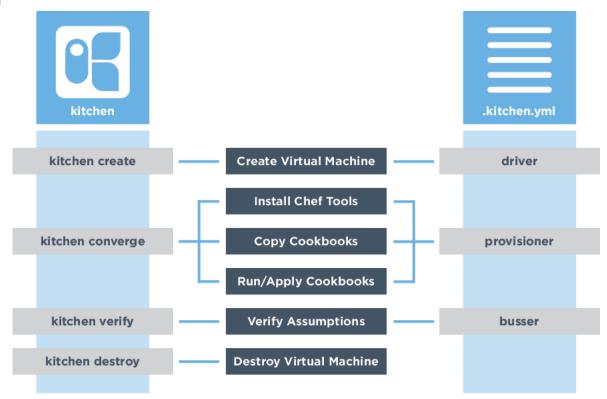
Ruby Service

```
not_if { File.exist?('/srv/specter/Gemfile.lock') }
                                                                                                                                                                                                                                      56: template '/etc/systemd/system/specter.service' do
                       command '/usr/local/bin/bundle install'
                                                                                                                                                                                                                                                                                        variables({ service_name: 'specter',
                                                                                                                                                                                                                                                                                                                                                                                 61: template '/srv/specter/start.sh' do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       66: template '/srv/specter/stop.sh' do
                                                                                                                       51: execute 'database migration' do
                                                                                                                                                                                                                                                                                                            working_directory: '/srv/specter' })
'/cookbooks/ruby_service/recipes/default.rb
                                                                                                                                                                       command 'rake migrate'
                                                                                                                                                                                                                                                                                                                                                                                                        source 'start.sh.erb'
                                                                                                                                                                                                                                                             source 'service.erb'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              source 'stop.sh.erb'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         71: service 'specter' do
                                                                                                                                             cwd '/srv/specter'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 action :start
                                                                                                                                                                                                                                                                                                                                                                                                                                   mode '0774'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mode '0774'
                                                                                                                                                                                           54: end
                                                                                                                                                                                                                                                                                                                                        59: end
                                                                         49: end
                                                                                                                                                                                                                                                                                                                                                                                                                                                          64: end
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              69: end
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                                                                                                                                                                                                                                                                                                                                                                                                            62:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .89
                                                                                                                                                                                                                                                                                                               notifies :run, 'execute[extract_site]', :immediately
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                openssl-devel make bzip2 autoconf automake libtool bison curl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'https://cache.ruby-lang.org/pub/ruby/2.5/ruby-2.5.1.tar.gz'
                                                                                                                       4: # Copyright:: 2018, The Authors, All Rights Reserved.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22: package %w[git-core zlib zlib-devel gcc-c++ patch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             not if { File.exist?('/usr/local/bin/bundle') }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      not_if { File.exist?('/usr/local/bin/ruby') }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      command './configure && make && make install'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    command '/usr/local/bin/gem install bundler'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     34: execute 'configure, make and install ruby' do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           readline readline-devel libyaml-devel libffi-devel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          not_if { File.exist?('/tmp/ruby-2.5.1')
                                                                                                                                                                                                                                                                                                                                                                                                                                                       not_if { File.exist?('/srv/specter') }
action :nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24: remote_file '/tmp/ruby-2.5.1.tar.gz' do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        command 'tar -xvf ruby-2.5.1.tar.gz'
                                                                                                                                                                                                                                                               10: cookbook_file '/srv/specter.zip' do
11: source 'specter.zip'
                                                                                                                                                                                                                                                                                                                                                                                                                                command 'unzip specter.zip'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 40: execute 'install bundler' do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   45: execute 'bundle install' do
                                              1: # Cookbook:: ruby_service
2: # Recipe:: default
                                                                                                                                                                                                                                                                                                                                                                                   execute 'extract_site' do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28: execute 'extract ruby' do
'/cookbooks/ruby_service/recipes/default.rb
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                                                                                                                                                                  6: directory '/srv'
                                                                                                                                                                                                                  8: package 'unzip'
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36:
37:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         39:
```



Test Kitchen Commands



Within the directory of the cookbook:

> kitchen list

Display the instances (platforms * suites)

> kitchen converge [instance|regex]

Create the instance, install Chef, and apply the recipe.

> kitchen verify [instance|regex]

Verify the instance with the tests defined for the suite.

> kitchen destroy [instance|regex]

Destroy the instance.

> kitchen login [instance|regex]

Login to the instance.



Cookbook Attributes

https://docs.chef.io/attributes.html

Create the attributes directory and attribute file

```
> chef generate attribute FILENAME
```

The attribute is defined at particular precedence level in the attributes file and then it is retrieved from the node object.

```
~/cookbooks/ruby service/attributes/default.rb
```

```
default['ruby_service']['site_path'] = \/srv/specter'
```

The attribute is defined on the node object and may be retrieved in the recipe.

