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| --- | --- | --- |
| **Run/generate recipe/cookbook and test it** | | |
| **Run recipes** | | chef-client -z --> *to run recipe (always comes with sudo)*  eg. sudo chef-client -z cookbooks/cookbook1/recipes/recipe.rb  chef-client -z -r --> *to run default recipe from a cookbook*  eg. sudo chef-client -z -r "recipe[cookbooks/cookbook1]" |
| **generate cookbook**  **generate recipe**  **generate template** | | chef generate cookbooks/cookbook1  chef generate recipe cookbooks/cookbook1 recipe\_name  chef generate template cookbooks/cookbook1 recipe\_name |
| **kitchen**  *a* ***.kitchen.yml*** *file in every cookbook* | | **Test a cookbook:**  kitchen list --> *Look at the test matrix*  kitchen create  kitchen converge  kitchen verify  kitchen test --> *run kitchen tests* |
| ***ChefDK -> Chef Server -> Nodes*** | | |
| **berks**  *allows upload cookbooks and all dependencies to Chef server* | | berks install  berks upload |
| **knife**  *let us send/request information to/from the Chef server* | | knife client list --> *shows all clients*  knife node list --> *shows all nodes*  knife cookbook list --> *shows all cookbooks*  knife role list --> *shows all roles*  knife environment list --> *shows all environments*  knife search node "\*:\*" --> *finds all nodes* |
|  | **knife bootstrap:**  *connect nodes to the server* | knife bootstrap IP -x user -P password --sudo -N NodeName  eg. knife bootstrap 165.231.0.21 -x chef -P chef --sudo -N node1 |
| **knife node:**  *add recipe to the node* | knife node run\_list add NodeName "recipe[CookbookName]"  eg. knife node run\_list add node1 "recipe[apache]" |
| **knife ssh:**  *setup commands from server to nodes* | knife ssh "\*:\*" -x user -P password "sudo chef-client"  eg. knife ssh "\*:\*" -x chef -P chef "sudo chef-client" |
| **knife role:**  *Upload role to chef server -->*  *Set role to the node -->*  *Converge only web nodes -->* | knife role from file role.rb  knife node run\_list set NodeName "role[RoleName]"  eg. knife node run\_list add node1 "role[web]"  knife ssh "role:web" -x user -P password "sudo chef-client" |
| **knife environment:**  *Upload environment to chef server*  *Set environment to the node* | knife environment from file environment.rb  knife node run\_list set NodeName environment  eg. knife node run\_list add node1 production |
| **Ohai** #{= ... }  *get system parameters or calculations in recipes* | | "text" --> for comment  "#{= 5+5}" --> for value |
| **Angry squid**<%= ... %>  *get system parameters or calculations in templates* | | text --> for comments  <%= 5+5 %> --> for value |