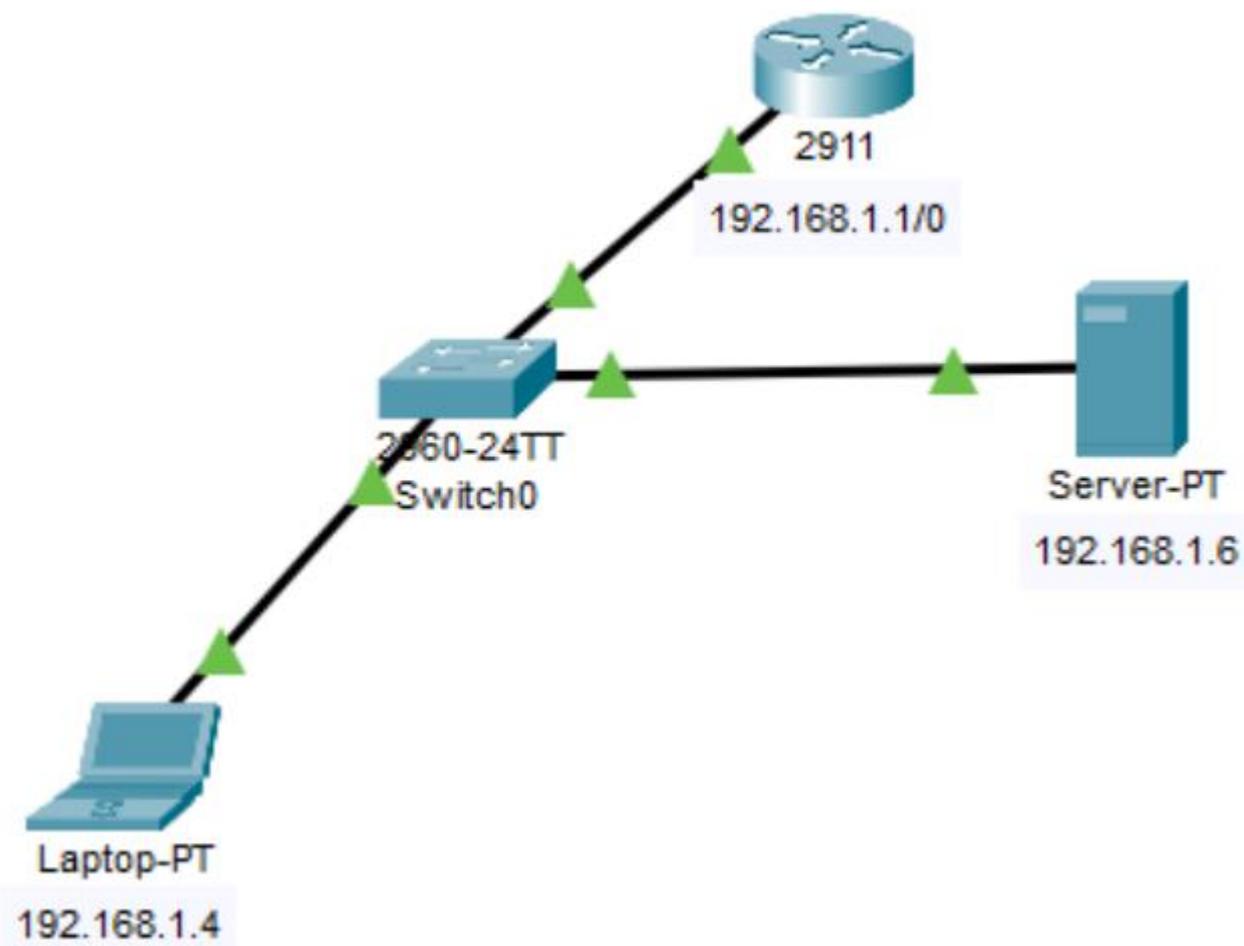


AAA

Authentication, Authorization and Accounting

Network security (practical)

MSc.Alyaa mohammed Rida



Authentication

Step 1:

```
Router(config)#hostname R1  
R1(config)#enable secret cisco
```

Step 2:

```
R1(config)#ip domain-name m.com  
R1(config)#crypto key generate rsa
```

Step 3:

```
R1(config)#aaa new-model
```

```
R1(config)#aaa authentication login default group radius
```

