**Question 1.** For the following assignment please write all the commands required to complete the tasks as you would have to on your Linux virtual machine. You can either attach a file or just list each of the commands in the textbox below.

Create the following users, with a default password that expire upon logging in:

|  |  |  |
| --- | --- | --- |
| Username | Home Directory | User Comment |
| ramon | /employeehome/ramon | CE - Space Station |
| danille | /proposals/defiant | FT - Marketing |
| shannon | /bcps/gamma | FT - Space Station |
| latoya | /remotehome/latoya | FT - Secret Project |
| georgiana | /strategies/jl | FT - Secret Project |

**Answer:**

1)

mkdir –p /employeehome/ramon

useradd –b /employeehome/ramon ramon

usermod –c “CE-Space Station”ramon

passwd –e ramon

2)

mkdir –p /proposals/defiant

useradd –b /proposals/defiant danille

usermod –c “FT-Marketing” danille

passwd –e danille

3)

mkdir –p /bcps/gamma

useradd –b /bcps/gamma shannon

usermod –c “FT-Marketing” shannon

passwd –e shannon

4)

mkdir –p /remotehome/latoya

useradd –b /remotehome/latoya latoya

usermod –c “FT-Secret Project” latoya

passwd – e latoya

5)

mkdir –p /strategies/jl

useradd –b /strategies/jl georgiana

usermod –c “FT-Secret Project” georgiana

passwd –e georgiana

**Question 2.** Create the following directories with the following permissions to the users, create groups as necessary to complete this task, and don't forget to use the other 'other' permissions where applicable (other should never have write permission). Also remember 777 is never the answer

|  |  |
| --- | --- |
| Directory | User=Permission |
| /training/safety | ramon=rwx,danille=r-x,latoya=rwx |
| /users/all | shannon=rwx,georgiana=rwx |
| /training/marketing | georgiana=r-x,ramon=rwx,other=--- |
| /data/orian | danille=r-x,shannon=r-x,latoya=r-x |
| /reports/1/feb | ramon=r-x,georgiana=rwx,latoya=r-x,shannon=r-x,danille=rwx |
| /data/defiant | shannon=rwx,other=---,root should be user owner |

**Answer:**

1. mkdir /training/safety

groupadd grp

usermod –G grp ramon

usermod –G grp latoya

chown :grp /training/safety

chmod 570 /training/safety

chown :danille /training/safety

chmod 570 /training/safety

1. mkdir /users/all

groupadd grp

usermod –G grp shannon

usermod –G grp georgiana

chown :grp /users/all

chmod 770 /users/all

1. mkdir /training/marketing

chown :georgiana /training/marketing

chmod 500 /training/marketing

chown : ramon /training/marketing

chmod 700 /training/marketing

chown :other /training/marketing

chmod 000 /training/marketing

1. mkdir /data/orian

groupadd grp

usermod –G grp danille

usermod –G grp shannon

usermod –G grp latoya

chown :grp /data/orian

chmod 550 /data/orian

1. mkdir /reports/1/feb

groupadd grp1

usermod –G grp1 ramon

usermod –G grp1 latoya

usermod –G grp1 shannon

chown :grp1 /reports/1/feb

chmod 550 /report/1/feb

groupadd grp2

usermod –G grp2 georgiana

usermod –G grp2 danille

chown :grp2 /reports/1/feb

chmod 770 /reports/1/feb

1. mkdir /data/defiant

chown :shannon /data/defiant

chmod 700 /data/defiant

chown :other /data/defiant

chmod 000 /data/defiant

**Question 3.** Create the group skynet, and set the group owner on all home directories of the users you created to be skynet, with the group sticky bit set so all files and directories created in the directory have a group owner of skynet.

**Answer:**

groupadd skynet

1. chown :skynet /employeehome/ramon

chmod +t /employeehome/ramon

1. chown :skynet /proposals/defiant

chmod +t /proposals/defiant

1. chown :skynet /bcps/gamma

chmod +t /bcps/gamma

1. chown :skynet /remotehome/latoya

chmod +t /remotehome/latoya

1. chown :skynet /strategies/jl

chmod +t /strategies/jl