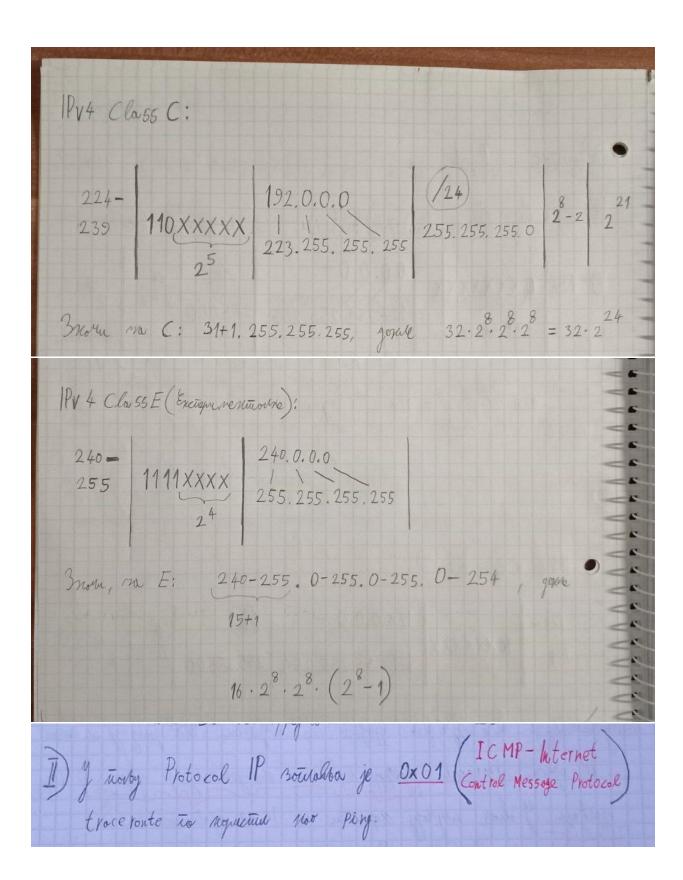
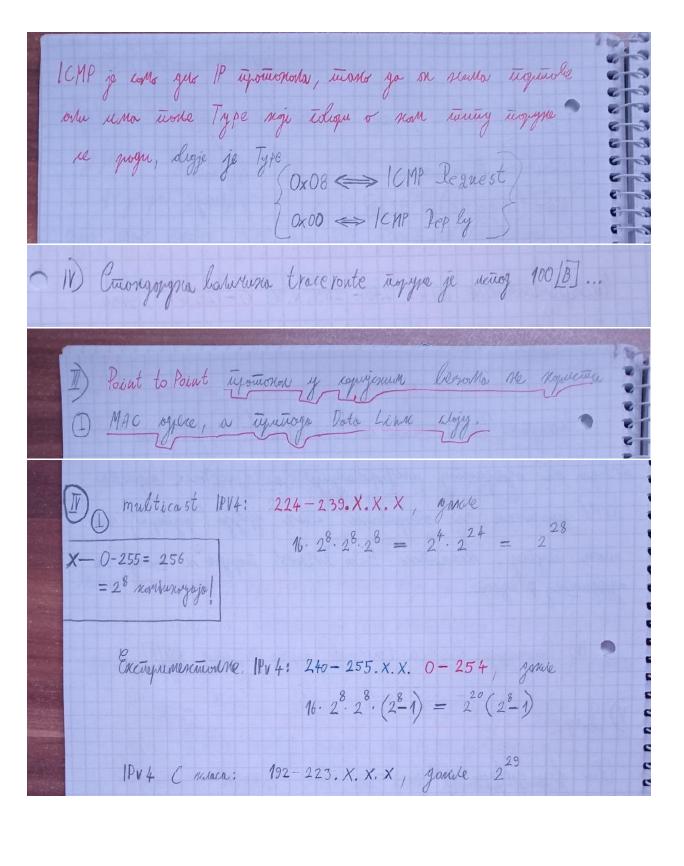
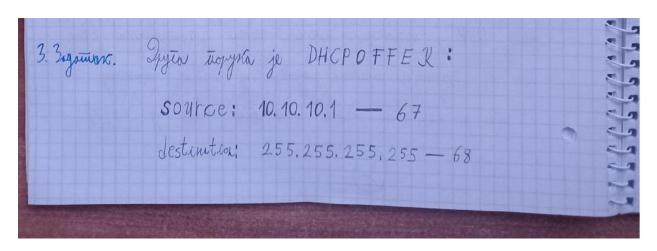
IPV4 Class A: 0-127 0.XXXXXXX 0.0.0.0- /8 24 2-2 27 27 nomburungije 127.255.255.255 255.0.0.0 2-2 27 D 3nortu na A: 0-127=128 yrujano, 3. (0-255=256 yrujano), genuse 128.28.28,28 = 128.224 mpero) IPV4 Cluss B: 128-191 10XXXXXXX 128.0.0.0 - (16) 16 2-2 2 14 Brown no B: 128-191=63+1=64.0-255=256 gregario.0-255.0-255 inj. 64.255.255.255, grade 64.28.28.28 = 64.224



