Cookbook to create the new user

Creating users in chef node

Who is user?

```
-user is the one who can utilize the system resources(system resources like RAM, HDD and other)

Target: Create a user in chefnode information need to create a user username: dbuser password: <encryptedpassword> groupname : <groupname>
```

shell: /bin/bash

What is password structure?

home: /home/<username>

```
-it is divided into 3 layers of the following password structure
```

MD5 is a type of algorithm that is known as a cryptographic hash algorithm. MD5 produces a hash value in a hexadecimal format. This competes with other designs where hash functions take in a certain piece of data, and change it to provide a key or value that can be used in place of the original value.

To see the encrypted password of users

[root@localhost~]# cat /etc/shadow | grep admin

How to generate a encrypted password?

Note: BATMAN (Benchmarking of Asymmetric Tools on Multiple Architectures, Non-Interactively) is a program to collect measurements of public-key systems.

<saltname>

Password salting is a form of password encryption that involves appending a password to a given username and then hashing the new string of characters. This is usually done via an MD5 hashing algorithm. Password-salting is most commonly found within Linux operating systems, and it is generally considered a more secure password encryption model than any of the models used within the various Microsoft distributions.

Create a Cookbook dbuser

```
(Workstation)
```

```
    [root@ip-10-7-1-56 cookbooks]#chef generate cookbook dbuser
    (login to chefnode and create a encrypted password for the user)
    [root@ip-10-7-1-56 cookbooks]#
    openssl passwd -1 -salt batman dbuser
    output:
    $1$batman$LojyXoiWCodvGjjfi2Td51
```

Create the cookbook

[root@ip-10-7-1-56 cookbooks]#chef generate cookbook dbuser

2. Write a recipe to create a group and user is assigned to that group

```
[root@ip-10-7-1-56 cookbooks]#vi default.rb

group 'dbGroup' do
    action :create
end
user 'dbuser' do
    password '$1$batman$LojyXoiWCodvGjjfi2Td51'
group 'dbGroup'
shell '/bin/bash'
home '/home/dbuser'
manage_home true
action :create
end
```

3. test the cookbook

[root@ip-10-7-1-56 cookbooks]# chef exec ruby -c dbuser/recipes/default.rb

4. Upload the cookbook

[root@ip-10-7-1-56 cookbooks]#knife cookbook upload dbuser

5. create a json file "chefnodes.json"

```
[root@ip-10-7-1-56 cookbooks]#vim chefnodes.json
{
 "name": "chefnodes",
 "chef_environment": "_default",
 "normal" : {
        "tags" : [
        ]
 },
 "policy_name" : null,
 "policy_group":null,
 "run_list": [
         "recipe[file_test]",
        "recipe[web_server]",
         "recipe[cron_test]",
         "recipe[attribute_test]",
         "recipe[template_test]",
         "recipe[dbuser]"
```

```
]
       }
[OR]
       Add the cookbook to the the run_list
       C:\chefclassroom\chef-starter\chef-repo\cookbooks> knife node edit KNITNode1
              {
                "name": "KNITNode1",
               "chef_environment": "_default",
               "normal": {
                "tags": [
               ]
       },
               "policy_name": null,
               "policy_group": null,
               "run_list": [
               "role[webserver]",
               "recipe[httpd]",
               "recipe[cron_test]",
              "recipe[attribute_test]",
              "recipe[dbuser]"
       }
```

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[root@ip-10-7-1-56 cookbooks]# knife node list

Add the recipe to the node

[root@ip-10-7-1-56 cookbooks]#

knife node run_list add NewNode "recipe[dbuser]"

Upload the cookbook

[root@ip-10-7-1-56 cookbooks]# knife cookbook upload dbuser

7. Open the chef node and run the command #chef-client

[root@ip-10-7-1-132 home]# chef-client

it will create a group and user with the name "dbuser"

you can login with 'chefUser1' and password '\$1\$batman\$mTuVhgzD0tOuigO9tAMqT1'

To check the password of the particular user

\$ cat /etc/shadow | grep dbuser

Note: check the cookbooks information on the following path

/var/chef/cache

Cookbook Steps:

- 1. Create a Cookbook
- 2. Write a Recipe
- 3. Test a cookbook
- 4. upload cookbook to Server
- 5. update node run_list
- 6. execute chef-client on the node