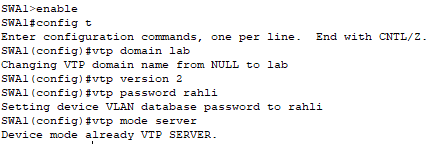
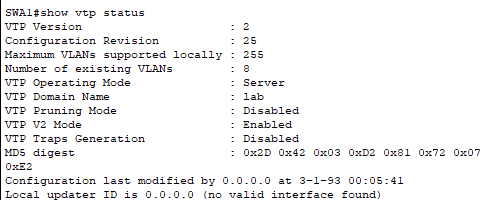
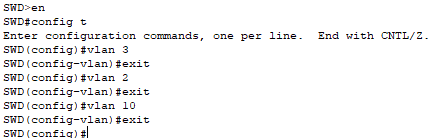
**PARTIE RESEAUX**

**1. Vlans configuration Site A**

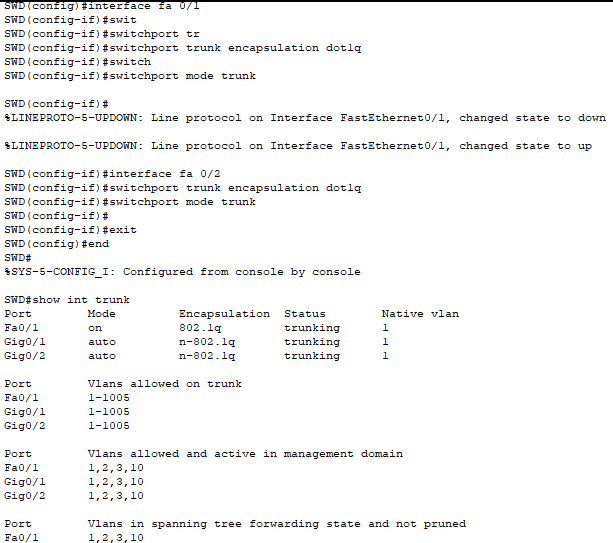


On fait la même chose pour les switch SWA2 et SWD

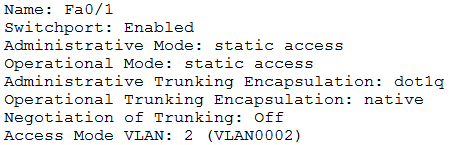
**SWD :**

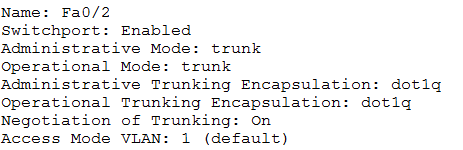


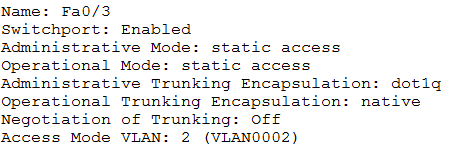
* Interfaces de SWD

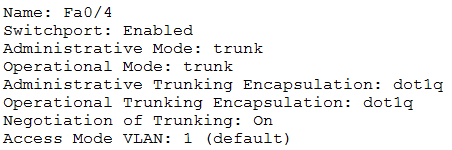


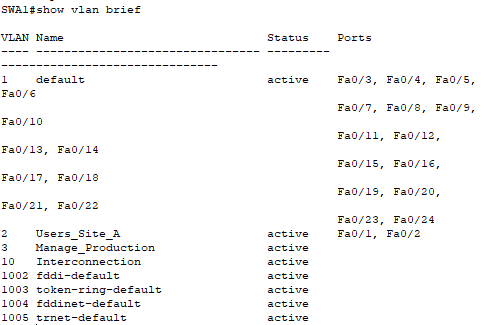
