# Chef Attributes

## About me!





RajeshKumarIN

**RajeshKumarIN** 

RajeshKumarIN

DevOps@RajeshKumar.XYZ





#### Goal for attributes

- Understand Attributes
- Write a recipe to create Unix User accounts
- Use attributes in a recipe
- Use attributes in a template

## Example

• <a href="https://github.com/scmgalaxy/chef-repo">https://github.com/scmgalaxy/chef-repo</a>

#### Where can we defined the attributes

Attributes are provided to the chef-client from the following locations:

- Nodes (collected by Ohai at the start of each chef-client run)
- Attribute files (in cookbooks)
- Recipes (in cookbooks)
- Environments
- Roles

#### **Attribute Files**

```
default['apache']['dir'] = '/etc/apache2'
default['apache']['listen_ports'] = [ '80','443' ]

node.default['apache']['dir'] = '/etc/apache2'
node.default['apache']['listen_ports'] = [ '80','443' ]
```

Where apache is your cookbook name.

## Example

**Default attribute in /attributes/default.rb** default['apache']['dir'] = '/etc/apache2'

**Default attribute in node object in recipe** node.default['apache']['dir'] = '/etc/apache2'

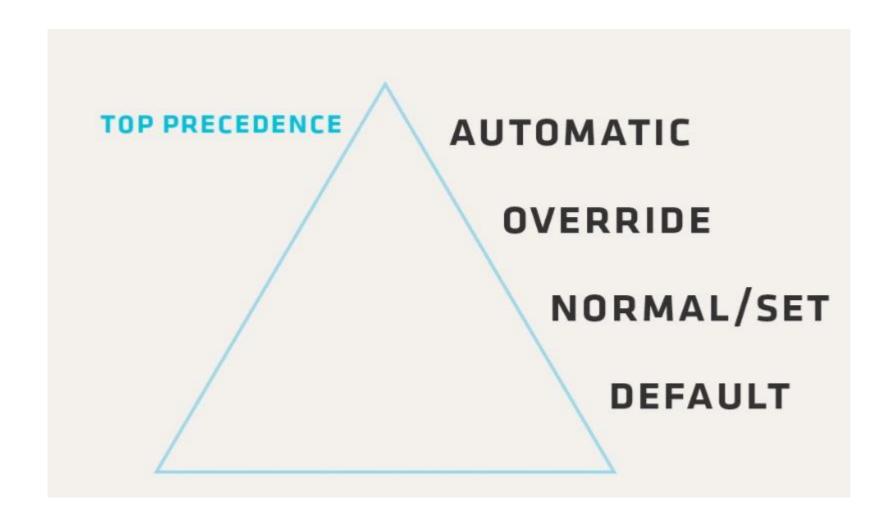
Default attribute in /environments/environment\_name.rb
default\_attributes({ 'apache' => {'dir' => '/etc/apache2'}})

Default attribute in /roles/role\_name.rb
default\_attributes({ 'apache' => {'dir' => '/etc/apache2'}})

#### DONT

• Don't name an attribute something like [:apache2][:user], for example, unless you want to override that attribute's value.

#### Chef Attributes Precedence



## Chef Attributes Precedence

	Attribute Files	Node / Recipe	Environment	Role
default	1	2	3	4
force_default	5	6		
normal	7	8		
override	9	10	12	11
force_override	13	14		
automatic		1	5	

# Automatic (Ohai)

node['platform']	node['hostname']
node['platform_version']	node['domain']
node['ipaddress']	node['recipes']
node['macaddress']	node['roles']
node['fqdn']	node['ohai_time']

#### Conditions with attributes

## Using attribute?() in an attributes file:

```
if attribute?('ec2')
# ... set stuff related to EC2
end
```

#### Using attribute?() in a recipe:

```
if node.attribute?('ec2')
  # ... do stuff on EC2 nodes
end
```

# In Depth - Attributes are always applied by the chef-client in the following order:

A default attribute located in a cookbook attribute file

A default attribute located in a recipe

A default attribute located in an environment

A default attribute located in role

A force\_default attribute located in a cookbook attribute file

A force\_default attribute located in a recipe

A normal attribute located in a cookbook attribute file

A normal attribute located in a recipe

An override attribute located in a cookbook attribute file

An override attribute located in a recipe

An override attribute located in a role

An override attribute located in an environment

A force override attribute located in a cookbook attribute file

A force\_override attribute located in a recipe

An automatic attribute identified by Ohai at the start of the chef-client run

## Sample Cookbooks for Attributes

https://github.com/scmgalaxy/chef-repo