

Prerequisites for Hadoop Installation:

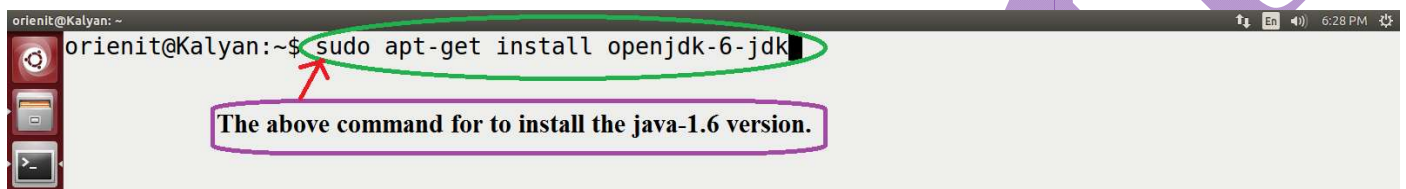
1. First we need to update the **system software repositories** using the below command (**sudo apt-get update**)



```
orienit@Kalyan: ~$ sudo apt-get update
```

This command is used to update os.

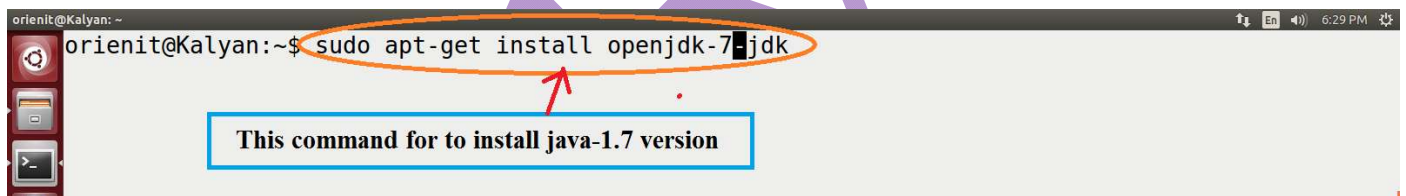
2. Install the **java-1.6** version using the below command.
(**Java-1.6** version more compatibility with **hadoop-1.x** version.)



```
orienit@Kalyan: ~$ sudo apt-get install openjdk-6-jdk
```

The above command for to install the java-1.6 version.

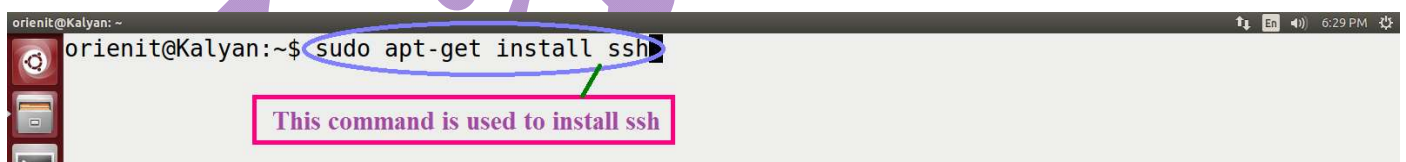
3. Install the **java-1.7** version using the below command.
(**Java-1.7** version more compatibility with **hadoop-2.x** version.)



```
orienit@Kalyan: ~$ sudo apt-get install openjdk-7-jdk
```

This command for to install java-1.7 version

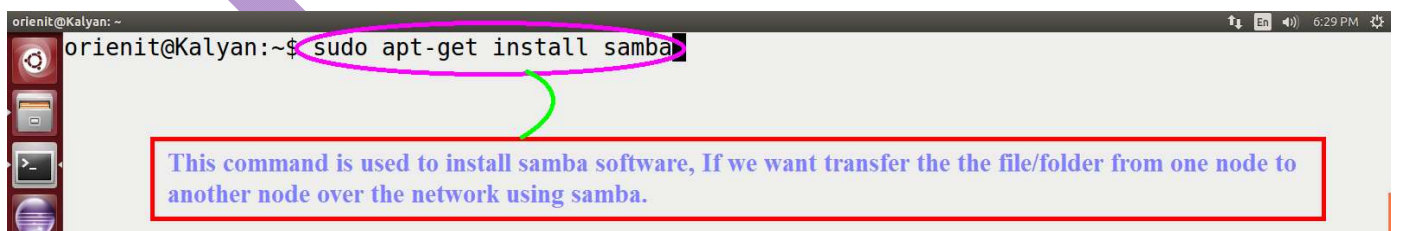
4. Install the **ssh (secure shell)** using the below command.



```
orienit@Kalyan: ~$ sudo apt-get install ssh
```

This command is used to install ssh

5. Install the **samba** software using the below command.



```
orienit@Kalyan: ~$ sudo apt-get install samba
```

This command is used to install samba software, If we want transfer the the file/folder from one node to another node over the network using samba.

