Create Users in Linux

Follow the document to create user and to grant access to a specific folder. Before creating user, first login to the linux machine and switch to root account by using command **sudo su**

1. Execute the command **adduser test** to add a new user, as below.
  [root@ip-X-X-X-X home]# adduser test
  [root@ip-X-X-X-X home]# ls
  test
2. Switch to new user test by executing the command **su - test**
  [root@ip-X-X-X-X home]# su - test
3. Change the directory to test by executing the command as **cd /home/test**
  [test@ip-X-X-X-X ~]$ cd /home/test/
4. Create .ssh folder inside /home/test by executing command as **mkdir .ssh** and change the execution & ownership permissions
  [test@ip-X-X-X-X ~]$ mkdir .ssh

  [test@ip-X-X-X-X ~]$ chmod 700 .ssh

  [test@ip-X-X-X-X ~]$ chown test:test .ssh
5. Change directory to .ssh by executing the command as **cd .ssh**
  [test@ip-X-X-X-X ~]$ cd .ssh/
  [test@ip-X-X-X-X .ssh]$ pwd
  /home/test/.ssh
6. Generate the SSH key pair, to login using new test user by executing the command as follows **ssh-keygen** and not required to enter the passphrase
  [test@ip-X-X-X-X .ssh]$ ssh-keygen
  Generating public/private rsa key pair.
  Enter file in which to save the key (/home/test/.ssh/id_rsa):
  Enter passphrase (empty for no passphrase):
  Enter same passphrase again:
  Your identification has been saved in /home/test/.ssh/id_rsa.
  Your public key has been saved in /home/test/.ssh/id_rsa.pub.
  The key fingerprint is:
  SHA256:udYmwa8XuOfnvKpPau8eoNi+gsl8gtt0Z2myElND2ns
  test@ip-X-X-X-X.eu-west-1.compute.internal

  The key's randomart image is:
   +---[RSA 2048]----+
   | |
   | . |

```
|  +          |
| . + ..      |
|  . o  S.    |
| o .oEo.*.      |
| +.=+.B +.*.    |
|.oB.oB .o*oo.   |
|...+..oo+XB++.  |
+----[SHA256]-----+
```
[test@ip-X-X-X-X .ssh]$ ls
id_rsa id_rsa.pub

7. Create the authorized_keys file by executing the command as **touch authorized_keys**

[test@ip-X-X-X-X .ssh]$ touch authorized_keys
[test@ip-X-X-X-X .ssh]$ ls
authorized_keys id_rsa id_rsa.pub

8. Change the execution & ownership permissions as below

[test@ip-X-X-X-X .ssh]$ chmod 600 authorized_keys
[test@ip-X-X-X-X .ssh]$ chown test:test authorized_keys
[test@ip-X-X-X-X .ssh]$ cat id_rsa.pub >> authorized_keys
[test@ip-X-X-X-X .ssh]$ ls
authorized_keys id_rsa id_rsa.pub

9. To get the content of private key execute the command as **less id_rsa**

[test@ip-X-X-X-X .ssh]$ less id_rsa

10. Copy the content and paste in notepad and save with the extension of **.pem**

-----BEGIN RSA PRIVATE KEY-----
****
-----END RSA PRIVATE KEY-------

11. Open puttygen and load this .pem file and click on 'Save private key', a passphrase not required but can be used if additional security is required.

12. Save the key with the extension of **.ppk**

13. Again login to the linux machine and switch to the root account to grant privileges follow the below steps.

14. To grant the ownership to a specific folder for test user run below command

chown test:test /path/to/myfolder

15. To grant the execution permissions on specific folder run as below

chmod u+w /path/to/myfolder

16. Now users can login and do their specific activities.