

1. Create file devops-file.txt
2. Check current owner: `ls -l devops-file.txt`
3. Change owner to tokyo (create user if needed)
4. Change owner to berlin
5. Verify the changes

```

ubuntu@ip-172-31-45-102:~$ touch devops-file.txt
ubuntu@ip-172-31-45-102:~$ ls -l devops-file.txt
-rw-rw-r-- 1 ubuntu ubuntu 0 Feb  9 18:28 devops-file.txt
ubuntu@ip-172-31-45-102:~$ 
ubuntu@ip-172-31-45-102:~$ sudo useradd tokyo
useradd: user 'tokyo' already exists
ubuntu@ip-172-31-45-102:~$ sudo useradd tokyo1
ubuntu@ip-172-31-45-102:~$ sudo useradd berlin
ubuntu@ip-172-31-45-102:~$ 
ubuntu@ip-172-31-45-102:~$ sudo chown tokyo1 devops-file.txt
ubuntu@ip-172-31-45-102:~$ ls -l
total 12
-rw-rw-r-- 1 ubuntu ubuntu 0 Feb  9 18:28 devops-file.txt
-rw-rw-r-- 1 tokyo1 ubuntu 0 Feb  9 18:28 devops-file.txt
ubuntu@ip-172-31-45-102:~$ 
ubuntu@ip-172-31-45-102:~$ sudo chown berlin devops-file.txt
ubuntu@ip-172-31-45-102:~$ 
ubuntu@ip-172-31-45-102:~$ ls -l devops-file.txt
-rw-rw-r-- 1 berlin ubuntu 0 Feb  9 18:28 devops-file.txt
ubuntu@ip-172-31-45-102:~$ 
ubuntu@ip-172-31-45-102:~$ 

```

1. Create file team-notes.txt
2. Check current group: `ls -l team-notes.txt`
3. Create group: `sudo groupadd heist-team`
4. Change file group to heist-team
5. Verify the change

```

ubuntu@ip-172-31-45-102:~$ touch team-notes.txt
ubuntu@ip-172-31-45-102:~$ 
ubuntu@ip-172-31-45-102:~$ ls -l team-notes.txt
-rw-rw-r-- 1 ubuntu ubuntu 0 Feb  9 18:33 team-notes.txt
ubuntu@ip-172-31-45-102:~$ 
ubuntu@ip-172-31-45-102:~$ sudo groupadd heist-team
ubuntu@ip-172-31-45-102:~$ sudo chgrp heist-team team-notes.txt
ubuntu@ip-172-31-45-102:~$ 
ubuntu@ip-172-31-45-102:~$ ls -l team-notes.txt
-rw-rw-r-- 1 ubuntu heist-team 0 Feb  9 18:33 team-notes.txt
ubuntu@ip-172-31-45-102:~$ 
ubuntu@ip-172-31-45-102:~$ 

```

1. Create file project-config.yaml
2. Change owner to professor AND group to heist-team (one command)
3. Create directory app-logs/
4. Change its owner to berlin and group to heist-team

```

[ubuntu@ip-172-31-45-102:~]$ touch project-config.yaml
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$ sudo useradd professor
useradd: user 'professor' already exists
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$ sudo useradd prof
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$ sudo chown prof:heist-team project-config.yaml
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$ mkdir app-logs
[ubuntu@ip-172-31-45-102:~]$ sudo chown berlin:heist-team app-logs
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$ ls -ld app logs
ls: cannot access 'app': No such file or directory
ls: cannot access 'logs': No such file or directory
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$ ls -ld app-logs
drwxrwxr-x 2 berlin heist-team 4096 Feb 10 15:45 app-logs
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$
[ubuntu@ip-172-31-45-102:~]$

```

1. Create users: tokyo, berlin, nairobi (if not already created)
2. Create groups: vault-team, tech-team
3. Create directory: bank-heist/
4. Create 3 files inside:

```

touch bank-heist/access-codes.txt
touch bank-heist/blueprints.pdf
touch bank-heist/escape-plan.txt

```

5. Set different ownership:
  - access-codes.txt → owner: tokyo, group: vault-team
  - blueprints.pdf → owner: berlin, group: tech-team
  - escape-plan.txt → owner: nairobi, group: vault-team

```
ubuntu@ip-172-31-45-102:~$ mkdir -p heist-project/vault
mkdir -p heist-project/plans
touch heist-project/vault/gold.txt
touch heist-project/plans/strategy.conf
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$ sudo groupadd planners
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$ sudo chown -R professor:planners heist-project
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$ ls -lR heist-project
heist-project:
total 8
drwxrwxr-x 2 professor planners 4096 Feb 10 15:56 plans
drwxrwxr-x 2 professor planners 4096 Feb 10 15:56 vault

heist-project/plans:
total 0
-rw-rw-r-- 1 professor planners 0 Feb 10 15:56 strategy.conf

heist-project/vault:
total 0
-rw-rw-r-- 1 professor planners 0 Feb 10 15:56 gold.txt
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
```

```
ubuntu@ip-172-31-45-102:~$ sudo useradd tokyo1
sudo useradd berlin2
[sudo useradd nairobi
useradd: user 'tokyo1' already exists
useradd: user 'nairobi' already exists
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$ sudo useradd tokyooo
sudo useradd berlirii
sudo useradd nairobiiii
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$ sudo groupadd vault-team
[sudo groupadd tech-team
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$ mkdir bank-heist
touch bank-heist/access-codes.txt
touch bank-heist/blueprints.pdf
touch bank-heist/escape-plan.txt
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$ sudo chown tokyooo:vault-team bank-heist/access-codes.txt
sudo chown berlirii:tech-team bank-heist/blueprints.pdf
[sudo chown nairobiiii:vault-team bank-heist/escape-plan.txt
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$ ls -l bank-heist
total 0
-rw-rw-r-- 1 tokyooo  vault-team 0 Feb 10 16:08 access-codes.txt
-rw-rw-r-- 1 berlirii tech-team 0 Feb 10 16:08 blueprints.pdf
-rw-rw-r-- 1 nairobiiii vault-team 0 Feb 10 16:08 escape-plan.txt
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
ubuntu@ip-172-31-45-102:~$
```