6. Install the **FileZilla** using the below command.
(**FileZilla** is used to transfer the file/folder from **one machine** to **another machine** over the Network.)

```
orienit@Kalyan: ~  
orienit@Kalyan:~$ sudo apt-get install filezilla
```

It is used to install the filezilla software.

7. Install the **eclipse** using the below command.

```
orienit@Kalyan: ~  
orienit@Kalyan:~$ sudo apt-get install eclipse
```

These command for installing the eclipse

8. Install the **mysql** using the below command.

```
orienit@Kalyan: ~  
orienit@Kalyan:~$ sudo apt-get install mysql-server mysql-client
```

This command is used for to install the mysql

9. Before installing the **hadoop** we need to update the hosts

10. Open the **/etc/hosts** file using the below command.
(use nano / gedit / vi editor to open any file)

```
orienit@Kalyan: ~  
orienit@Kalyan:~$ sudo nano /etc/hosts  
[sudo] password for orienit:
```

This command is used to set the hosts

1. First execute above command
2. Provide the your system password.

11. We can update the **/etc/hosts** file as per our need.

12. nano editor to save the file ... execute below commands
(Press the "ctrl+o" for save the information)
(Press the "ctrl+x" for exist from nano editor)

```
orienit@Kalyan: ~  
GNU nano 2.2.6 File: /etc/hosts  
127.0.0.1 localhost  
127.0.0.1 Kalyan
```

Before installing the hadoop we need to set the hosts like as above inside the round cycle content, otherwise hadoop wont run.

[Read 2 lines]

^G Get Help	^O WriteOut	^R Read File	^Y Prev Page	^K Cut Text	^C Cur Pos
^X Exit	^J Justify	^W Where Is	^V Next Page	^U UnCut Text	^T To Spell

13. Open the **/etc/hostname** file using the below command

```
orientit@Kalyan: ~$ sudo nano /etc/hostname
[sudo] password for orientit: 
```

This command is used to set the hostname
1. Execute the above command
2. Provide the your system password.

14. We can update the **/etc/hostname** file as per our need.
15. nano editor to save the file ... execute below commands
(Press the "ctrl+o" for save the information)
(Press the "ctrl+x" for exist from nano editor)

```
orientit@Kalyan: ~$ nano /etc/hostname
GNU nano 2.2.6 File: /etc/hostname
Kalyan
Kalyan is hostname
```

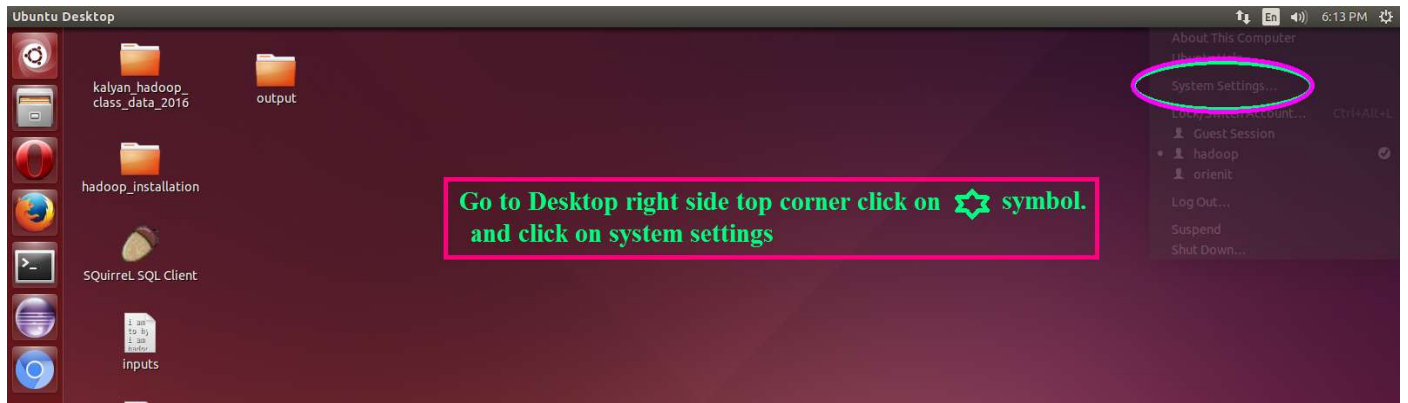
[Read 2 lines]