Step 4:

```
R1(config)#line vty 0 4
```

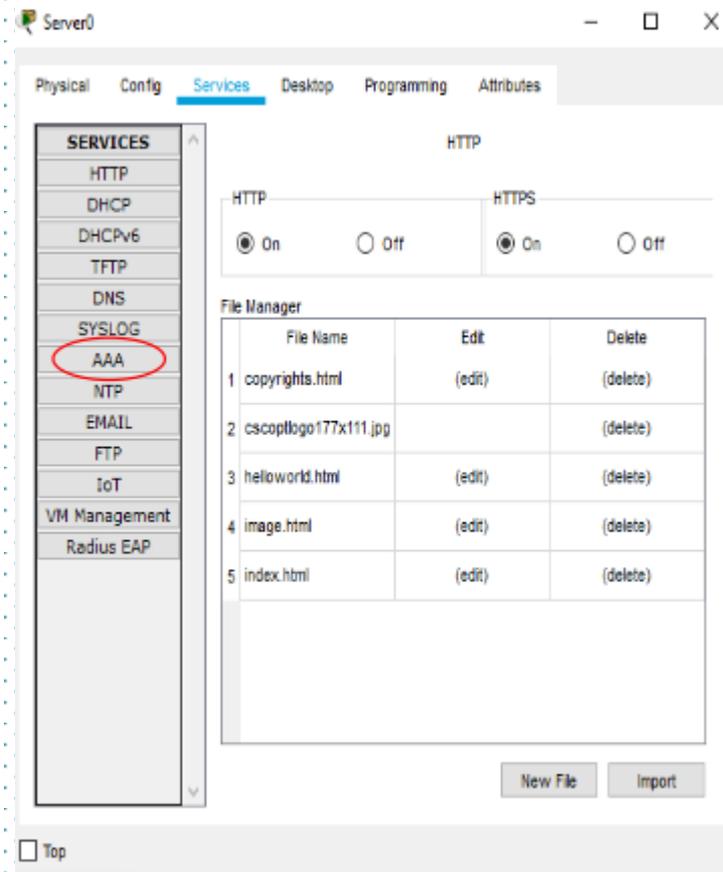
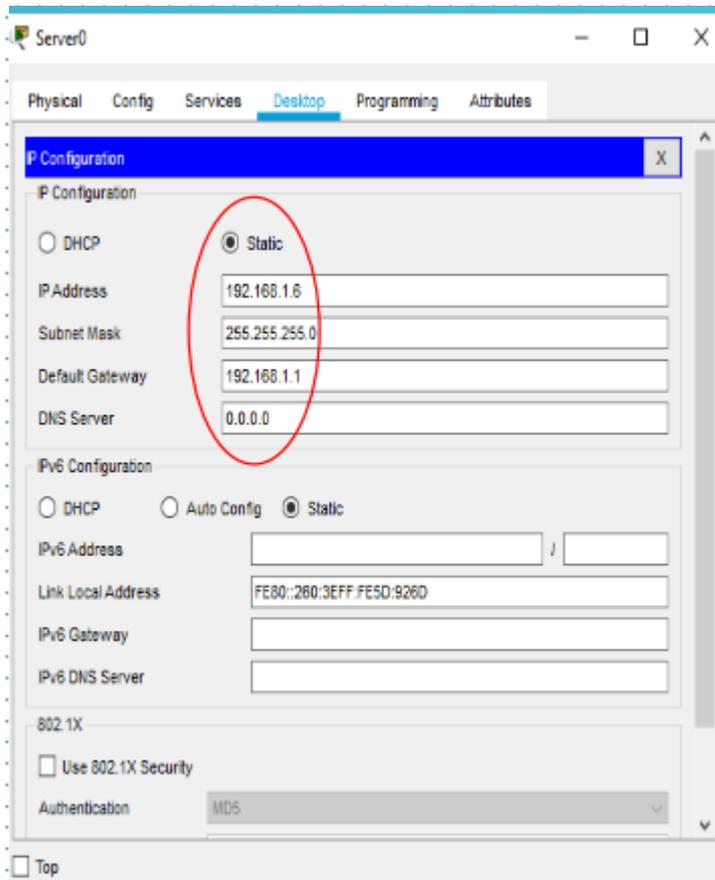
```
R1(config-line)#login authentication default
```