* Interfaces de SWA1



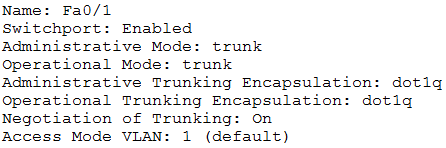


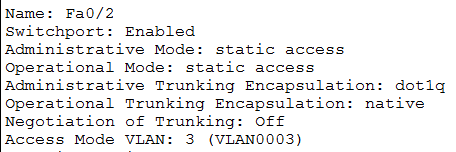


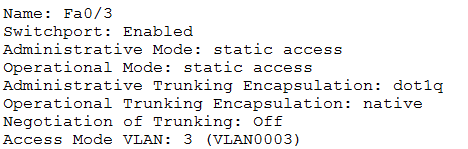


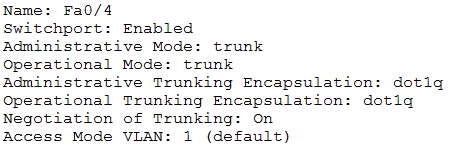


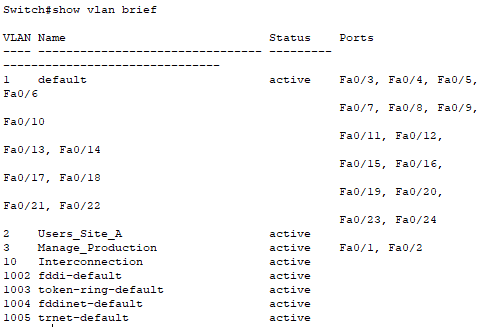
* Interfaces de SWA2





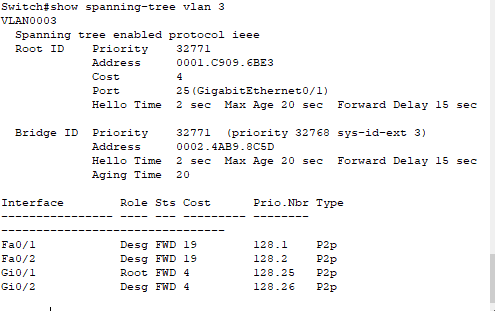


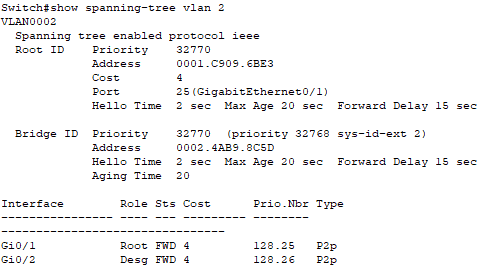


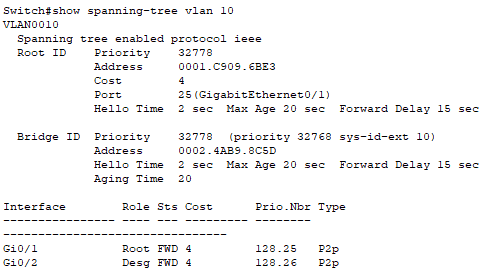


**2. Spanning-tree**

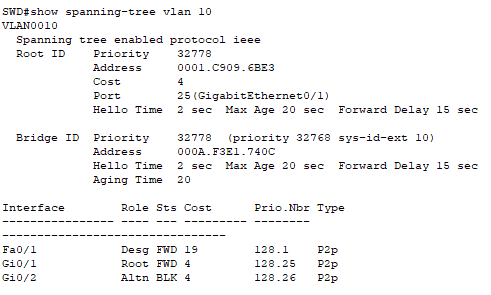
* **SWA2**

