

Script python pour le commutateur :

```
from time import sleep
import pyautogui

#attribution d'un nom aux vlan
sleep(5)
pyautogui.typewrite("en")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("conf t")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("vlan 10")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("name Windows")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("vlan 20")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("name Client")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("vlan 30")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("name Linux")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
```

```
#configuration vlan access et trunk

pyautogui.typewrite("Interface FastEthernet 0/1")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("switchport access VLAN 10")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("Interface FastEthernet 0/2")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("switchport access VLAN 20")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("Interface FastEthernet 0/3")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("switchport access VLAN 30")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("Interface FastEthernet 0/24")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("switchport mode trunk")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("switchport trunk allowed vlan all")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("write")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
```

Script python du routeur :

```
from time import sleep
import pyautogui

##Démarrage + Enable

sleep(5)
pyautogui.typewrite("en")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("conf t")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)

##Configuration Interface fe0/0 - fe 0/1

pyautogui.typewrite("Interface FastEthernet 0/0")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("no sh")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("Interface FastEthernet 0/1")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip address 172.16.43.1 255.255.248.0")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("no sh")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
```

```
##Configuration Interface Fe0/0.10

pyautogui.typewrite("Interface FastEthernet 0/0.10")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("encapsulation dot1Q 10")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip address 192.168.10.6 255.255.255.248")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip helper-address 192.168.10.1")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip helper-address 192.168.10.2")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip nat inside")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)

##Configuration Interface Fe0/0.20

pyautogui.typewrite("Interface FastEthernet 0/0.20")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("encapsulation dot1Q 20")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip address 192.168.10.14 255.255.255.248")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip helper-address 192.168.10.1")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip helper-address 192.168.10.2")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip nat inside")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
```

```
##Configuration Interface Fe0/0.30

pyautogui.typewrite("Interface FastEthernet 0/0.30")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("encapsulation dot1Q 30")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip address 192.168.10.22 255.255.255.248")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip helper-address 192.168.10.1")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip helper-address 192.168.10.2")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip nat inside")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("exit")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)

##Routage
pyautogui.typewrite("ip routing")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip route 172.16.40.0 255.255.248.0 172.16.43.1")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
pyautogui.typewrite("ip route 0.0.0.0 0.0.0.0 192.168.1.2")
sleep(0.2)
pyautogui.press('enter')
sleep(0.2)
```

```
##Configuration NAT
```

```
pyautogui.typewrite("Interface FastEthernet 0/0")  
sleep(0.2)  
pyautogui.press('enter')  
sleep(0.2)  
pyautogui.typewrite("ip nat inside")  
sleep(0.2)  
pyautogui.press('enter')  
sleep(10)  
pyautogui.typewrite("exit")  
sleep(0.2)  
pyautogui.press('enter')  
sleep(0.2)  
pyautogui.typewrite("Interface FastEthernet 0/1")  
sleep(0.2)  
pyautogui.press('enter')  
sleep(0.2)  
pyautogui.typewrite("ip nat outside")  
sleep(0.2)  
pyautogui.press('enter')  
sleep(10)  
pyautogui.typewrite("exit")  
sleep(0.2)  
pyautogui.press('enter')  
sleep(0.2)
```

```
##Activation NAT
```

```
pyautogui.typewrite("access-list 1 permit 192.168.10.0 0.0.0.255")  
sleep(0.2)  
pyautogui.press('enter')  
sleep(0.2)  
pyautogui.typewrite("ip nat inside source list 1 interface FastEthernet 0/1  
overload")  
sleep(0.2)  
pyautogui.press('enter')  
sleep(0.2)
```

Script Bash Backup MySQL:

```
#!/bin/sh
cd /etc/backup && rm *.gz
now="$(date +%d_%m_%Y_%H_%M_%S)"
filename="db_backup_$now".gz
backupfolder="/etc/backup"
fullpathbackupfile="$backupfolder/$filename"
logfile="$backupfolder/backup_log_$(date +%Y_%m)".txt
echo "mysqldump started at $(date +%d-%m-%Y %H:%M:%S)" >> "$logfile"
mysqldump --user=root --password=root --default-character-set=utf8 --all-databases
| gzip > "$fullpathbackupfile"
echo "mysqldump finished at $(date +%d-%m-%Y %H:%M:%S)" >> "$logfile"
chown root "$fullpathbackupfile"
chown root "$logfile"
echo "file permission changed" >> "$logfile"
find "$backupfolder" --name db_backup_* --mtime +8 -exec rm {} \;
echo "old files deleted" >> "$logfile"
echo "operation finished at $(date +%d-%m-%Y %H:%M:%S)" >> "$logfile"
echo "*****" >> "$logfile"
smbclient //logan.local/Partage MOTDEPASSE -U Administrateur -p MOTDEPASSE -c
'prompt OFF; recurse ON; cd //logan.local/Partage; lcd /etc/backup/; mput *'
exit 0
```