~/cookbooks/ruby_service/recipes/default.rb

```
site_path = node['ruby_service']['site_path']

execute 'extract_site' do
   cwd '/srv'
   command 'unzip specter.zip'
   not_if { File.exist?(site_path) }
   action :nothing
end
```



Cookbook Recipe and include_recipe

Create the recipe with test files

https://docs.chef.io/dsl_recipe.html#include-recipes

```
> chef generate recipe FILENAME
```

A recipe can include one (or more) recipes located in cookbooks by using the include_recipe method.

~/cookbooks/ruby service/recipes/default.rb

```
include_recipe 'ruby_service::install'
include_recipe 'ruby_service::configuration'
include_recipe 'ruby_service::service'
```



₩ Web Service Implementation

Create new scans **POST** http://localhost:8000/scans Read all scans or a scan GET http://localhost:8000/scans Update any existing scans PUT http://localhost:8000/scan/{id} Delete any existing scans DELETE http://localhost:8000/scan/{id}



https://www.inspec.io/docs/reference/resources/

file resource

```
describe file('/usr/local/bin/ruby') do
                                                     describe file('/srv/specter') do
 it { should exist }
                                                       it { should be_directory }
 it { should be_executable }
                                                       its('owner') { should eq 'root' }
                                                     end
```

command resource

```
describe command('/usr/local/bin/ruby') do
                                                    describe command('curl http://localhost:8000') do
 it { should exist }
                                                      its('stdout') { should match('welcome friend') }
end
describe command('/usr/local/bin/ruby -v') do
 its('stdout') { should match('2.5.1') }
```

host resource

```
describe host('localhost', port: 8000, protocol: 'tcp') do
 it { should be_reachable }
  it { should be_resolvable }
```

port resource

```
describe port(8000) do
 it { should be_listening }
  its('processes') { should include 'ruby'}
```

http resource

```
describe http('http://localhost:8000', enable_remote_worker: true) do
 its('status') { should eq 200 }
```

service resource

```
describe service('ruby_service') do
 it { should be_installed }
  it { should be_running }
```

json resource

```
describe host('localhost', port: 8000, protocol: 'tcp') do
 it { should be_reachable }
  it { should be_resolvable }
end
```

Node Service

```
not_if { File.exist?('/srv/specter/Gemfile.lock') }
                                                                                                                                                                                                                                        56: template '/etc/systemd/system/specter.service' do
                          command '/usr/local/bin/bundle install'
                                                                                                                                                                                                                                                                                    variables({ service_name: 'specter', 7
                                                                                                                                                                                                                                                                                                                                                                             61: template '/srv/specter/start.sh' do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                template '/srv/specter/stop.sh' do
                                                                                                                     51: execute 'database migration' do
                                                                                                                                                                                                                                                                                                       working_directory: '/srv/specter' })
/cookbooks/node_service/recipes/default.rb
                                                                                                                                                                     command 'rake migrate'
                                                                                                                                                                                                                                                                                                                                                                                                    source 'start.sh.erb'
                                                                                                                                                                                                                                                           source 'service.erb'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source 'stop.sh.erb'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  71: service 'specter' do 72: action :start 73: end
                                                                                                                                          cwd '/srv/specter'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mode '0774'
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                                                                                                                     4: # Copyright:: 2018, The Authors, All Rights Reserved.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22: package %w[git-core zlib zlib-devel gcc-c++ patch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             not_if { File.exist?('/usr/local/bin/bundle') }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           not_if { File.exist?('/usr/local/bin/ruby') }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           command './configure && make && make install'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        command '/usr/local/bin/gem install bundler'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          34: execute 'configure, make and install ruby' do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            command 'tar -xvf ruby-2.5.1.tar.gz'
not_if { File.exist?('/tmp/ruby-2.5.1') }
                                                                                                                                                                                                                                                                                                                                                                                                                                                  not_if { File.exist?('/srv/specter') }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24: remote_file '/tmp/ruby-2.5.1.tar.gz' do
                                                                                                                                                                                                                                                               10: cookbook_file '/srv/specter.zip' do
11: source 'specter.zip'
                                                                                                                                                                                                                                                                                                                                                                                                                               command 'unzip specter.zip'
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                                               1: # Cookbook:: ruby_service
                                                                                                                                                                                                                                                                                                                                                                                 execute 'extract_site' do
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                                                                        2: # Recipe:: default
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            action : nothing
                                                                                                                                                                   6: directory '/srv'
                                                                                                                                                                                                               8: package 'unzip'
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                                                                                                                                                                                                                                                                                                                                       end
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    33:
```



https://www.inspec.io/docs/reference/cli/

InSpec controls can be defined in their own artifact. This enables them to be reused across cookbook test suites and used to scan your target infrastructure.

> inspec init profile PROFILENAME

Inspec can execute scans against remote targets with profiles.

> inspec exec PROFILENAME -t PROTOCOL://USER:PASSWORD@HOST:PORT

Inspec profiles can be archived for easy transport.