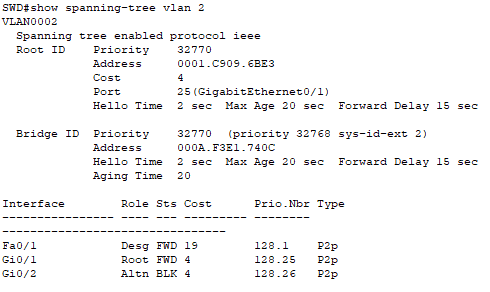


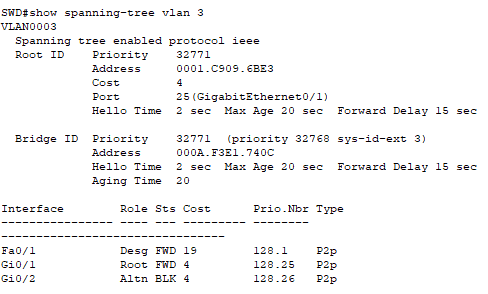




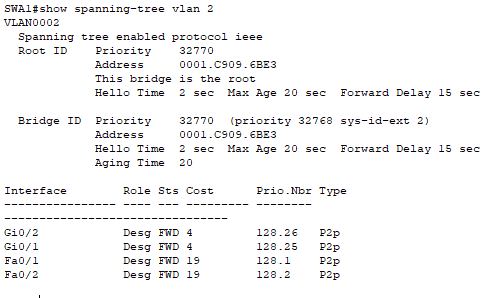
* **SWD**



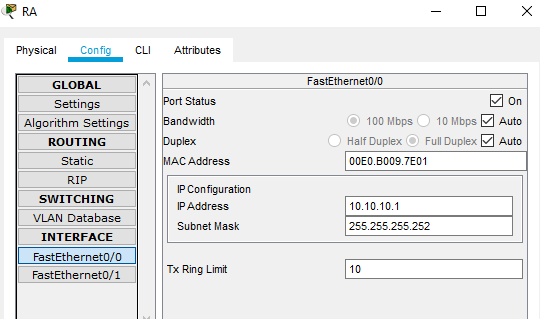


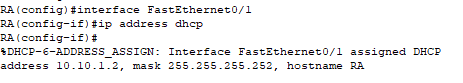


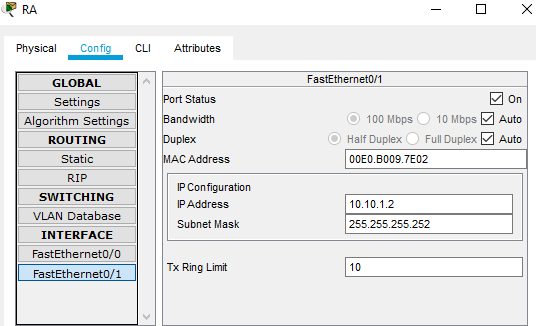
* **SWA1**

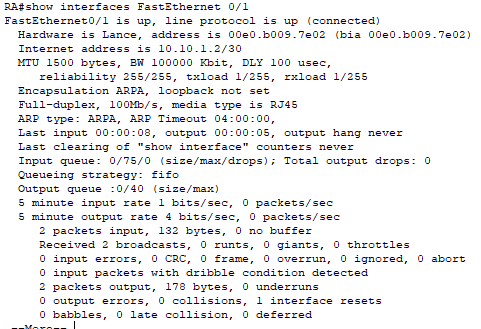


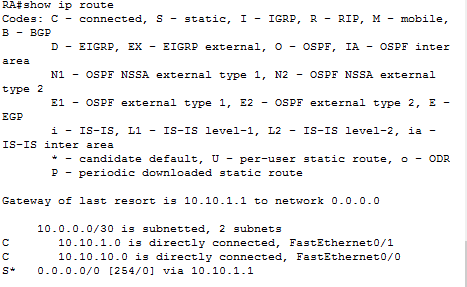
**3. Configure IP for cisco devices**



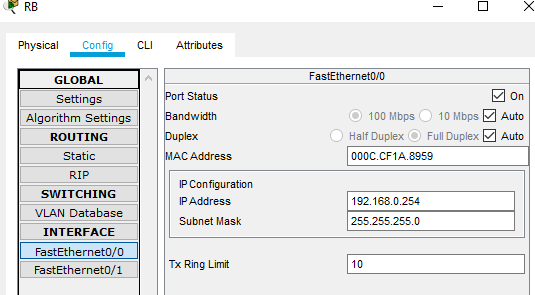


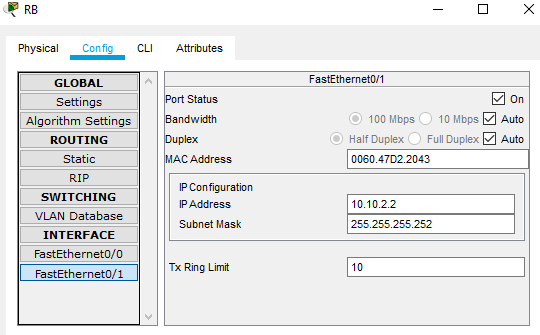