^G Get Help	^O WriteOut	^R Read File	^Y Prev Page	^K Cut Text	^C Cur Pos
^X Exit	^J Justify	^W Where Is	^V Next Page	^U UnCut Text	^T To Spell

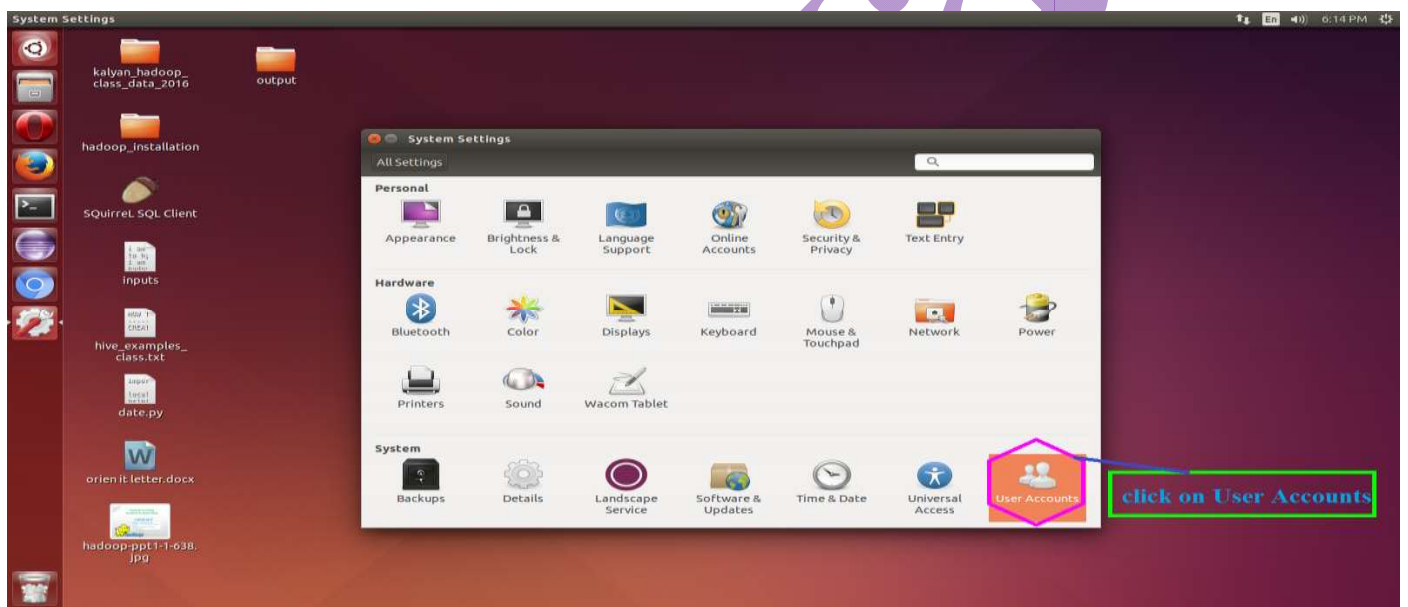
16. To refresh the **hostname** execute using the below command
(sudo service hostname restart)
17. Reopen the Terminal, to verify the changes

New User Creation in Ubuntu:

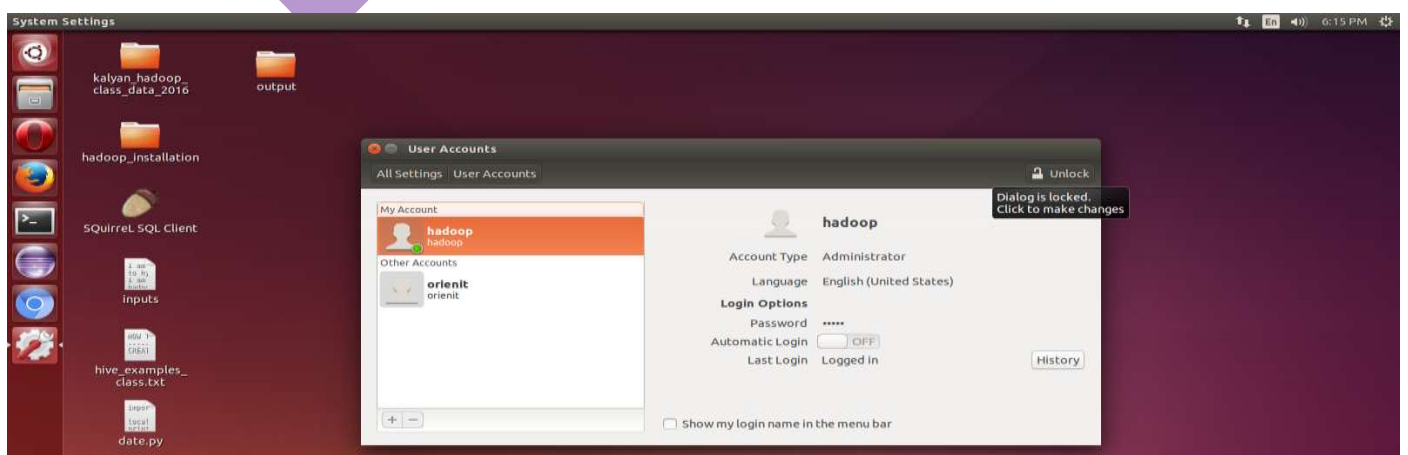
1. Go to window **right corner top** and click on **settings** symbol.
2. Click on **system settings** (follow the screen shot)



