

# PROJET 4 - UNIX EFREI

/01

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# EXERCICE 1

## verification\_scan.sh

```
1 #!/bin/bash
2 echo "Choisissez un scan parmi les suivant :
3     Scan simple : 1 ,
4     scan complet : 2 ,
5     scan personnalisé(singulier) : 3 .
6     scan personnalisé(plusieurs) : 4 " ;
7 read reponse
8
9 if [ "$reponse" -eq '1' ]; then
10     ip_all=nmap -Pn -A ;
11     nmap --port-ratio "$ip_all" ;
12     nmap -sp "$ip_all" ;
13 fi
14 if [ "$reponse" -eq '2' ]; then
15     nmap -p 1-65535 ;
16 fi
17 if [ "$reponse" -eq '3' ]; then
18     echo " veuillez donnez l'ip à analyser " ;
19     read ip ;
20     nmap -p "$ip" ;
21 fi
22 if [ "$reponse" -eq '4' ]; then
23     read -p "Entrez les adresses IP (séparées par des virgules) : " ips
24     IFS=',' read -r -a ip_array <<< "$ips"
25     for ip in "${ip_array[@]}; do
26         nmap -p "$ip"
27     done
28 ;;
29 *)
30     echo "Une erreur est survenue."
31 ;;
32 fi
33
```



# EXERCICE 2 - scan.sh

Code Blame Executable File · 47 lines (39 loc) · 899 Bytes Code 55% faster with GitHub Copilot

```
4     echo "usage: $0 <host> [--os-detection] [--service-detection]"
5     exit 1
6 fi
7
8 TARGET=$1
9 OS_DETECTION=false
10 SERVICE_DETECTION=false
11
12 for arg in "${@:2}"; do
13     case $arg in
14         --os-detection)
15             OS_DETECTION=true
16             shift
17             ;;
18         --service-detection)
19             SERVICE_DETECTION=true
20             shift
21             ;;
22     esac
23 done
24
25 function scan_services {
26     echo "[INFO] Scanning services on $TARGET"
27     nmap -Pn -sV "$TARGET"
28     echo "[INFO] Done"
29 }
30
31 function scan_os {
32     echo "[INFO] Scanning OS on $TARGET"
33     nmap -Pn -O "$TARGET"
34     echo "[INFO] Done"
35 }
36
37 if [ "$OS_DETECTION" = true ]; then
38     scan_os
39 fi
40
```



# EXERCICE 3 - multihost.sh

```
1  #!/bin/bash
2
3  if ! command -v nmap &> /dev/null; then
4      echo "Installez NMAP."
5      exit 1
6  fi
7
8  echo "=== Scanner plusieurs hôtes ==="
9  echo "1. Scanner un seul hôte"
10 echo "2. Scanner une plage d'IP"
11 echo "3. Scanner plusieurs hôtes spécifiques"
12 read -p "Choisissez une option (1-3) : " choix
13
14 case $choix in
15     1)
16         read -p "Entrez l'adresse IP hôte : " ip
17         nmap -v $ip
18         ;;
19     2)
20         read -p "Entrez la plage (range) d'IP : " range
21         nmap -v $range
22         ;;
23     3)
24         read -p "Entrez les adresses IP (séparées par des virgules) : " hosts
25         IFS=',' read -r -a host_array <<< "$hosts"
26         for host in "${host_array[@]}; do
27             nmap -v $host
28         done
29         ;;
30     *)
31         echo "Une erreur est survenue."
32         ;;
33 esac
```



# EXERCICE 4 - autoscan.sh

```
1  #!/bin/bash
2
3  if ! command -v nmap &> /dev/null; then
4      echo "Installez NMAP."
5      exit 1
6  fi
7
8  LOG_FILE="/tmp/rapport_scan_$(date +%Y%m%d%H%M).txt"
9  DEST_EMAIL="joao-gabriel.marques-dinis@efrei.net"
10
11  nmap -sS 192.168.1.1-10 > "$LOG_FILE"
12
13  mail -s "Rapport de Scan Nmap" "$DEST_EMAIL" < "$LOG_FILE"
```





The background is black with several abstract blue wireframe shapes. On the left is a large sphere with a grid pattern. At the top right is a cone-like shape with a grid pattern. At the bottom right is a rectangular prism with a grid pattern. All shapes have a blue-to-white gradient and a glowing effect.

**Merci !**