TP2

Ex 4

Configure SSH Router

```
enable
configure terminal
hostname r1
ip domain-name example.com
crypto key generate rsa modulus 2048
username admin privilege 15 secret toto
ip ssh version 2
ip ssh time-out 60
ip ssh authentication-retries 3
line vty 0 4
transport input ssh
login local
exit
end
write memory
```

Configure SSH Switch

```
enable
configure terminal

interface Vlan1
  ip address 192.168.56.103 255.255.255.0
  no shutdown
  exit

interface Ethernet0/0
  switchport mode access
  switchport access vlan 1
  no shutdown
  exit

hostname sw1
```

```
ip domain-name example.com

crypto key generate rsa modulus 2048

username admin privilege 15 secret toto

ip ssh version 2

ip ssh time-out 60
ip ssh authentication-retries 3

line vty 0 4
    transport input ssh login local
    exit

end
write memory
```

Partie 1

```
(.venv) X toto@LPTC-PC1M4VZ3 □ /mnt/c/Users/blt/Documents/github/R511/TP2/ex4 □
☐ main ± ☐ ansible-playbook -i inventory.yml backup_router.yml
PLAY [AUTOMATIC BACKUP OF RUNNING-CONFIG]
********************************
***********
TASK [DISPLAYING THE RUNNING-CONFIG]
*******************************
***********
ok: [R1]
TASK [ENSURE BACKUPS DIRECTORY EXISTS]
***********************************
***********
changed: [R1 -> localhost]
TASK [SAVE OUTPUT TO ./backups/]
   ****************************
************
changed: [R1]
PLAY RECAP
*******************************
************************
R1
                 : ok=3
                        changed=2 unreachable=0 failed=0
skipped=0 rescued=0 ignored=0
(.venv) toto@LPTC-PC1M4VZ3 □ /mnt/c/Users/blt/Documents/github/R511/TP2/ex4 □ □
main ± □ 11 backups
```

```
total 4
drwxrwxrwx 1 toto toto 4096 Oct 11 11:08 .
drwxrwxrwx 1 toto toto 4096 Oct 11 11:08 ..
-rwxrwxrwx 1 toto toto 1102 Oct 11 11:08 show_run_R1.txt
(.venv) toto@LPTC-PC1M4VZ3 □ /mnt/c/Users/blt/Documents/github/R511/TP2/ex4 □ □
main ± □ cat backups/show_run_R1.txt
Building configuration...
Current configuration: 1042 bytes
! Last configuration change at 12:53:53 EET Fri Oct 11 2024
version 15.4
service config
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
hostname r1
boot-start-marker
boot-end-marker
no aaa new-model
clock timezone EET 2 0
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
mmi snmp-timeout 180
ip domain name example.com
ip cef
no ipv6 cef
multilink bundle-name authenticated
username admin privilege 15 secret 5 $1$hWrR$G9oLQg6r06ZauD4whfzBy.
redundancy
ip ssh time-out 60
ip ssh version 2
interface Ethernet0/0
 ip address dhcp
interface Ethernet0/1
 no ip address
 shutdown
interface Ethernet0/2
 no ip address
```

```
shutdown
!
interface Ethernet0/3
  no ip address
  shutdown
!
ip forward-protocol nd
!
  no ip http server
  no ip http secure-server
!
control-plane
!
line con 0
  logging synchronous
line aux 0
line vty 0 4
  login local
  transport input ssh
!
end%
```

Partie 2

```
(.venv) toto@LPTC-PC1M4VZ3 □ /mnt/c/Users/blt/Documents/github/R511/TP2/ex4 □ □
main ± □ ansible-playbook -i inventory.yml router_ipv4_conf.yml
PLAY [AUTOMATIC BACKUP OF INTERFACE STATUS]
***********************************
**********
TASK [Config ipv4 interface]
************
[WARNING]: To ensure idempotency and correct diff the input configuration lines
should be similar to how they appear if present in the running configuration
on device
changed: [R1]
TASK [DISPLAYING IP INTERFACE BRIEF]
                         *************
***********
ok: [R1]
TASK [ENSURE ios show DIRECTORY EXISTS]
***********************************
***********
ok: [R1 -> localhost]
TASK [SAVE INTERFACE STATUS TO ./ios_show/]
***********************************
***********
```



Switch

```
(.venv) X toto@LPTC-PC1M4VZ3 □ /mnt/c/Users/blt/Documents/github/R511/TP2/ex4 □
□ main ± □ ansible-playbook -i inventory.yml switch_conf.yml
PLAY [Configure Switch]
***********************************
*****************
TASK [Change hostname to SW BLT]
*******************************
************
[WARNING]: To ensure idempotency and correct diff the input configuration lines
should be similar to how they appear if present in the running configuration
on device
changed: [sw1]
TASK [Create VLAN 200]
*******************************
******************
changed: [sw1]
TASK [Configure interface Ethernet0/1 for VLAN 200]
                 *******************
*******
changed: [sw1]
TASK [Configure interface Ethernet0/2 for VLAN 200]
```

```
*********
changed: [sw1]
TASK [DISPLAYING THE RUNNING-CONFIG]
                               **************
***********
ok: [sw1]
TASK [ENSURE BACKUPS DIRECTORY EXISTS]
********************************
***********
ok: [sw1 -> localhost]
TASK [SAVE OUTPUT TO ./backups/]
**********************************
*************
changed: [sw1]
PLAY RECAP
*******************************
*********************
sw1
                      : ok=7
                              changed=5
                                        unreachable=0
                                                     failed=0
skipped=0 rescued=0 ignored=0
(.venv) toto@LPTC-PC1M4VZ3 □ /mnt/c/Users/blt/Documents/github/R511/TP2/ex4 □ □
main ± □ 11 backups
total 8
drwxrwxrwx 1 toto toto 4096 Oct 11 11:44 .
drwxrwxrwx 1 toto toto 4096 Oct 11 11:37 ...
-rwxrwxrwx 1 toto toto 1102 Oct 11 11:08 show_run_R1.txt
-rwxrwxrwx 1 toto toto 1225 Oct 11 11:44 show run sw1.txt
(.venv) toto@LPTC-PC1M4VZ3 □ /mnt/c/Users/blt/Documents/github/R511/TP2/ex4 □ □
main ± □ cat backups/show_run_sw1.txt
Building configuration...
Current configuration: 1165 bytes
! Last configuration change at 13:44:36 EET Fri Oct 11 2024 by admin
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
service compress-config
hostname SW_BLT
boot-start-marker
boot-end-marker
username admin privilege 15 secret 5 $1$uY/b$CopQq65Dak5jeM.WOB90u0
no aaa new-model
clock timezone EET 2 0
```

```
ip domain-name example.com
ip cef
no ipv6 cef
spanning-tree mode pvst
spanning-tree extend system-id
interface Ethernet0/0
 switchport mode access
interface Ethernet0/1
 switchport access vlan 200
 switchport mode access
interface Ethernet0/2
 switchport access vlan 200
 switchport mode access
interface Ethernet0/3
interface Vlan1
 ip address 192.168.56.103 255.255.255.0
ip forward-protocol nd
ip http server
ip ssh time-out 60
ip ssh version 2
ip ssh server algorithm encryption aes128-ctr aes192-ctr aes256-ctr
ip ssh client algorithm encryption aes128-ctr aes192-ctr aes256-ctr
control-plane
line con 0
logging synchronous
line aux 0
line vty 0 4
login local
transport input ssh
end%
```