch firstname-lastname
```

List your home directory

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

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

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Verify the installation

```
$ which inspec
```

```
/opt/chefdk/bin/inspec
```

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Verify the installation

```
$ inspec version
```

```
1.11.0

Your version of InSpec is out of date!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

INSPEC

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Verify the installation

```
$ which chef
```

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

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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

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