CHEF:

1) chef architecture:

Basically the architecture how we are designed is so chef server we are maintaining the separate machine and chef development we have complete development we are doing inside the development kit only workstation there what and all recipes i need i written inside the cookbook after that i should upload that into the chef server after once i uploaded that into the chef server then i will get the deployment list from the development team so according to that i will bootstrap that into the destination server basically this architecture how it will work is in the development kit we are just writing the cookbook after that we are uploading that cookbook inside that cookbook we will mention the steps what exactly its needs to be perform and then once we uploaded that directly we can runlist that cookbook why because whatever content you written inside the cookbook it will give the information like whether the syntax issue , compilation issues and all we can check in the runlist once runlist is completed there is no any issues then it will upload that into the chef server after uploading directly we can bootstrap that package into the respective servers so this architecture we are using

**RECIPE:**

Recipe is like a performing the actions, it is like a piece of code

**Cookbook**:

Cookbook is nothing but performing the multiple actions like suppose if you want to install some apache automatically it needs to be download and install and enable this three actions if you want to perform inside the recipe you have to mention **default.rb** file you have to mention the httpd package and action enable starts and end the point after that we can check the runlist so this way what happen exactly is it will check the recipe according to the actions what you mention inside the recipe then it will deploy the package into your destination server

**2) What are the commands your using in chef:**

BASIC COMMANDS WE ARE USING in chef,

**knife ssl check** to verify the ssl certificate once we copied,

follow the document (chef installation)

**WHAT IS ORGANIZATION, ROLES AND ENVIRONMENT :**

**2.1) WHAT IS ORGANIZATION IN CHEF ?**

**ORGANIZATION:**

Organization basically we are creating inside the organization only whatever pem file we have regarding to the my account and also what you created the starterkit and in starterkit chef-repo what you downloaded everything information it is inside the organization only

**2.2) WHAT IS ROLES IN CHEF?**

**ROLES:**

Sometimes we are performing the deployment the specific server to multiple servers to pick the particular role and deploy in that scenario we will pass the roles in the chef

**2.3) WHAT IS ENVIRONMENT IN CHEF?**

**ENVIRONMENT:**

Chef environment we are creating for the settuping the complete arguments add the environment and objects also we can add inside the environments and completely we can edit inside the environment file

**3) WHAT IS THE STRUCTURE OF COOKBOOK:**

cookbook structure is recipes, meta.rb and inside the recipe we have a default.rb file and also con (not sure) file we have

**4) HOW YOU’RE MAINTAINING THE DEPENDENCIES HERE:**

We will maintain the dependencies inside the resources we are configuring the dependencies inside that cookbook and when we run the cookbook according to the dependency files inside the cookbook only it will call one by one dependency

**5) WHAT PURPOSE YOU’RE USING CHEF?**

For deployment process we are using cookbook it is an configuration management tool

**6) WHAT IS THE COMMAND TO CREATE A COOKBOOK?**

**chef generate cookbook cookbookname,** suppose cookbook name is Leadapp i can give the Leadapp.

**7) Which file your using for credential purpose ?**

credential purpose basically we are using pem file in the CHEF server only so when i want to create the user what i will do is pem file i will create

**8) WHAT ARE THE TOOLS YOUR USING IN CHEF ?**

only knife we are using

**9)in the shell scripting what is the command to copy a file ?**

**scp** we are using ('.' scp means secure copy )

**10) what is ziping command in shell script ? how to zip a file in shell script ?**

to zip the file we are using

**11) which kind of chef server your using like on framises?**

yeah On premies server

**12) if it is On premies means how many users you can configure at a time ?**

at a time we can boostrap only one server in my environment i never tried like multiple servers at a time only boostrap one server i tried

**13) what is the workstation server is it ubuntu or windows ?**

we are using like linux server only

**14) After upload the cookbook where you will go and check the process or cookbook? Where it will start actually?**

in the workstation only we will configure the cookbook once we uploading then we will check the browser whether it is uploaded successfully or not then after bootstrapping we will go to client server or application server there we will check whether deployment is happened or not

**15) Every time you’re bootstrapping am i rite?**

Yes

**16) How will you check the runlist?**

only i created cookbook in the recipe so after that i will run the runlist command so **knife runlist --filename** i should give and then that recepie name i should give when i runlist the code it will compile and check the code if anything happen in that code like syntax error and all it will display

**17) WHAT IS META.RB FILE IN COOKBOOK ?**

each and every cookbook required a small amount of meta data so that means a file name meta.rb has been located at the top of the every cookbook i mean directories and structures whatever it may be and also the concept of meta data is like a

**WHERE DO YOU MAINTAIN VERSION OF COOKBOOK?**

version of cookbook we will maintain in the development tutorial .

**18) HOW DO YOU WRITE AND HOW DO YOU EXPLAIN THAT RECIPE ?**

So usually we are using the ruby script in the recipe so first default.rb file automatically generate when you create the cookbook so you can write inside the default.rb file or else you can create the own file.rb file , but file name should be in the .rb format so you can write the ruby script inside that.

**19) IN THE NODE RUNLIST YOU DIDNOT SPECIFY ANY RECIPE NAME YOU MENTIONED ONLY COOKBOOK NAME IN THAT CASE WHAT WILL HAPPEN?**

you have to run that recipe inside the cookbook only then only it will execute so then only it will check the code i mean whatever you have written inside the default.rb file then only it will compile the code otherwise if you run somewhere it can not be check the path and all

( OR )

In that case it will throw error only because they dont know where exactly it will execute that’s why it will throw error

**20) WHAT IS CUSTOMIZED RESOURCE IN CHEF?**

Customized resource means it’s like If i want to write a specific custom path if i want to perform , i will specify in cookbook ,

**21) CAN YOU EXPLAIN ME ANYONE OF COOKBOOK YOU HAVE WORKED ?**

I created one cookbook for deploying the package from the chef developement kit to destination servers so that cookbook like how it will work is so first it will install the java and also whatever i gave in the particular recipe actions whatever like apache and also doing the deployment to tomcat server so what and all details i mention with jenkins link like wget jenkins package list i will mention in the cookbook so this kind of things i created one cookbook.

**22) WHAT IS ROLE IN CHEF?**

ROLE having different types of attributes, suppose we are specifying the deployment from one specific server to multiple servers pick the role and deploy in that scenario chef will pass the roles ,

**23) HOW CAN YOU WRITE RUBY SCRIPT?**

Actually i am not very expert in the ruby script very basic knowledge in the ruby script so my current project we have standard ruby scripts so according to the requirements we will just change the path and all we can use.

**24) WHAT IS HASH TABLE IN RUBY ? WHAT DO YOU MEAN BY HASH TABLE IN RUBY SCRIPT?**

Usually hash is nothing but like its a sometime of operator in our ruby,

so usually if i want to define a variables in the ruby i can use the hash symbol hash and flower bracket i can use.