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Linux setup shared directory

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Sharing a directory among users in same group is one of the essential tasks. You need to use chmod command and add user to appropriate group. To make idea clear here is an scenario:

- /home/myproj : is shared directory
- usr1, usr2, ... usrN : would like to work and share files in /home/myproj directory
- padmin : Main project administrator user

Step # 1: Create a shared directory /home/myproj
If this directory does not exist then create it:

```
# mkdir /home/myproj
```

Step # 2: Create the group shared group
You need to create a new group. Let us assume group name is myproj

```
# groupadd myproj
```

Step # 3: Add user project administrator (padmin) and setup password:

```
# useradd -d /home/myproj/ -g myproj -m padmin
# passwd padmin
```

Step #4: Add rest of users to group myproj

```
# useradd -d /home/myproj/ -g myproj usr1
# passwd usr1
```

Add second user:

```
# useradd -d /home/myproj/ -g myproj usr2
# passwd usr2
```

... and so on...

Step #5: Setup permission on /home/myproj directory as follows:
(a) Setup group ownership to myproj group:

```
# chown -R padmin.myproj /home/myproj/
```

(b) Setup full permission for group and owner on a directory:

```
# chmod -R 775 /home/myproj/
```

(c) Setup sgid bit. So what is sgid bit? Normally whenever you creates file in a directory it belong to default group of user. When a file is created in a directory with the sgid bit set it belogns to the same group as the directory. The result is all users of myproj group can create/alter files in /home/myproj directory:

```
# chmod -R 2775 /home/myproj/
```

OR

```
# chmod -R g+s /home/myproj/
```

See also:

- [FreeBSD : How to setup shared directories](#) [1]

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[1] FreeBSD : How to setup shared directories: **http://www.cyberciti.biz/faq/nixcraft/vivek/blogger/2005/06/freebsd-how-to-setup-shared.php**