

# Platform creation exercise

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This is a part of larger chef course and requires workstation, server, node

1. *Create a dir called "myplatform"*
2. *cd to "myplatform" and create a folder called ".chef"*
3. *copy "admin.pem" and "knife.rb" files into ".chef" folder*
4. *knife ssl fetch*
5. *knife ssl check*
6. *Create cookbook "apache2-install"*

Hint : cookbook should reside within a folder called cookbooks hence create a dir called cookbooks and from within cookbooks directory use "chef" tool to create a cookbook named "apache2-install"

7. *Create apache2-conf*

Hint: use "chef" tool to create cookbook

8. *Create tomcat7-install*

Hint: use "chef" tool to create cookbook

9. *Create tomcat7-conf*

Hint: use "chef" tool to create cookbook

10. *Install apache2 , enable and start*

Hint : 1. the name of the resource is *package* and action is *:install*  
2. use *service* resource. Multiple actions can be mentioned as *[:enable , :start]*

11. *Install tomcat7 , enable and start*

Hint : 1. the name of the resource is *package* and action is *:install*  
2. use *service* resource. Multiple actions can be mentioned as *[:enable , :start]*

12. *Copy ports.conf and 000-default to files/default of apache2-conf*

Hint: ports.conf is present in /etc/apache2 and 000-default is available in /etc/apache2/sites-enabled

### *13. Change ports and log level*

Hint: In ports.conf change Listen 80 to Listen 8083

In 000-default change the first line and make it 8083

### *14. Write a recipe to replace these files and restart apache2*

As the files ports.conf and 000-default are in files directory use cookbook\_file resource to write them to the correct place ie /etc/apache2 and /etc/apache2/sites-enabled

### *15. Copy server.xml to files/default of tomcat7-conf*

Hint: server.xml is available in /etc/tomcat7

### *16. Write a recipe to replace these files on installation and restart tomcat7*

Hint: As file server.xml is in files directory of cookbook use cookbook\_file resource to write them to the correct place ie /etc/tomcat7

### *17. Upload the cookbooks to server*

We will do this in the class session

### *18. Add attributes*

Hint : A lot of values can be made as attributes location of conf files, name of service etc

### *19. Create templates*

Hint : create a template for ports.conf , 000-default , server.xml files

### *20. Change the version in metadata.rb*

### *21. check difference between what is there on server and what is available here and then upload after making sure all you need is updated.*

### *22. Upload to server*