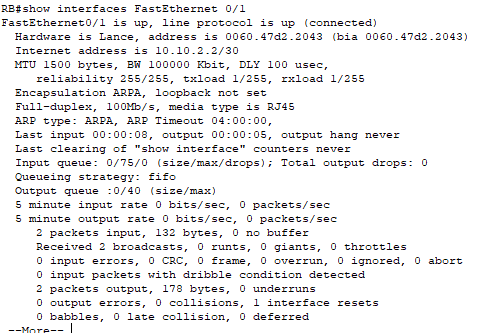


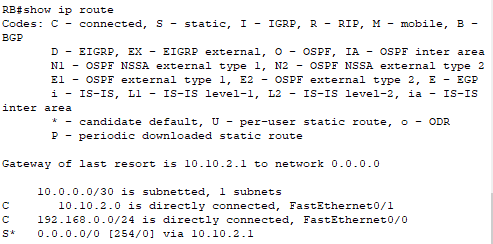


* **RB**







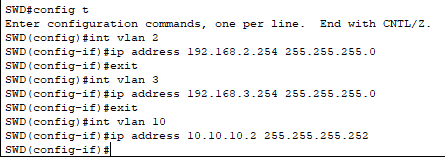


**SWD : VLAN interfaces**

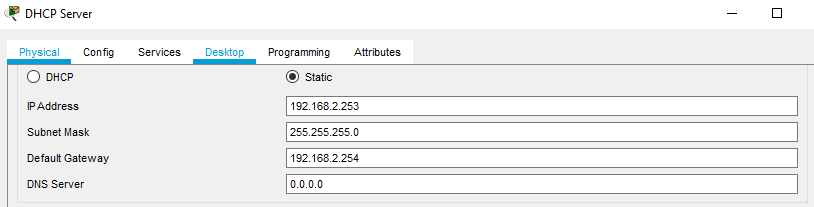
**VLAN 2 : 192.168.2.254/24**

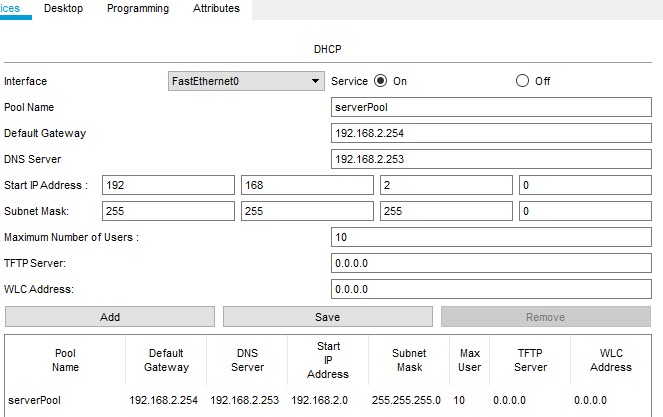
**VLAN 3: 192.168.3.254/24**

**VLAN 10 : 10.10.10.2/30**

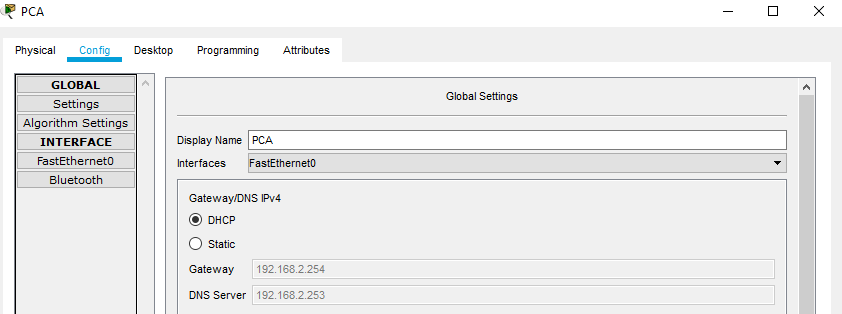


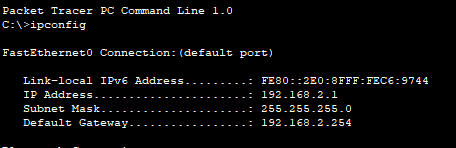
**4. Configure the DHCP Server to attribute the IP configuration to PCA.**



