By: Rifki Aulia Irawan - 05111840000142

Praktikum 2

- Buat Alpine 4 dan 5
- Setup pada alpine-4 dan 5 dengan cara
 - o Pada alpine-4:
 - ifconfig eth0 192.168.122.97 netmask 255.255.255.0 up
 - route add default gw 192.168.122.1
 - echo "nameserver 192.168.122.1" > /etc/resolv.conf
 - o Pada alpine-5:
 - ifconfig eth0 192.168.122.113 netmask 255.255.255.0 up
 - route add default gw 192.168.122.1
 - echo "nameserver 192.168.122.1" > /etc/resolv.conf
- Hasil code pada broadcast serverudp.py

Hasil code pada broadcast_clientudp.py

- Kasus 1 client di run terlebih dahulu
- Hasil pada alpine-1 sebagai client

```
×
 < nsole
                     alpine-1
                                            alpine-2
alpine-1 console is now available... Press RETURN to get started.
udhcpc (v1.24.2) started
Sending discover...
Sending discover...
Sending discover...
Sending discover...
Sending discover...
udhcpc failed to get a DHCP lease
No lease, forking to background
/ # python3 broadcast_clientudp.py
BROADCAST - Showing Number - 1
BROADCAST - Showing Number - 2
 BROADCAST - Showing Number -
BROADCAST - Showing Number - 4
BROADCAST - Showing Number - 5
BROADCAST - Showing Number -
BROADCAST - Showing Number - 7
 BROADCAST - Showing Number -
 BROADCAST - Showing Number - 9
 BROADCAST - Showing Number - 10
BROADCAST - Showing Number - 11
 BROADCAST - Showing Number - 12
 BROADCAST - Showing Number - 13
```

```
< nsole
                                           alpine-2
                                                                   >
                                                                                    X
                    alpine-1
                                                     ×
Sending discover...
udhcpc failed to get a DHCP lease
No lease, forking to background
ok
/ # python3 broadcast_serverudp.py
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 8 '
Sent By: ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 9 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 10 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 11 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 12 '
Sent By: ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 13 '
Sent By: ('192.168.122.237', 44305)
('192.168.122.237', 44305)
```

Hasil pada alpine-3 sebagai server

```
×
 < ⊦1
         ×
                       alpine-2
                                 X
                                               alpine-3
                                                         X
etc
                          opt
                                                      sys
ıns3
                                                      tmp
ms3volumes
                          root
                                                      usr
                          run
                                                      var
 # python3 broadcast_serverudp.py
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 14 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 15 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 16 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 17 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 18 '
Bent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 19 '
Sent By : ('192.168.122.237', 44305)
192.168.122.237', 44305)
```

```
alpine-4
                          alpine-3
                                                                    ×
 packets transmitted, 1 packets received, 0% packet loss cound-trip min/avg/max = 40.857/40.857/40.857 ms
  # nano broadcast serverudp.py
  # python3 broadcast_serverudp.py
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 21 '
Sent By: ('192.168.122.237', 44305)
('192.168.122.237', 44305)

Recieved b' BROADCAST - Showing Number - 22 '
Sent By: ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 23 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)

Recieved b' BROADCAST - Showing Number - 24 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)

Recieved b' BROADCAST - Showing Number - 25 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)

Recieved b' BROADCAST - Showing Number - 26 '
Sent By : ('192.168.122.237', 44305)
 (192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 27'
```

- Hasil pada alpine-5 sebagai server

```
< alpine-3
                                                     alpine-5
                            alpine-4
                                                               ×
alpine-5 console is now available... Press RETURN to get started.
 # ifconfig eth0 192.168.122.113 netmask 255.255.255.0 up
 # route add default gw 192.168.122.1
 # echo "nameserver 192.168.122.1" > /etc/resolv.conf
 # nano broadcast_serverudp.py
 # python3 broadcast serverudp.py
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 29 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 30 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 31 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 32 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 33 '
Sent By : ('192.168.122.237', 44305)
('192.168.122.237', 44305)
Recieved b' BROADCAST - Showing Number - 34 '
```

- Kasus 2 Server di run terlebih dahulu
- Hasil pada alpine-1 sebagai client

```
X
< ∋le
                  alpine-1
                                          alpine-2
                                                                   alp >
# python3 broadcast_clientudp.py
BROADCAST - Showing Number -
BROADCAST - Showing Number -
BROADCAST - Showing Number - 3
BROADCAST - Showing Number - 4
BROADCAST - Showing Number - 5
BROADCAST - Showing Number - 6
BROADCAST - Showing Number - 7
BROADCAST - Showing Number - 8
BROADCAST - Showing Number - 9
BROADCAST - Showing Number - 10
BROADCAST - Showing Number - 11
BROADCAST - Showing Number - 12
BROADCAST - Showing Number - 13
BROADCAST - Showing Number - 14
BROADCAST - Showing Number - 15
BROADCAST - Showing Number - 16
BROADCAST - Showing Number - 17
BROADCAST - Showing Number - 18
BROADCAST - Showing Number - 19
BROADCAST - Showing Number - 20
BROADCAST - Showing Number - 21
```

- Hasil pada alpine-2 sebagai server

```
< ole
                           alpine-1
                                                               alpine-2
                                                                              ×
                                                                                                   alp >
 ZTraceback (most recent call last):
  File "broadcast_serverudp.py", line 13, in <module>
  data, addr = sck.recvfrom(1024)
 SeyboardInterrupt
   # python3 broadcast_serverudp.py
('192.168.122.237', 38736)

Recieved b' BROADCAST - Showing Number - 1 '
Sent By : ('192.168.122.237', 38736)
('192.168.122.237', 38736)
Recieved b' BROADCAST - Showing Number - 2 '
Sent By : ('192.168.122.237', 38736)
('192.168.122.237', 38736)
Recieved b' BROADCAST - Showing Number - 3 '
Sent By : ('192.168.122.237', 38736)
('192.168.122.237', 38736)
 Recieved b' BROADCAST - Showing Number - 4 '
Sent By: ('192.168.122.237', 38736)
('192.168.122.237', 38736)
Recieved b' BROADCAST - Showing Number - 5 '
Recieved b' BROADCAST - Snowling Number - 5 '

Sent By : ('192.168.122.237', 38736)

('192.168.122.237', 38736)

Recieved b' BROADCAST - Showling Number - 6 '

Sent By : ('192.168.122.237', 38736)
```

Hasil pada alpine-4 sebagai server