



CHEF

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CoockBooks

- Recipes are stored in Cookbooks
- Cookbooks contain recipes, templates, files, custom resources,..

To Create a Cookbook:

knife cookbook create <cb Name>

Ex:

knife cookbook create apache

Ex-1:

```
chefdk# knife cookbook create myapache
chefdk# vi chef-
    repo/cookbooks/myvim/recipes/default.rb
execute "apt-get update" do
  command "apt-get update"
end
apt_package "apache2" do
  action :install
end
service "apache2" do
  action :start
end
```

```
chefdk# knife cookbook upload myapache  
chefdk# knife node run_list add node1  
  "recipe[myapache]"
```

```
chefnode# chef-client
```

Run the chef-client command ffrom DK:

```
chefdk# knife ssh 'name:node1'  
  'sudo chef-client' -i key
```

```
chefdk# knife node show node1
```

```
chefdk# knife node show node1 -l
```

To List in Json format:

```
chefdk# knife node show node1 -Fj
```

To find the hostname of Node:

```
chefdk# knife node show node1 -a fqdn
```

Ex:-2

```
chefdk# knife cookbook create myhttpd
chefdk# vi chef-repo/cookbooks/myhttpd/
          recipes/default.rb
package "httpd" do
  action :install
end
service "httpd" do
  action [:enable, :start]
end
cookbook_file "/var/www/html/index.html" do
  source "index.html"
  mode "0644"
end
```

```
chefdk# vi /chef-
repo/cookbooks/myhttpd/files/default/index.html
<html>
<body>
<h1> Welcome to chef ! </h1>
</body>
</html>
```

```
chefdk# knife cookbook upload myhttpd
chefdk# knife node run_list add node2
  "recipe[myhttpd]"
chefnode# chef-client
chefnode#cd
  /var/chef/cache/cookbooks/myhttpd/recipes/
```

Ex:-3:

```
chefdk# knife cookbook create mytom
chefdk# vi chef-repo/cookbooks/mytom/files
          download "addressbook.war"
chefdk# vi chef-repo/cookbooks/mytom/
          recipes/default.rb
execute "update" do
  command "yum -y update"
end
```

```
execute "java" do
  command "yum install -y java"
end
yum_package "tomcat" do
  action :install
end
cookbook_file "/var/lib/tomcat/webapps/addressbook.war" do
  source "addressbook.war"
end
service "tomcat" do
  action :restart
end
```

```
chefdk# knife cookbook upload mytom
```

```
chefdk# knife node run_list add node2
```

```
"recipe[mytom]"
```

```
chefdk# knife node run_list remove node2
```

```
"recipe[myhttpd]"
```

```
chefdk# knife node show node2
```

```
chef-node2# chef-client
```

Browser → <http://<node2 IP>:8080/addressbook>

Ex-4:

```
chefdk # knife cookbook create mysql  
chefdk# vi chef-repo/cookbooks/mysql/recipes/default.rb
```

```
if node['platform']=='ubuntu' | | node['platform']=='debian'  
  execute "update" do  
    command "apt-get update"  
  end  
  apt_package "mysql-server" do  
    action :install  
  end  
  service "mysql" do  
    action :start  
  end  
end
```

```
if node['platform']=='centos' | | node['platform']=='redhat'  
execute "update" do  
  command "yum -y update"  
end  
yum_package "mariadb-server" do  
  action :install  
end  
service "mariadb" do  
  action :start  
end  
end
```

chefdk# knife cookbook upload mysql

Ex-5:

```
chefdk # knife cookbook create loops
```

```
chefdk# vi chef-
```

```
repo/cookbooks/loops/recipes/default.rb
```

```
[‘vim’, ‘git-core’, ‘curl’] .each do |package|
```

```
    apt_package package do
```

```
        action :install
```

```
    end
```

```
End
```

```
chefdk # knife cookbook upload loops
```