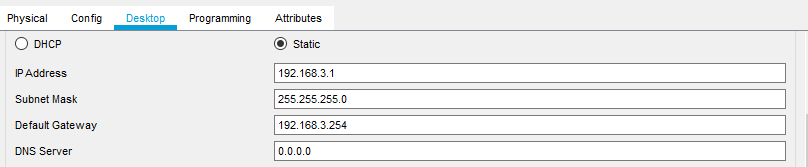


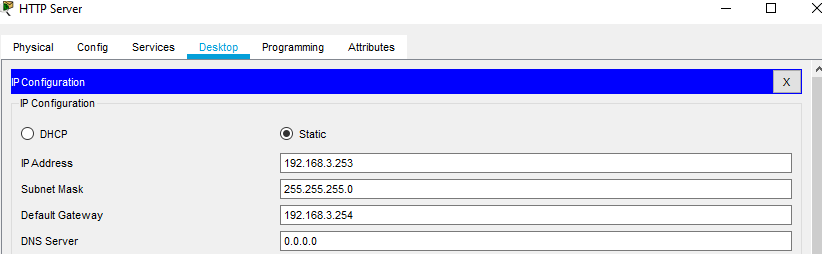
**5. Configure the PCA on DHCP**

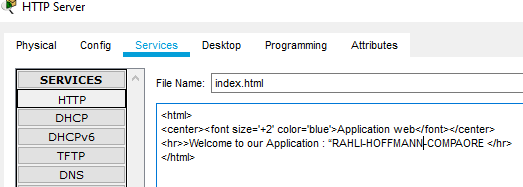




**6. Configure PCT et HTTP server**

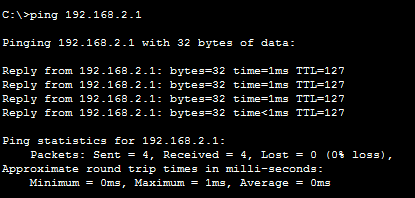


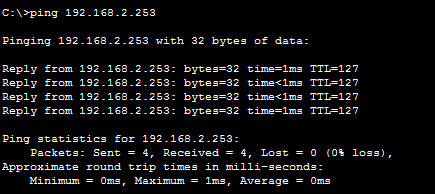


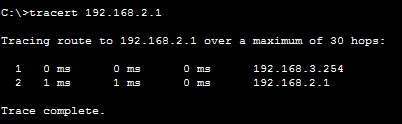


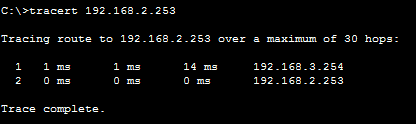
**7. Ping et verification**

**FROM PCT TO PCA AND DHCP SERVER**

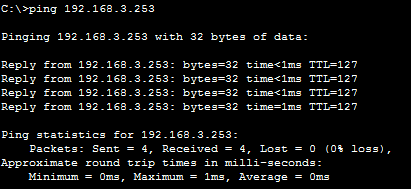