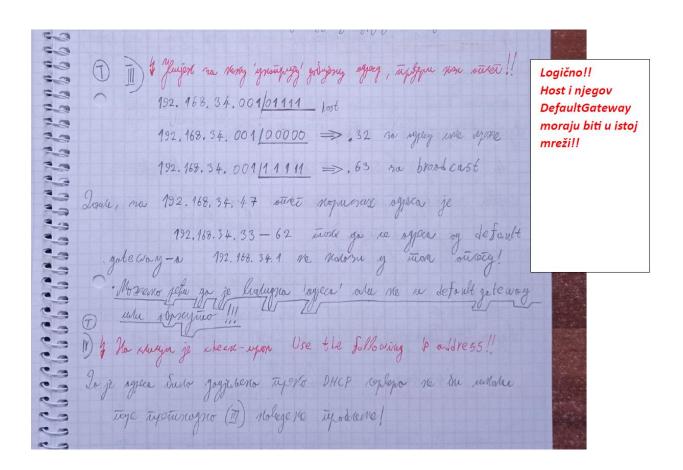




Vezano za treći zadatak, klasična Client-DHCP-server komunikacija..

Proces komunikacije između DHCP klijenta i servera:

- 1. Klijent šalje DHCPDISCOVER (Broadcast):
 - Klijent ne zna adresu servera, pa šalje broadcast poruku preko porta 68 ka portu 67 (server).
- 2. Server odgovara DHCPOFFER:
 - o DHCP server šalje ponudu klijentu na njegov port 68 koristeći svoj port 67.
- 3. Klijent šalje DHCPREQUEST:
 - o Klijent prihvata ponudu i šalje zahtev (opet sa porta 68 ka portu 67).
- 4. Server šalje DHCPACK:
 - o DHCP server potvrđuje dodelu IP adrese, ponovo koristeći portove 67 i 68.



y ARP cache-y pyroga NewYork by Summer 0060. 7320. D632 y ALP cache-y viewy popular re surgens restarse urgular IP-MAC Mathus urang spojes !!! 10. 1. 1.2 - (0060.7320. D631, Fa 0/0 Yaqaa re pirg an Now York yarring to 41 unay ofge 10.21.1.2 - 0040.8517.4464 Cognition ALP Tropyre: 10.21.1.2 0040. 8517. 44C4 dy namich Sender Hardware Address: 00 60 73 20 d6 32 - made MAC ADR. Sender Protocol Address: On 15 91 01 -> Newler IP ADR. larget Hardaure Address: 00 00 00 00 - so ma jam glugere det MACAL larget Protocol Address: On 15 01 02 -> dest IP agreen

Portypionen Maste 17.06.2021	213
1.3 maioro. I) L2 (Data Lour) - laruruna ppyrra, cognicia y	0 0
Ethernot rotalolog, worke Length/Type:	6 3
Ox 08 00 > 06 00 muo Bran go je Mrujuon Ajejma Grinatiyinyan 1884 tarxetil	20000
L3(Net worm) - haluruna wanema coynstama y winy Parenet Length u Gujegnociu je 0x 00 30 ←> 48 [5].	6 3
Tooke Protocol je Ox 11 \Leftrightarrow 17, yana UPP mjourning je senarymon.	6 3
L4 (Transport) - halumuna dotogram-a ne malaru y negby	C 5
UDP Leigth 0x 001c \$\impres 28[B]	2 3

Ethernet okvir (L2):

Sastoji se od: MAC adresa (Source/Destination).