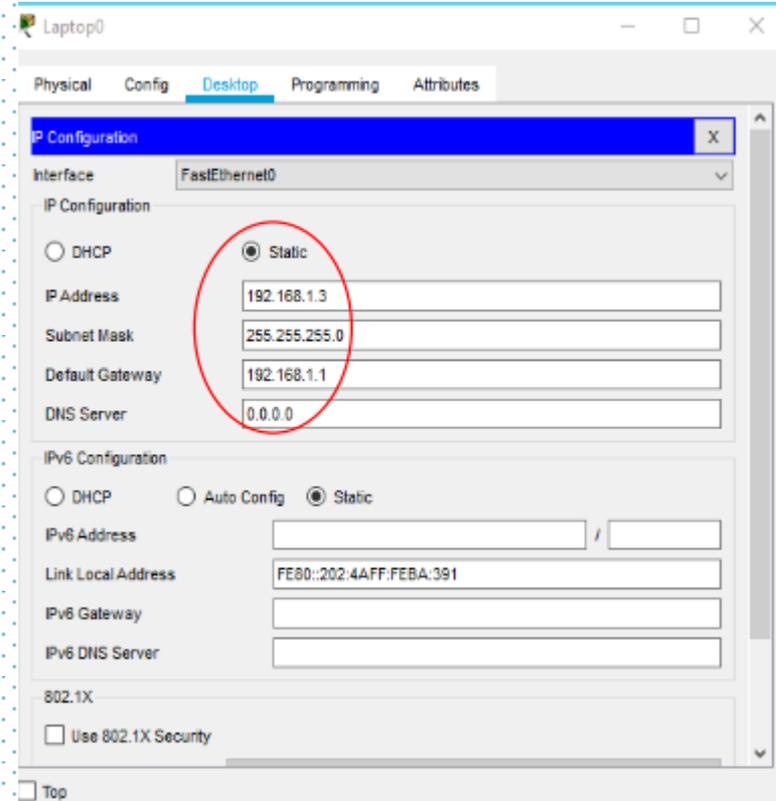
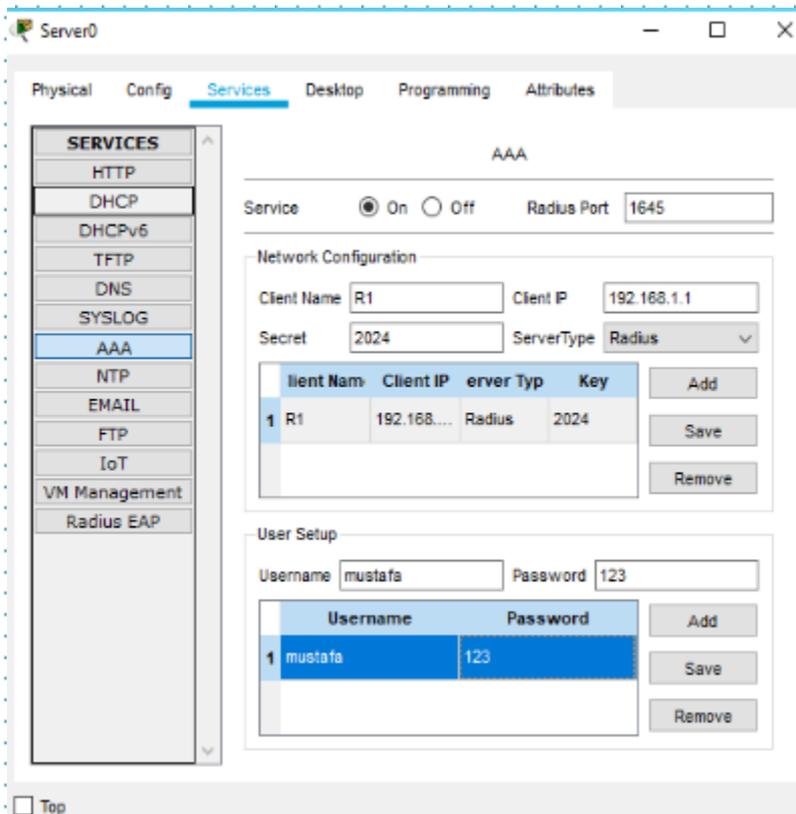
```
R1(config-line)#transport input ssh
```

```
R1(config-line)#exit
```

STEP 5:

R1(config)#radius-server host 192.168.1.4 key 2026





Step 6

*c:\>ssh-l 192.168.1.1

*R1(config)#username m secret 12121

```
Router(config)#hostname R1  
R1(config)#enable secret cisco
```

```
R1(config)#ip domain-name m.com  
R1(config)#crypto key generate rsa
```

```
R1(config)#aaa new-mode  
R1(config)#aaa authentication login default group radius
```

```
R1(config)#line vty 0 4  
R1(config-line)#login authentication default  
R1(config-line)#transport input ssh  
R1(config-line)#exit
```

```
R1(config)#radius-server host 192.168.1.6 key 2024
```

```
C:\>ssh -l alyaa 192.168.1.1
```

```
R1(config)#username m secret 1212
```

TACACS

```
Router(config)#hostname R1
```

```
R1(config)# AAA new-model
```

```
R1(config)#aaa authentication login default  
grouptacacs+ local
```

```
R1(config)# tacacs-server host 192.168.1.2 R1(config)#  
tacacs-server key 1212
```

AUTHORIZATION

```
Router(config)#username ayman privilege 15  
secret123.
```

```
Router(config)#username youseef privilege  
7 secret123.
```

```
Router#show privilege  
Current privilege level is 15
```

ACCOUNTING

```
R2(config)#aaa new-model
```

```
R2(config)#aaa accounting exec default  
start-stopgroup radius
```

```
R2(config)# radius-server host 192.168.1.2
```

```
Router(config)#privilege exec level 7 conf t
```

```
Router(config)#privilege configure level 7  
hostname
```