****

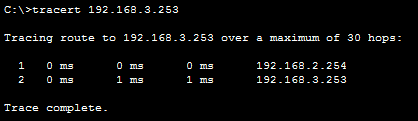
****

****

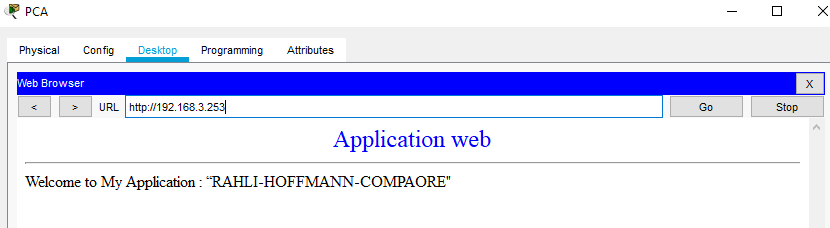
****

**From PCA to HTTP Server**

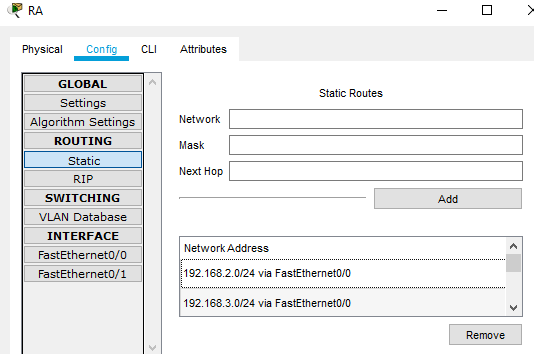
****

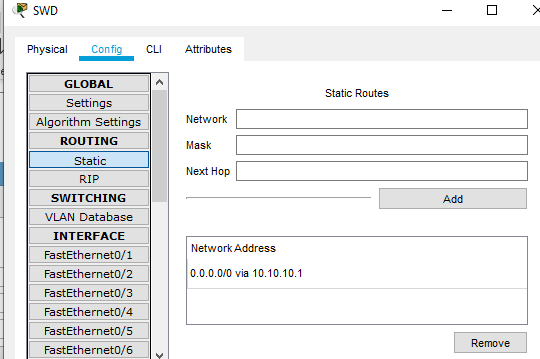
****

* **Use the Web Browser of PCA to connect to the HTTP Server**

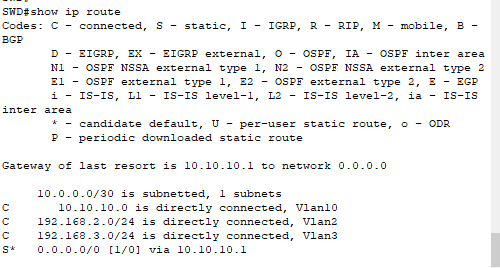


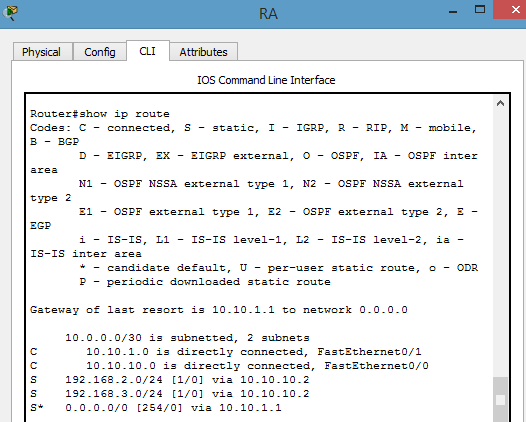
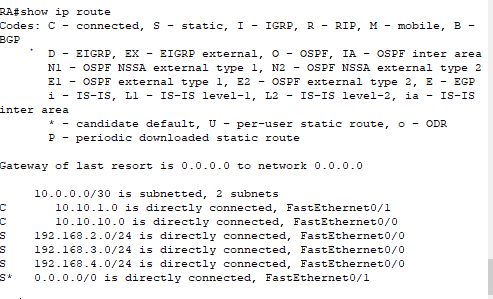
**8. Configure the routing on SWD and RA :**



