**CONFIGURATION MANAGEMENT TOOL :**

>> Configuration Management is nothing but we can deploy on multiple servers.

>>suppose you have 10 servers now if you want to create user in 10 servers you will login into each server and you create.otherwise we will write one script and execute in 100 or 10 servers like this also we can do.

>> suppose if you have 100 servers or 1000 server now if you want to install GIT in 1000 servers how will you install ?

-----> we can login to each server and install but it takes lot of time.

>>now my requirement is i need to install git in 1000 servers within 10 minutes ?

So in this case we are using configuration management tool, by using CM tool we can install git or we can deploy packages in multiple servers.

**Now my requirement is i need to install git in 1000 servers within 10 minutes ?**

here we are using CHEF as a configuration management tool

>> CHEF is a hub between Workstation and CHEF clients

>>if i want to install git in 1000 servers then i have to write ruby script in configuration management tool.

**RUBY:**

>> it will be easy and no need to write lot of code and it will be like simple English.

**WORKSTATION:**

>>WORKSTATION is nothing but where you’re developing the source code like laptop

>>here we will develop code and upload into CHEF-server, CHEF-server is a hub between WORKSTATION AND 1000 SERVERS.

**COOKBOOK:**

COOKBOOK is nothing but number of recipes

**RECEPIE:**

---->Piece of code , whatever the task or code we will write here that we will upload into CHEF-server after that we will assign that code into client servers, Suppose if you want for 100 servers then if you add 100 servers in runlist automatically code will be added into 100 servers.

not only user and git anything we can do like user creation and deploying packages and installing applications etc.

>>client servers is nothing but target machines.

>>we we get any bugs we can identify easily in CHEF-SERVER

**CHEF WORKFLOW:**

here we have three parts like WORKSTATION , CHEF-SERVER , CLIENT SERVERS

SERVER:

SERVER is nothing but configuration data it will work as a repository between workstation and servers.

>> here we will develop the code and upload into chef server ,from chef server to for how many servers we want we will add in runlist then automatically it will be execute in automatically.