Length/Type polje: Ovdje se koristi 0x0800, što ukazuje na IPv4.

IPv4 paket (L3):

Sadrži:

IP adrese (Source/Destination).

Dužinu paketa: Ovo je ključno polje koje određuje veličinu cijelog paketa.

Protokol: Vrijednost 0x11 označava UDP.

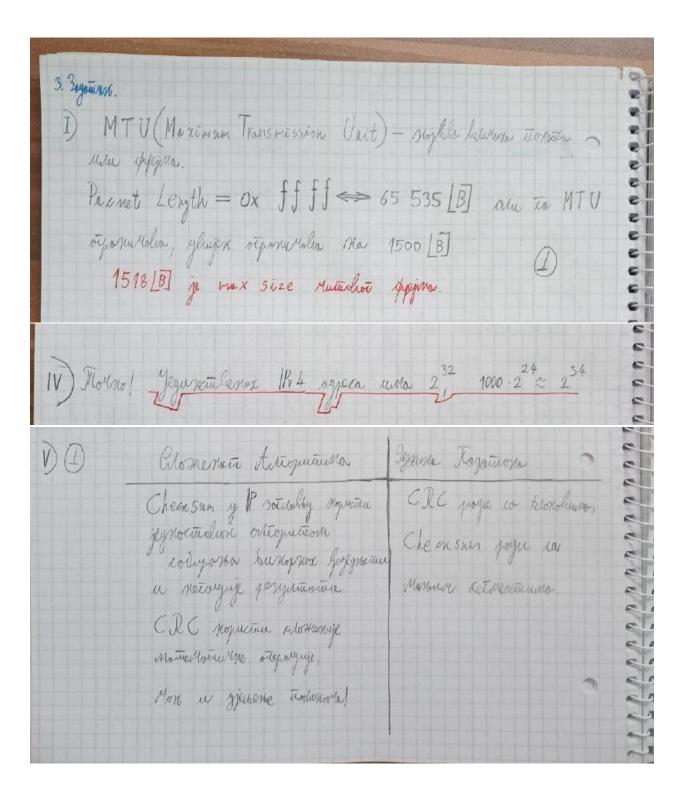
UDP segment (L4):

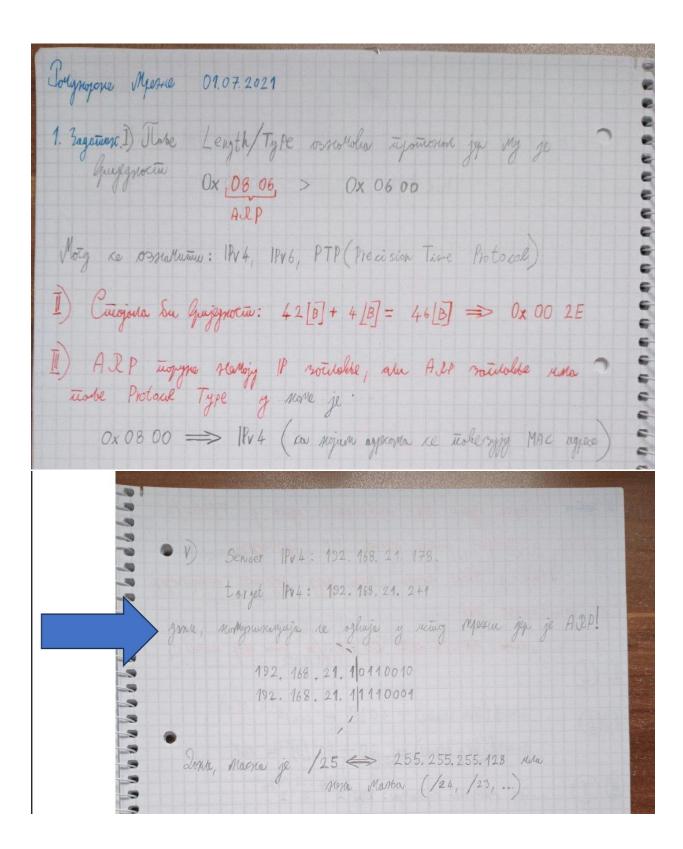
Portove (Source/Destination). Dužinu UDP segmenta: Obuhvata i podatke i zaglavlje.