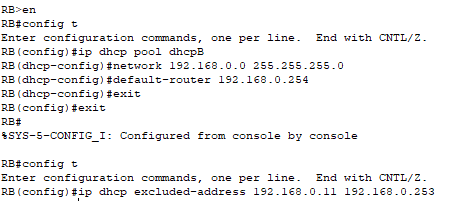


* **Make a show ip route on RA and SWD (copy screenshot hereafter)**

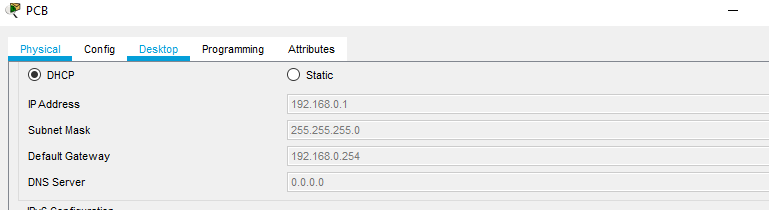


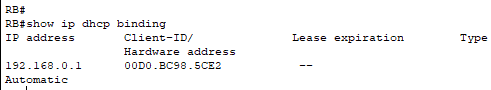
****

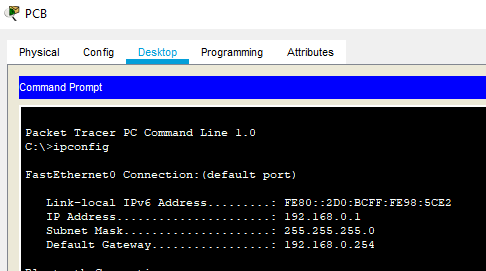
**9. Configure dhcp server on the router RB**



**10. Configure the PCB on DHCP**



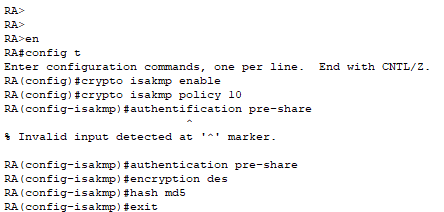




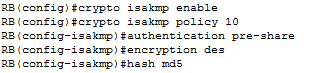
**PARTIE SECURITE**

**11. You will configure a tunnel IPSec between RA and RB to provide a secure communication between Site A and Site B.**

* **Configure a ISAKMP policy**
* **RA**



* **RB**

****

* **Configure a pre-shard key ( the same key must be configured on the two routers) with the peer WAN IP address ( RA is the peer of RB)**





* **Configure transform-set labset , you will use esp protocol**
* **Encryption algorithm 3DES**
* **Hash algorithm sha**

****

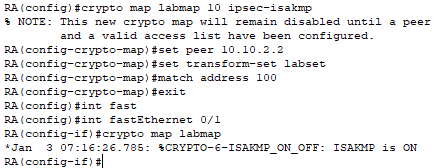
****

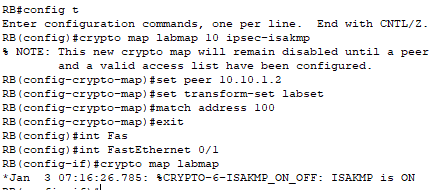
* **Configure an access-list 100 to define interesting VPN traffic (the LANs subnet => encryption domains).**



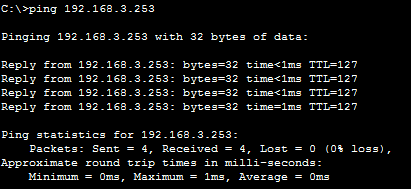


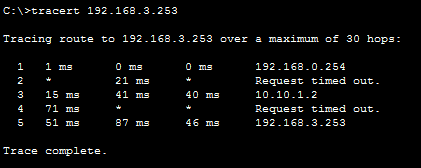
* **Configure the crypto map labmap**
* **Set the peer address**
* **Use the transform labset.**
* **Match the access-list 100**





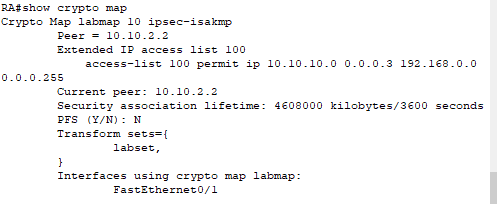
**12. Ping Server HTTP from PCB (copy screenshot hereafter).**

