

Section : Licence PRO SRSI Réalisé par : Honvault Mickaël	Sujet : Memento Cisco Version 2	LYCÉE PARC DE VILGÉNIS
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<u>ddedsfdBase</u> R1>enable R1#configure terminal R1(conf t)#hostname R2 R2(config)#banner motd #Bienvenuesur R2# R2(config)#no banner motd R2(config)#no ip domain-lookup R2(config)#exit R2#conf t R2(config)#end R2#reboot R2(config) clock set 22:50:00 may 11 2017	<u>Show</u> R2#show running-config R2#show startup-config R2(config)# do sh run R2#show ru begin regex R2#show ru begin interface fastEthernet0/1 R2#show ru include interface R2#show ru section include interface <u>SNMP</u> R1#(config)no snmp-server community public RO R1#(config)snmp-server community private RO R1#(config)snmp-server enable traps ? R1#(config)snmp-server host 10.0.0.1 private	<u>Save/restore</u> R2#copy ru st R2#copy st ru R2#copy running-config startup-config R2#erase startup-config R2#erase ru R2#write R2#copy ru tftp:/ R2#copy ru tftp://10.0.0.1/runningtext.txt		
<u>VLAN</u> S1#vlan database S1(vlan)#vlan 10 name INFO S1(vlan)#vlan 10 S1(vlan)#no vlan 10 S1(vlan)#exit S1#conf t S1(config)#int vlan 10 S1(config-if)#ip address 192.168.0.0 255.255.255.0 S1(config-if)# no sh S1(config-if)#switchport mode access S1(config-if)#switchport access vlan 20 S1(config-if)#switchport mode trunk S1(config-if)#switchport trunk allowed vlan add 2,3,10 S1(config-if)#switchport trunk allowed vlan remove 3 S1(config-if)#switchport trunk native vlan 10	<u>VTP</u> S1#vlan database S1(vlan)#vtp server S1(vlan)#vtp v2-mode S1(vlan)#vtp version 2 S1(vlan)#vtp domain honvault.fr S1(vlan)#vtp password PWD S1(vlan)#vtp client S1(vlan)#vtp transparent			
<u>Connexion sécurisée</u> <u>SSH :</u> <u>Génération de la clé :</u> R2(config)#crypto key generate rsa <i>Donner le nom de domaine : honvault.org</i> <i>Spécifier le nombre de bit à utiliser pour la generation de la clé 1024 bits</i> <u>Activer le SSH :</u> R2(config)#ip ssh version 2			<u>Sécurisation de la connexion :</u> R2(config)# ip ssh logging events R2(config)# ip ssh time-out 60 R2(config)# ip ssh authentication-retries 3 <u>Créer un compte utilisateur :</u> R2(config)#username mhonvault secret P@ssword/59 <u>Affecter des lignes vty :</u> R2(config)#line vty 0 15 R2(config-line)#login local R2(config-line)#transport input ssh	
<u>Sécurité</u> R2(config)#enable secret honvault R2(config)#service password-encrvption	<u>Reset</u> <u>Solution 1 :</u> R2#erase startup-config			

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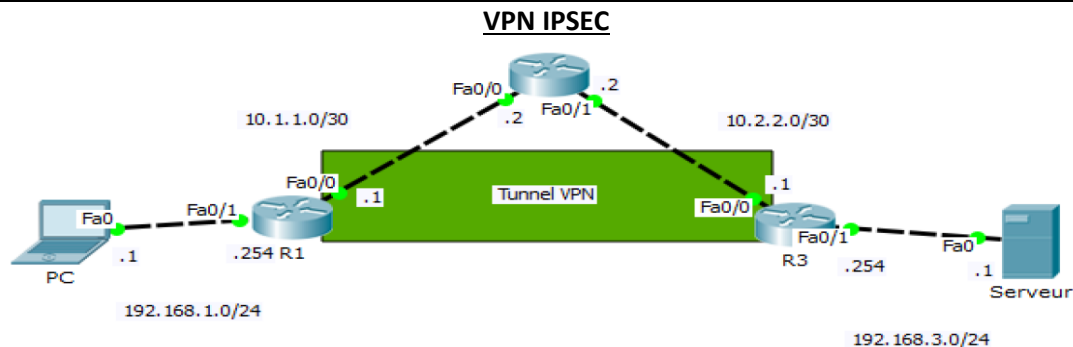
S1(config-if)#switchport port-security mac-address 0001.4299.E010 S1(config-if)#switchport port-security mac-address sticky S1(config-if)#switchport port-security violation shutdown/protect/restrict S1(config-if)# switchport port-security maximum x S1(config)#no cdp run S1(config)#spanning-tree bpduguard enable		<u>Solution 2 : désactiver la startup-config :</u> R2(config)#config-register 0x2142 R2#reload <u>Réactiver la startup :</u> R2(config)#config-register 0x2102	
<u>Configuration IPV4</u> R2(config)#int fa0/1 R2(config-if)#ip address 10.0.0.1 255.255.255.0 R2(config)#int s0/0 R2(config-if)#ip address 10.0.1.1 255.255.255.0 S1(config)#int vlan 200 S1(config-if)#ip address 10.1.200.1 255.255.0.0 S1(config-if)#no switchport S1(config-if)#ip address 10.0.2.1 255.255.255.0		<u>Configuration IPV6</u> R2(config)#ipv6 unicast-routing R2(config-if)#ipv6 enable R2(config-if)#ipv6 address 2001:db8:acad::1 R2(config-if)#ipv6 address 2001::1 R2(config-if)#ipv6 address FD00::1 R2(config-if)#ipv6 address FE80::1 link-local	