3. Click on **User Accounts** on **System Settings** screen.

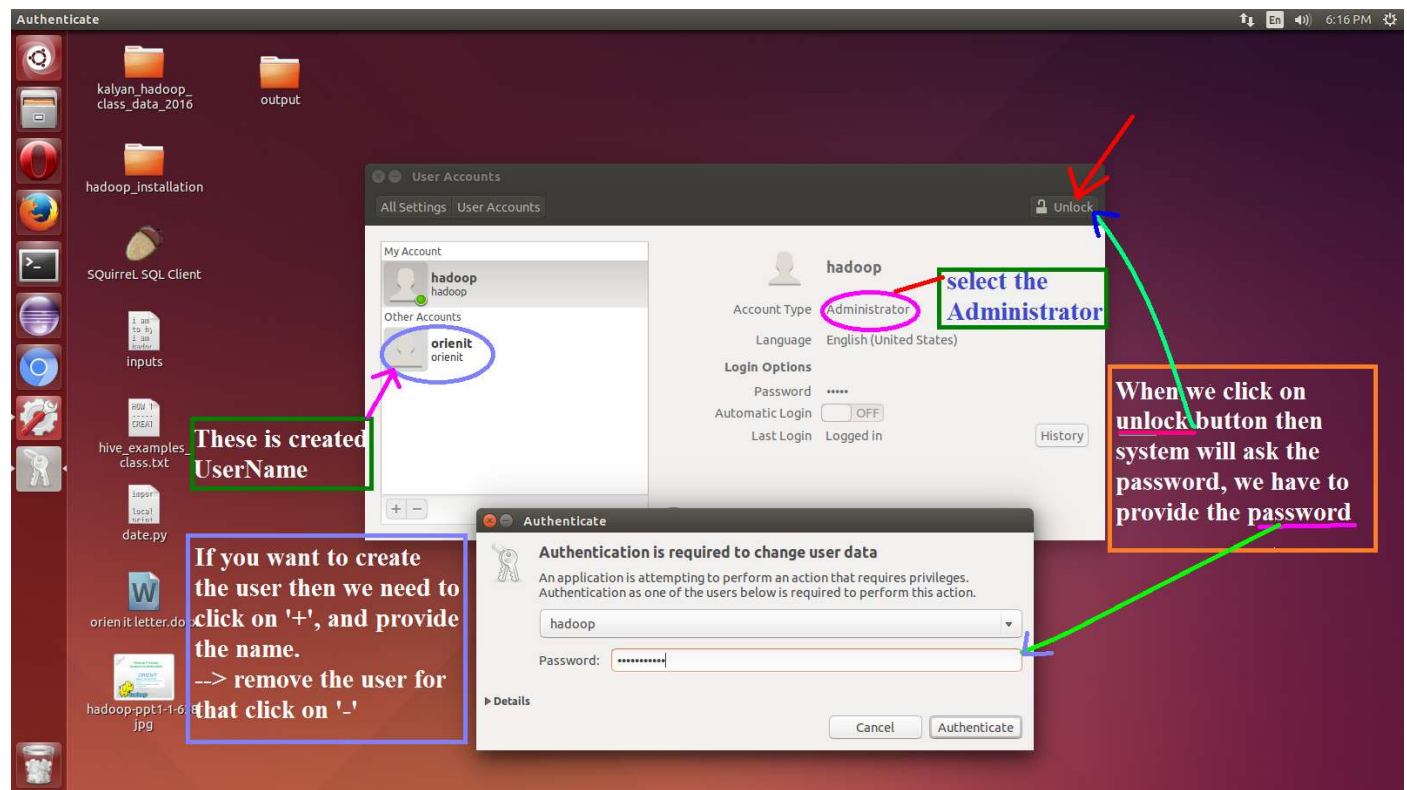


4. Click on **Unlock** button then system will ask the **current user password**, please enter the **current user password** to proceed.