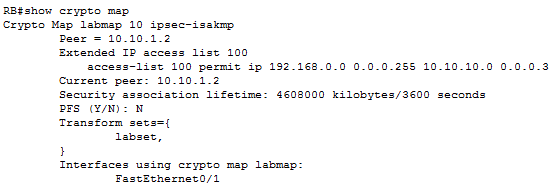
****

****

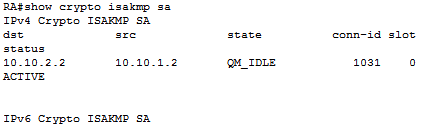
**15. Execute the commands on the RA and RB (copy screenshot hereafter).**

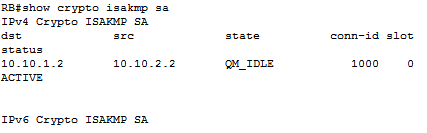
* **show crypto map**



****

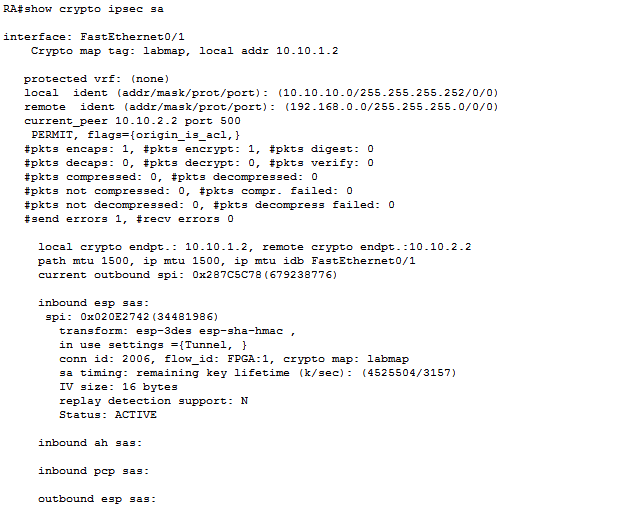
* **show crypto isakmp sa**

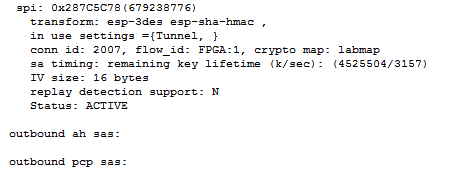
****

****

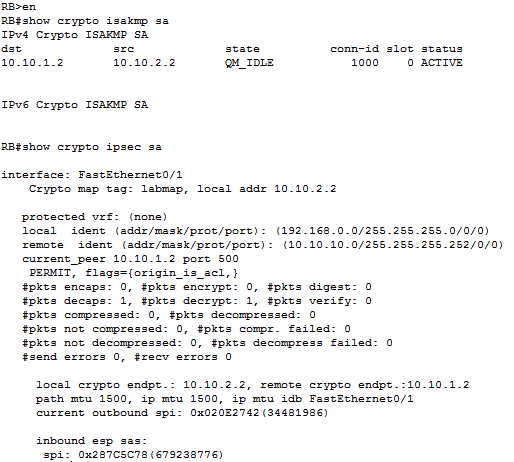
* **show crypto ipsec sa**

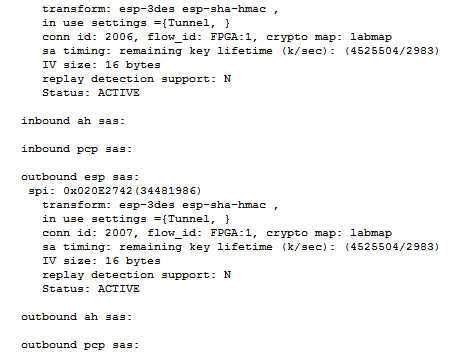
**RA :**

****

****

**RB:**

****

****