- PDF contain detailed steps to configure Router2 including the steps for conducting SSH test

1. Basic Configuration of R2

- Set Hostname

```
enable
configure terminal
hostname R2
exit
```

- Set Domain Name

```
configure terminal
ip domain-name ee462.kau.edu.sa
exit
```

2. Create User for SSH Access

- Create a Username and Password

```
configure terminal
username user secret 123456
exit
```

3. Configure Console and Enable Secret

- Set Console Login to Local and Set Enable Secret

```
configure terminal
line console 0
login local
exit
enable secret 123456
exit
```

4. Configure IP Addresses on Interfaces

- Assign IP Addresses to the Interfaces

```
configure terminal
interface GigabitEthernet0/0
ip address 10.10.12.1 255.255.255.252
no shutdown
exit
interface GigabitEthernet1/0
ip address 10.10.11.2 255.255.255.252
no shutdown
exit
interface GigabitEthernet2/0
ip address 192.168.30.254 255.255.255.0
no shutdown
exit
```

5. Enable and Configure SSH

- Generate RSA Key and Configure SSH on VTY Lines

```
configure terminal
crypto key generate rsa
```

When prompted for the key size i choise 1024.

```
line vty 0 4
transport input ssh
login local
exit
```

6. Save Configuration

- Write Configuration to Memory

```
write memory
```

Nedal Bamuflih **2035170**

7. Testing SSH Connection

SSH from PC0 to R2

Open Command Prompt on PC0:

Access the command prompt or terminal on PC0.

Initiate SSH Connection:

Use the following command:

```
ssh -l user 192.168.30.254
```

8. IP route

```
ip route 192.168.10.0 255.255.255.0 10.10.12.2 1
ip route 192.168.20.0 255.255.255.0 10.10.11.1 1
```

- Take a screen shot of the entire screen showing the list of commands in configuration mode of R2