<u>Router on stick</u> R2(config)#int fa0/0.10 R2(config-subif)#encapsulation dot1q 10 R2(config-subif)#ip address 10.0.10.1 255.255.255.0		<u>Switch level 3</u> S1(config)#ip routing S1(config-if)switchport trunk encapsulation dot1q S1(config-if)switchport mode trunk S1(config)#int vlan 20 S1(config-if)#ip address 10.0.2.1 255.255.255.0	
<u>DHCP</u> <u>Router serveur :</u> R1(config)#ip dhcp pool MonVLAN R1(dhcp-config)#network 10.0.0.0 255.255.255.0 R1(dhcp-config)#default-router 10.0.0.1 R1(config)#ip dhcp excluded-address 10.0.0.10 10.0.0.20 R1(config)#ip dhcp excluded-address 10.0.0.25 10.0.0.30 <u>Relay DHCP :</u> R2(config-subif)#ip helper-address 10.0.0.1		<u>Connexion</u> <u>Telnet :</u> R2(config)#line vty 0 4 R2(config-line)#password PWD R2(config-line)#login <u>Console :</u> R2(config)#line console 0 R2(config)#password Cisco R2(config)#login	
<u>Routage IPV4 Static</u> R1(config)#ip route 0.0.0.0 0.0.0.0 s0/0 R1(config)#ip route 0.0.0.0 0.0.0.0 10.0.0.1 R1(config)#ip route 10.1.0.0 0.0.0.255 s0/0 R1(config)#ip route 10.1.0.0 0.0.0.255 s0/0 10.0.0.1 20		<u>Routage IPV6 Static</u> R1(config-if)#ipv6 route 2001:ABCD:2::/48 2001:ABCD::C200:AFF:FE78:6 R1(config-if)#ipv6 route 2001:ABCD:2::/48 serial0/1 FE80::2 20 20 étant la distance administrative	
<u>Routage RIP IPV4</u> R1(config)#router rip R1(config-router)#version 2 R1(config-router)#no auto-summary R1(config-router)#network 10.0.0.0		<u>Routage RIP IPV6</u> R1(config)#ipv6 router rip HONVAULT R1(config-rtr)#redistribute static R1(config-if)#ipv6 rip HONVAULT enable	

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R1(config-router)#passive-interface fa0/0 R1(config-router)#redistribute ospf 1	
<u>Routage OSPF IPV4</u> R1(config)#router ospf 1 R1(config-router)#router-id 1.1.1.1 R1(config-router)#network 10.0.0.0 0.0.0.255 area 0 R1(config-router)#network 192.168.10.0 0.0.0.255 area 2 R1(config-router)#network 192.168.10.1 0.0.0.0 area 2 (10.1 étant mon interface)	<u>Routage OSPF IPV6</u> R2(config)#ipv6 router ospf 1 R2(config-rtr)#router-id 1.1.1.2 R2(config)#int s1/0 R2(config-if)#ipv6 ospf 1 area 0
<u>ACL IPV6</u> R1(config)#ipv6 access-list www R1(config-ipv6-acl)#permit tcp 2001 :db8 :acad :10 ::/64 FD00/64 eq www R1(config-ipv6-acl)#deny ip any any R1(config-if)ipv6 traffic-filter www out	<u>ACL IPV4</u> R2(config)#ip access-list extended reseau-secretariat R2(config-ext-nacl)#permit tcp host 192.168.2.12 gt 1023 192.168.3.0 0.0.0.255 eq 22 R2(config-ext-nacl)#permit tcp any any established R2(config-ext-nacl)#deny ip any any log R2(config)#int fa1/1 R2(config-if)#ip access-group reseau-secretariat out R2#clear access-list counter
<u>VOIP</u> S1(config)#int fastEthernet 0/1 S1(config)#switchport voice vlan 10	R2(config)#line vty 0 4 R2(config-line)#access-class 21 in R2(config-ext-nacl)#15 deny ip host 111.111.111.111 any R2(config)#ip access-list resequence www 10 10
<u>Portfast</u> S1(config-if)#spanning-tree portfast	
<u>Logging</u> S1(config)#service timestamps S1(config)#logging 192.168.10.67 S1(config)#logging facility local5	
