Get Link of Installation from here:
https://docs.chef.io/workstation/install_workstation/

System administrator is now replaced by Devops Engineers

Make FTP on server, Place file & then run from every PC. Its still manual.

IaC (Infrastructure as Code)

Every NOde has DB named Ohai which tells node what you have & only update new files like etcd in Kubernetes architecture.

Idompotancy: Make you free from replication / Only Fetched those files which a node dont have

Push-Based tools include ansible & saltstalk.& works on parallel universe

Pull-Based tools are Chef & Puppet.

Pull-Based Configuration Management Tool: Every node has got the mechanism to approach the server.

CHEF uses RUBY Language.

ER Language is also used.

Chef Workstation is where you write code.

Chef Server is community server cloud where you store recipies, cookbooks.

Workstation to server is connected via CLI Tool. Server to Node is also connected via Knife, but a special process called Bootstrapping.

3 ways to

Files(create, delete, update), Packages(install, update, remove), Services(start, stop)

Two important components of Node: Chef Client & Chef Ohai

Commands:

sudo su

yum update -y

mkdir cookbook

wget https://packages.chef.io/files/stable/chef-workstation/21.10.640/el/8/chef-workstation-21.10.640-1.el8.x86_64.rpm

yum install -y chef-workstation-21.10.640-1.el8.x86_64.rpm

cd cookbook

chef generate cookbook mycookbook

cd mycookbook

chef generate recipe mycookbook/recipes/recipe2   /   chef generate recipe test-recipe

cd ..

vi mycookbook/recipes/recipe2.rb

```
file '/myfile' do
content 'Hello Welcome to DevOps tool CHEF'
action :create
end
```

```
package 'tree' do
action :install
end

file '/myfile2' do
content 'This is My Second Project code'
action :create
owner 'root'
group 'root'
end
```

```
package 'httpd' do
action :install
end

file '/var/www/html/index.html' do
content 'Welcome to Technical Guftgu'
action :create
end


service 'httpd' do
action [:enable, :start]
end
```

chef exec ruby -c mycookbook/recipes/test-recipe.rb // For Syntax check

chef-client -zr "recipe[mycookbook::test-recipe]" // For execution