

### Exercise 3

- 1) Dns : permet de traduire un nom de domaine en adresse IP.  
Dhcp : permet d'attribuer automatiquement des adresses IP, ainsi que des informations complémentaires.

- 2) RIPv2 :

```
kenitra(config)#router rip
kenitra(config-router)#ve
kenitra(config-router)#version 2
kenitra(config-router)#net
kenitra(config-router)#network 11.0.0.0
kenitra(config-router)#network 12.0.0.0
```

les interfaces :

```
kenitra(config)#interface FastEthernet0/0
kenitra(config-if)#ip address 11.0.0.1 255.0.0.0
```

```
kenitra(config)#interface FastEthernet0/1
kenitra(config-if)#ip address 12.0.0.1 255.0.0.0
```

- 3)

```
kenitra#show ip route
```

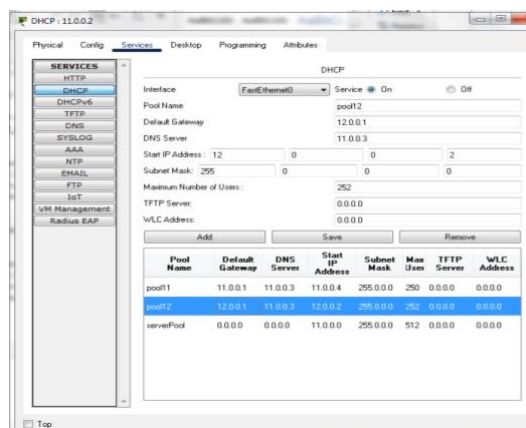
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP  
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area  
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2  
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP  
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area  
- candidate default, U - per-user static route, o - ODR  
P - periodic downloaded static route

Gateway of last resort is not set

C 11.0.0.0/8 is directly connected, FastEthernet0/0

C 12.0.0.0/8 is directly connected, FastEthernet0/1

- 4)



```

syntaxe(config)#ip dhcp pool pool11
syntaxe(dhcp-config)#network 11.0.0.0 255.255.0.0
syntaxe(dhcp-config)#default-router 11.0.0.1
syntaxe(dhcp-config)#dns-server 11.0.0.3

syntaxe(dhcp-config)#exit
syntaxe(config)#ip dhcp excluded-address 11.0.0.1 11.0.0.3

```

```

syntaxe(config)#ip dhcp pool pool12
syntaxe(dhcp-config)#network 12.0.0.0 255.255.0.0
syntaxe(dhcp-config)#default-router 12.0.0.1
syntaxe(dhcp-config)#dns-server 11.0.0.3

```

- 5)  
mettre l'interface E1 comme un agent de relai :

```

kenitra(config)#interface FastEthernet0/1
kenitra(config-if)#ip helper-address 11.0.0.2

```

- 6) L'interface E1

- 7) perte de bande passante.

```

kenitra(config)#ip dhcp pool pool11
kenitra(dhcp-config)#network 11.0.0.0 255.255.0.0
kenitra(dhcp-config)#default-router 11.0.0.1
kenitra(dhcp-config)#dns-server 11.0.0.3

kenitra(dhcp-config)#exit
kenitra(config)#ip dhcp excluded-address 11.0.0.1 11.0.0.3

```

```

kenitra(config)#ip dhcp pool pool12
kenitra(dhcp-config)#network 12.0.0.0 255.255.0.0
kenitra(dhcp-config)#default-router 12.0.0.1
kenitra(dhcp-config)#dns-server 11.0.0.3

```

- 8) la topologie :

