

دانشکده مهندسی کامپیوتر

آزمایشگاه سیستم عامل

تمرین جلسه نهم

استاد: دکتر شیخی

پوریا رحیمی (۹۹۵۲۱۲۸۹)

```
rahimi_99521289@99521289: ~
Selecting previously unselected package nmap-common.
Preparing to unpack .../nmap-common 7.91+dfsg1+really7.80+dfsg1-2ubuntu0.1 all.deb ...
Unpacking nmap-common (7.91+dfsg1+really7.80+dfsg1-2ubuntu0.1) ...
Selecting previously unselected package nmap.
Preparing to unpack .../nmap 7.91+dfsg1+really7.80+dfsg1-2ubuntu0.1 amd64.deb ...
Unpacking nmap (7.91+dfsg1+really7.80+dfsg1-2ubuntu0.1) ...
Setting up lua-lpeg:amd64 (1.0.2-1) ...
Setting up liblinear4:amd64 (2.3.0+dfsg-5) ...
Setting up nmap-common (7.91+dfsq1+really7.80+dfsq1-2ubuntu0.1) ...
Setting up nmap (7.91+dfsq1+really7.80+dfsq1-2ubuntu0.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-Oubuntu3.1) ...
rahimi 99521289@99521289:~$ nmap 8.8.8.8
Starting Nmap 7.80 ( https://nmap.org ) at 2023-05-23 20:54 +0330
Nmap scan report for dns.google (8.8.8.8)
Host is up (0.038s latency).
Not shown: 998 filtered ports
PORT
       STATE SERVICE
53/tcp open domain
443/tcp open https
Nmap done: 1 IP address (1 host up) scanned in 54.21 seconds
rahimi 99521289@99521289:~$ nmap 8.8.8.8 | awk 'NR > && NR < 8 { print $1 " " $3 }'
awk: line 1: syntax error at or near &&
rahimi 99521289@99521289:~$ nmap 8.8.8.8 | awk 'NR > 4 && NR < 8 { print $1 " " $3 }'
PORT SERVICE
53/tcp domain
443/tcp https
rahimi 99521289@99521289:~$
```

```
$ Q2.sh
       ×
$ Q2.sh
  1 #!bin/bash
  2
  3 state="Done"
    badstate="is unreachable"
    ping -c 12 $1
    if (( $? == 0 ))
     then
      echo $state
     else
 10
       echo $1 $badstate
 11
 12
 13
 14
```

```
rahimi_99521289@99521289: ~/Desktop/cloner/HW9
rahimi 99521289@99521289:~$ cd Desktop/
rahimi 99521289@99521289:~/Desktop$ cd cloner/
rahimi 99521289@99521289:~/Desktop/cloner$ cd HW9/
rahimi 99521289@99521289:~/Desktop/cloner/HW9$ bash Q2.sh 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp seg=1 ttl=128 time=37.6 ms
64 bytes from 8.8.8.8: icmp seq=2 ttl=128 time=36.6 ms
64 bytes from 8.8.8.8: icmp seq=3 ttl=128 time=33.9 ms
64 bytes from 8.8.8.8: icmp seq=4 ttl=128 time=34.3 ms
64 bytes from 8.8.8.8: icmp seq=5 ttl=128 time=34.8 ms
64 bytes from 8.8.8.8: icmp seq=6 ttl=128 time=35.2 ms
64 bytes from 8.8.8.8: icmp seq=7 ttl=128 time=36.8 ms
64 bytes from 8.8.8.8: icmp seg=8 ttl=128 time=39.2 ms
64 bytes from 8.8.8.8: icmp seg=9 ttl=128 time=34.8 ms
64 bytes from 8.8.8.8: icmp seq=10 ttl=128 time=35.3 ms
64 bytes from 8.8.8.8: icmp seq=11 ttl=128 time=36.9 ms
64 bytes from 8.8.8.8: icmp seq=12 ttl=128 time=34.8 ms
--- 8.8.8.8 ping statistics ---
12 packets transmitted, 12 received, 0% packet loss, time 11022ms
rtt min/avg/max/mdev = 33.912/35.837/39.174/1.493 ms
Done
rahimi 99521289@99521289:~/Desktop/cloner/HW9$
```

```
rahimi_99521289@99521289: ~/Desktop/cloner/HW9
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rahimi_99521289@99521289:~/Desktop/cloner/HW9$ bash Q2.sh 8.5.8.5
PING 8.5.8.5 (8.5.8.5) 56(84) bytes of data.
--- 8.5.8.5 ping statistics ---
12 packets transmitted, 0 received, 100% packet loss, time 11269ms
8.5.8.5 is unreachable
rahimi_99521289@99521289:~/Desktop/cloner/HW9$
```

```
Q =
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                              rahimi_99521289@99521289: ~
rahimi_99521289@99521289:~$ arp | awk 'NF > 3 { print $3 " " $NF}'
HWaddress Iface
00:50:56:fc:1c:08 ens33
00:50:56:e2:18:80 ens33
rahimi_99521289@99521289:~$ arp
Address
                        HWtype HWaddress Flags Mask ether 00:50:56:fc:1c:08 C
                                                                          Iface
192.168.88.254
                                                                          ens33
gateway
                        ether 00:50:56:e2:18:80
                                                                          ens33
_gateway ethe
| rahimi_99521289@99521289:~
```