> inspec arhive PROFILENAME



https://www.inspec.io/docs/reference/dsl_inspec/

control 'sshd-8' do
 impact 0.6
 title 'Server: Configure the service port'
 desc '
 Always specify which port the SSH server should listen to.
 Prevent unexpected settings.
 '
 tag 'ssh','sshd','openssh-server'
 tag cce: 'CCE-27072-8'
 ref 'NSA-RH6-STIG - Section 3.5.2.1', url:
 'https://www.nsa.gov/ia/_files/os/redhat/rhel5-guide-i731.pdf'
 describe sshd_config do
 its('Port') { should eq('22') }
 end
end

impact, title, and desc define metadata that fully describes the importance of the control, its purpose, with a succinct and complete description impact is an float that measures the importance of the compliance results and must be a value between 0.0 and 1.0. The value ranges are:

0.0 to <0.4 these are controls with minor criticality

0.4 to <0.7 these are controls with major criticality

0.7 to 1.0 these are critical controls

tag is optional meta-information with with key or key-value pairs

ref is a reference to an external document
describe block, but may contain as many as required

sshd_config is an InSpec resource. For the full list of InSpec resources, see InSpec resource
documentation

its('Port') is the matcher; { should eq('22') } is the test. A describe block must contain at least one at least one matcher, but may contain as many as required

```
58: template '/etc/systemd/system/wraith.service' do
59: source 'service.erb'
                                                                                 49: cwd '/srv/wraith'
50: command '/root/.cargo/bin/diesel setup &&
/root/.cargo/bin/diesel migration run'
                                                                                                                                                                                                                                                                        command '/root/.cargo/bin/cargo build'
                                                                                                                                                                                                                                                                                                                                                                                                                                                              62: template '/srv/wraith/start.sh' do
63: source 'start.sh.erb'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              48: execute 'database setup' do
/cookbooks/rust_service/recipes/default.rb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                72: service 'wraith' do 73: action :start 74: end
                                                                                                                                                                                                                                          cwd '/srv/wraith'
                                                                                                                                                                                                               53: execute 'build' do 54: cwd '/srv/wraith 55: command '/root/.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mode '0777'
                                                                                                                                                                                                                                                                                               56: end
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 44: command '/root/.cargo/bin/cargo install diesel_cli / --version 1.2.0 --no-default-features --features "sqlite", 45: not_if { File.exist?('/root/.cargo/bin/diesel') }
                                                                                                                                                                                                                                                                                                                                                       notifies :run, 'execute[extract_site]', :immediately
                                                                                                                                      4: # Copyright:: 2018, The Authors, All Rights Reserved.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23: command 'curl https://sh.rustup.rs -sSf | sh -s --default-toolchain nightly -y'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     command '/root/.cargo/bin/cargo install --force'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27: # execute 'install working rust nightly build' do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  32: execute 'yum groupinstall "Development Tools" -y'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        34: # package [ 'sqlite-devel' , 'mariadb-devel', 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cwd '/srv/wraith'
command '/root/.cargo/bin/rustup install
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22: execute 'install rustup default nightly' do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 command 'unzip wraith.zip'
not_if { File.exist?('/srv/wraith') }
action :nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24: not_if { File.exist?('~/.rustup') }
                                                                                                                                                                                                                                                                                                 10: cookbook_file '/srv/wraith.zip' do
11: source 'wraith.zip'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             37: execute 'install dependencies' do
38: cwd '/srv/wraith'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   42: execute 'install diesel-cli' do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          35: package [ 'sqlite-devel' ]
                                                      1: # Cookbook:: rust_service
2: # Recipe:: default
                                                                                                                                                                                                                                                                                                                                                                                                                                   15: execute 'extract_site' do
"/cookbooks/rust_service/recipes/default.rb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cwd '/srv/wraith'
                                                                                                                                                                                          6: directory '/srv'
                                                                                                                                                                                                                                            8: package 'unzip'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nightly-2018-04-19'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                cwd '/srv'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'postgresql-devel'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30: # end
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         46: end
                                                                                                                                                                                                                                                                                                                            11:
12:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              16:
17:
18:
19:
```



https://github.com/chef/mixlib-shellout

```
Chef.event_handler do
  on :run_completed do

scan_path = "#{Chef::Config[:cookbook_path]}/audit/inspec-*.json"
headers = '"Content-Type: application/json"'
url = 'http://localhost:8000/scans'

upload = Mixlib::ShellOut.new "curl -d @$(ls #{scan_path}) -H #{headers} #{url}"
upload.run_command
end
end
```



Ruby / Chef

```
Chef.event_handler do
    on :run_completed do

scan_path = "#{Chef::Config[:cookbook_path]}/audit/inspec-*.json"
    connection = Chef::HTTP.new('http://localhost:8000')
    headers = { 'Content-Type' => 'application/json' }
    Dir[scan_path].each do |scan_file|
        data = File.read(scan_file)
        connection.post("/scans", data.to_s, headers)
    end
end
```



Test Kitchen Configuration with a new Suite

```
suites:
    # existing default suite
    - name: audit
    run_list:
        - recipe[node_service::default]
        - recipe[azrael::default]
    verifier:
        inspec_tests:
        - test/integration/audit
        attributes:
```