

## Task 2: User Management and Access Control

**Objective:** Set up user accounts and configure secure access controls for the new developers.

### 1. Create User accounts with home directories

Command:

```
sudo useradd -m -s /bin/bash <username>
```

```
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo useradd -m -s /bin/bash sarah
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo useradd -m -s /bin/bash mike
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ c
```

replace <username> with the name of the user

### 2. Set initial passwords (users will be forced to change on first login)

Command: `echo "sarah:TempPass123!" | sudo chpasswd`

```
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ echo "sarah:TempPass123!" | sudo chpasswd
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ echo "mike:TempPass123!" | sudo chpasswd
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$
```

### 3. Create secure workspaces

Command: `sudo mkdir -p /home/sarah/workspace`

```
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo mkdir -p /home/sarah/workspace
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo mkdir -p /home/mike/workspace
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ ls /home/
kevin mike sarah
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$
```

#### 4. Set ownership and permissions

Command: `sudo chown sarah:sarah /home/sarah/workspace \`  
`sudo chmod 700 /home/sarah/workspace`

```
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo chown sarah:sarah /home/sarah/workspace && sudo chmod 700 /home/sarah/workspace
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo chown mike:mike /home/mike/workspace && sudo chmod 700 /home/mike/workspace
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$
```

#### 5. Configure password policy

Command:

`sudo sed -i 's/^PASS_MAX_DAYS.*/PASS_MAX_DAYS 30/' /etc/login.defs`  
`sudo sed -i 's/^PASS_MIN_DAYS.*/PASS_MIN_DAYS 7/' /etc/login.defs`  
`sudo sed -i 's/^PASS_WARN_AGE.*/PASS_WARN_AGE 7/' /etc/login.defs`

```
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo sed -i 's/^PASS_MAX_DAYS.*/PASS_MAX_DAYS 30/' /etc/login.defs
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo sed -i 's/^PASS_MIN_DAYS.*/PASS_MIN_DAYS 7/' /etc/login.defs
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo sed -i 's/^PASS_WARN_AGE.*/PASS_WARN_AGE 7/' /etc/login.defs
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$
```

#### 6. Apply password policies to existing users

Command : `sudo chage --maxdays 30 --mindays 7 --warndays 7 sarah`

```
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo chage --maxdays 30 --mindays 7 --warndays 7 sarah
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo chage --maxdays 30 --mindays 7 --warndays 7 mike
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$
```

#### 7. Verify configurations

Command:

`echo "Sarah's account status:"`  
`sudo chage -l sarah`

```
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ echo "Sarah's account status:"
sudo chage -l sarah
Sarah's account status:
Last password change           : May 24, 2025
Password expires                : Jun 23, 2025
Password inactive               : never
Account expires                 : never
Minimum number of days between password change : 7
Maximum number of days between password change : 30
Number of days of warning before password expires : 7
Remote Explorer - kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$
```

```
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$ sudo chage -l mike
Last password change           : May 24, 2025
Password expires                : Jun 23, 2025
Password inactive               : never
Account expires                 : never
Minimum number of days between password change : 7
Maximum number of days between password change : 30
Number of days of warning before password expires : 7
kevin@kevins-computer:~/Documents/Hero_Vired/Assignment3$
```