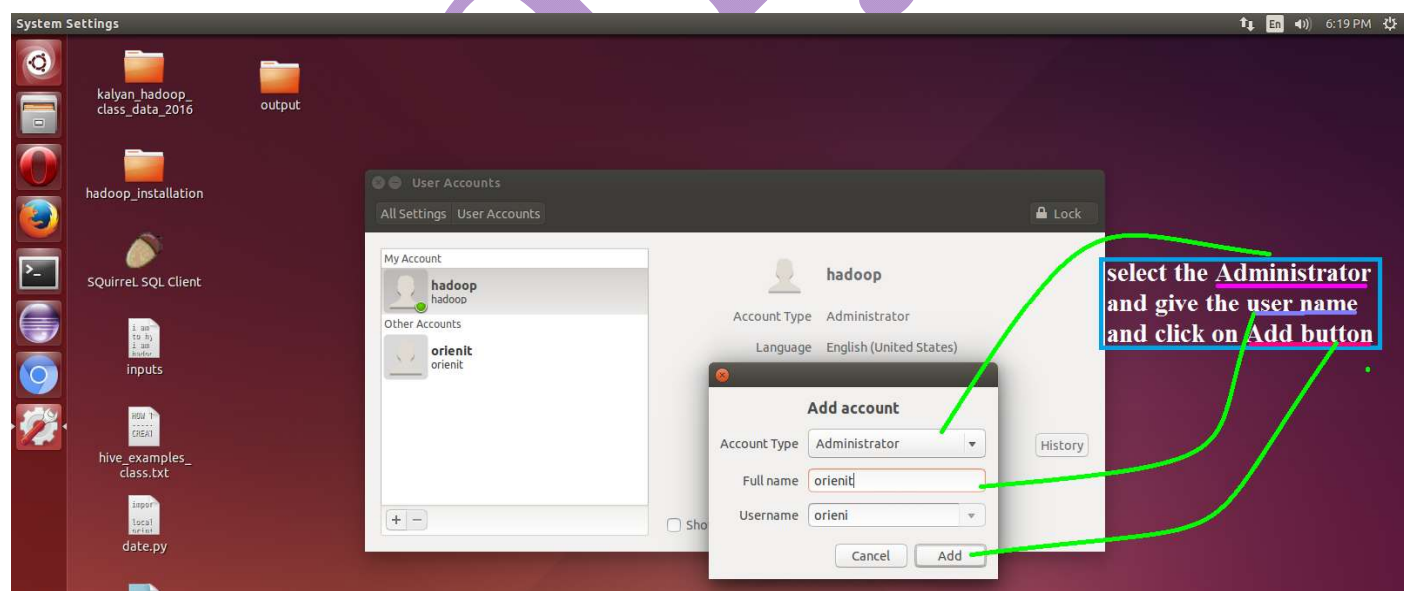


5. If you want add a new user then click on "+"

6. If you want remove the existing user then click on "-"



7. Select the **Administrator** and give the new username.



8. If you want provide set / reset the password any user then execute this command "**sudo password <username>**"

9. Provide the new password and Retype the new password.

```
orientit@Kalyan:~$ sudo passwd orientit
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
orientit@Kalyan:~$
```

If we want to provide the password for existing user then we have to execute above command.

1. First we need to enter into the root user for that we need to execute "sudo su" commnad.
2. Execute the "sudo passwd orientit".
3. Provide the password for existing user.
4. Retype the password.

How to Transfer the Data From SOURCE to DESTINATION

If you want transfer the data from **one user** to **another user** then execute the below command.

sudo cp -r <path of the source> <path of the destination>

```
root@Kalyan: /home/orientit
orientit@Kalyan:~$ sudo su
[sudo] password for orientit:
root@Kalyan:/home/orientit# cp -r /home/orientit/Desktop/input /home/hadoop/Desktop
root@Kalyan:/home/orientit#
```

If we want to transfer the data from one user to another user then we have to use command: cp -r <source of the file/folder path> <destination of the file/folder path>

If we want to give the permissions any source then execute the below command.

sudo chown -R username:username <path of the source>

```
root@Kalyan: /home/orientit
root@Kalyan:/home/orientit# chown -R orientit:orientit /home/hadoop/Desktop/input
root@Kalyan:/home/orientit#
```

if we want give the perimissions for file / folder in orientit user then we have to execute the above command and specify the file path