

Plan

* Recitation Qs

* Recap: Layers

* FDE Overliew

* Breakout rooms

pros 6 cons

* Name that layers

Logistics

* Mid term April 6 &

* No recitation

* New hands-on - April 2

* Teel Seedback on DAPA

April 9

* Voluntous for nort nech

What is the end-to-end argument?

L. Don't implement intensiting " Suretionalty at low Lyans.

How is EDE used in practice?

Lo e.g. Voice packets & reliable transfer

3 Do you agree u) EDE ang? Why?

La Simplisty & Sicioncy. Used it contion.

Layering (Recap) One way to think about EDE argument... - HTTP, SSH, FTP, SMTP The liberturian view Application of computer systems." - TCP/UDP Transport Is let the app handle it -IP Network La Full Freedom Sor - Etherat, unsi, ... Link the application - Copper wie, Siber, ---* more flexibility Physical * More wish * less efficient * (get it wony >" Dumb network"

Robert file transfer study: Case Server Client 1 Drapbox, Dropbox Macos MACOS App Transport Methor Unh

-UNIX - minimal abstractions (file system)

- RISC versus CISC

SARM

RSG-64

Assembly

Assembly

So instructors

Assembly

Benesits of Ear

Draubacks

+ If gain to implement Sunctionality,
has to be compatible/harmonized
with layer above

+ Melularity - abstrution

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What is the EDE argument?

Les Functionality should be at highest (evels of the stack.)

Are stack.

Network does not reed / want (cost)

do enough

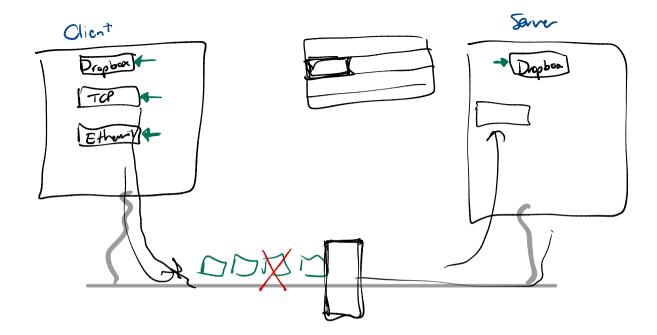
Layers Application - Web HTTP /SMTP/FTP (. - TCP/UDP Transport Network Link - Ethernit, ws.;... Physical - Coppor wir, Siber, -...

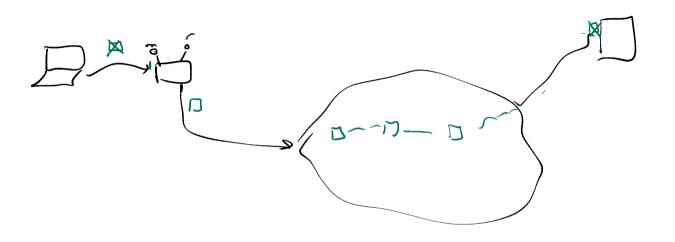
How is EDE argument used in practice?

Li Open 05"

- Reliable transport in gateway / retroch

- Checkson





3. Do you agree with EZE argument?

- Some benefits to having functionality of bour levely

- In Network Sanctionality can be my useful

"Dumb notune" "Small endpoint"

Benefits of Sn at highest/app layor

+ less redundancy

+ No extra cost /wheessary

+ Modularly + Simplicity & implementation

+ Pegnm

+ Flexibility

Draw backs

- Failure localization harder

- Wost

- Each app has to reinvent the wheel

- Relies on clear ost/assuption

- Lose apportunits for got mization Lacking 98% 66 Poll: Which layer?

- Encryption

- Denial - of -service prevention