Hint:

da je umjesto IPv4 bio IPv6 paket, određena polja IPv6 paketa jesu ekvivalentna poljima IPv6 paketa što znači da se može poistovjetiti sa rješenjem zadatka!

IV) 0x11 ⇔ 17, gorne UDP upomonon... Source: 192. 168. 0, 253 - 50 618 (Jynamic) destination: 192.168.0.10 - 69 (TFTP - Trivial File Tronsfer Protozol) Maria 255, 255, 255, 128 € /25 $2^{7}-2=126$ rotuolio, gonde, ne uputagojy uctuoj vyestu! VI) Cho je TFTP wonyna nojom re nem poje morbe yyorkerrone lost-y... VII) $\frac{20}{66} = 30.3 [\%]$ Ether IP UDP data $18|\overline{B}| + 20|\overline{B}| + 8|\overline{B}| + 20|\overline{B}|$





2 Beginson. Cymopho ogoco 1816 multicast ogoca je FF00::/8,

jep je 8 nojegnux buina nonot FF Tyringija

flag y 5 kope buina noju gojg gogainne vretogunogoje

o multicost 1846

(ramo FF::/8 \$\implies 00 FF::/8 wino nije morno) \\ \frac{1}{2}

T) Ycirocinalheena je jepra TCP bersa uznefy PCO u 24,

jep TCP je witypon upomona u mino ne upoje

uponova uogainona uplao yenocinalna lebra uomohy

3-Way-handshane-a ita se orga madoy uogarja.

Telnet nopucina TCP.

Sumare:

A 0 0.0.00/1

B 10 128.0.0.0/2

C 110 192.0.0.0/3

D 1110 224 -0.0.0/4

E 1111 240.0.00/4

· Longrapes Masse 00.09. 2021 1. Zagamoro Tyles, switch ownor y MAC winhale varies va PC1! Marien je emitao Ala Switch no Scittel como orangunar eliony wursely: 4 12-34-56-78-9A-BC Bounn, switch telego toje mo on mjeta go upotrujegu namen, lugu y chojoj mobale go reme ingruorla o PC3 ya seetteh rago monein gase morte no the chinge requirable ocum no Port 4 (ja je no mot regimo u inpursus mercia...). Municia je jande raga invitaro ma yjetoje PC2, PC3 u PC4. · Hoga PC3 Syse ogiologoo, switch the y MAC masary gogation rotus in a seemy: 2 12-34-56-78-9A-BE or rowner y MAC wasaw scatu destination MAC som je MAC ogseca PC1 u ujorujeguan organ no soit 4 3. Begannes. D (1) Exceptioneservoire orgere nothing as bungan unleryour 1 (1) Moneumana henertuna IP nousello je 60[8]!

. 6. Bogamax. I) City 2 (Pata Lim Layer) Troube Length/Type by method of egina 0x 08 00 > 0x 06 00 ujegeniolisa Genig enponegruportor aponororo (usurano), y Thursby je 1Pv4 tranem Cuoj 3 (Networm) je IP waren, worke Parmet Length raymon 0x00 30 \$\impressed 48[B] Ny troday Plotocol je 0x11 > 17 gande invotaglapon je Cloj 4 (Transport) y wordy UDP Length je cognisiona haluruna datagrom-a: 0x001c ←> 28[8] W) Ve requerte vetre port-obe! 9 DHCPv4 requerion port 67 na DHCP regular, or port 68 na saujentra!! DHCPV6 noquentes port 546 na salujereno, a Port 547 ra replen!