

Lab 3 - Session 1

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What are we going to do today?

Test time

Lab 3

Self-assessment

Material

The World's Key

Test time

ENGINEERING



**DOES 99%
OF THE WORK**

**HAS NO
IDEA WHAT'S
GOING ON THE
WHOLE TIME**

**SAYS HE'S
GOING TO
HELP BUT
HE'S NOT**

**DISAPPEAR
AT THE VERY
BEGINNING AND
DOESN'T SHOW
UP AGAIN TILL
THE VERY END**

REQUIRES A LOT OF TEAMWORK

Lab 3

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- “L3.5”: ICMP
 - Ping functionality (Echo req & rep)

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 - With Options
- “L3.5”: ICMP
 - Ping functionality (Echo req & rep)
- L4: UDP

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- Routing

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But what do we mean by routing and forwarding?

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```
$ ip route
```

```
default via 150.244.56.1 dev eth0 proto static  
150.244.56.0/22 dev eth0 proto kernel  
    scope link src 150.244.59.231  
192.17.0.0/16 dev docker0 proto kernel  
    scope link src 192.17.0.1 linkdown  
192.18.0.0/16 dev br-992d119f2470 proto kernel  
    scope link src 192.18.0.1
```


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Which destination MAC address?

- Well, do you remember a protocol to translate IP addresses to MAC addresses? :)

Self-assessment

What you should have done by today

- Read the assignment.
- Understand what you are being asked for.
- Read carefully the assesing criteria.

What you should have done by next week?

- Download the material. Do not forget to add your `arp.py` and `ethernet.py`.
- Read code for IP, ICMP, and UDP.
 - Identify functions that are yet to be implemented.
 - How functions call each other?
- Questions about routing and forwarding.
- Questions about the assignment.

Material

Where are these slides?

`dperdices.github.io/redes1-1391-2022/`
`github.com/dperdices/redes1-1391-2022`

- Source code of this slides (in markdown)
- Slides in PDF
- Other resources

If you want a completed version or find any mistakes,

- Fork the repo
- Complete it / Fix it yourself
- Make a PR
- Wait for my approval (or comments)

The World's Key