<u>HSRP</u> R1(config-if)#standby 10 ip 192.168.0.5 R1(config-if)#standby 10 preempt R1(config-if)#standby 10 priority 110 R1(config-if)#standby 10 authenticate md5 Mdp R2(config-if)#standby 10 ip 192.168.0.5 R2(config-if)#standby 10 preempt R2(config-if)#standby 10 priority 105 R2(config-if)#standby 10 authenticate md5 Mdp	<u>Agregation / Etherchannel / LACP</u> S1(config)#interface range fa 0/1 - 2 S1(config-if-range)#channel-group 1 mode active S1(config-if-range)#channel-protocol lacp S1(config)#interface port-channel 1 S1(config-if)#switchport mode trunk S1(config-if)#switchport trunk allowed vlan 10, 20, 30 S1(config-if)#no shutdown
<u>NAT</u> <u>Fa0/0 → patte privée FA0/1 patte public :</u> R2(config)#interface fa0/0 R2(config-if)#ip nat inside R2(config-if)#exit R2(config)#interface fa0/1 R2(config-if)#ip nat outside	<u>Tunnel Gre</u> R1(config)#interface Tunnel0 R1(config-if)#tunnel mode gre ip R1(config-if)#ip address 192.168.2.1 255.255.255.0 R1(config-if)#tunnel source 209.165.201.1 R1(config-if)#tunnel destination 209.165.202.130 -----

```
R2(config-if)#exit
R2(config)#access-list 1 permit 192.168.0.0
0.0.0.255
R2(config)#ip nat inside source list 1
interface fa0/1 overload
```

```
R2(config)#interface Tunnel0
R2(config-if)#tunnel mode gre ip
R2(config-if)#ip address 192.168.2.2 255.255.255.0
R2(config-if)#tunnel source 209.165.202.130
R2(config-if)#tunnel destination 209.165.201.1
```



```
R1(config)#crypto isakmp enable
R1(config)#crypto isakmp policy 10
R1(config-isakmp)#authentication pre-share
R1(config-isakmp)#encryption 3des
R1(config-isakmp)#hash md5
R1(config-isakmp)#group 5
R1(config-isakmp)#lifetime 3600
R1(config-isakmp)#exit
R1(config)#crypto isakmp key 6 @Z3rTl/91
address 10.2.2.1
R1(config)#crypto ipsec transform-set 50 esp-
3des esp-md5-hmac
R1(config)#crypto ipsec security-association
lifetime seconds 1800
R1(config)#access-list 101 permit ip 192.168.1.0
0.0.0.255 192.168.3.0 0.0.0.255
R1(config)#crypto map cryptoHONVAULT 10
ipsec-isakmp
R1(config-crypto-map)#set peer 10.2.2.1
R1(config-crypto-map)#set transform-set 50
R1(config-crypto-map)#set security-association
lifetime seconds 900
R1(config-crypto-map)#match address 101
R1(config-crypto-map)#exit
R1(config)#interface FastEthernet 0/0
R1(config-if)#crypto map cryptoHONVAULT
```

```
R3(config)#crypto isakmp enable
R3(config)#crypto isakmp policy 10
R3(config-isakmp)#authentication pre-share
R3(config-isakmp)#encryption 3des
R3(config-isakmp)#hash md5
R3(config-isakmp)#group 5
R3(config-isakmp)#lifetime 3600
R3(config-isakmp)#exit
R3(config)#crypto isakmp key 6 @Z3rTl/91
address 10.1.1.1
R3(config)#crypto ipsec transform-set 50 esp-
3des esp-md5-hmac
R3(config)#crypto ipsec security-association
lifetime seconds 1800
R3(config)#access-list 101 permit ip 192.168.3.0
0.0.0.255 192.168.1.0 0.0.0.255
R3(config)#crypto map cryptoHONVAULT 10
ipsec-isakmp
R3(config-crypto-map)#set peer 10.1.1.1
R3(config-crypto-map)#set transform-set 50
R3(config-crypto-map)#set security-association
lifetime seconds 900
R3(config-crypto-map)#match address 101
R3(config-crypto-map)#exit
R3(config)#interface fa0/0
R3(config-if)#crypto map cryptoHONVAULT
```

Les commandes de Lecture de configuration

```
show ip route
show ipv6 route
show vlan
show vtp status
show interface brief
```

```
show ip protocols
show ip ospf
show ip ospf interface
show ip ospf neighbor
show access-list
```

```
show port-security address
show port-security int fa0/0
show etherchannel 1 summary
show interfaces port-channel 1
show etherchannel port-channel
```