appareningo: Brezzos Universitàs | Oropia PC: LAPTOP-RLR 92 PLC Huspopenvia: 21/03/2023 S: soliano Egravengrania Avenurs 4 Evanyi ozy Spopodojnen Acruson 1 11) H Sizidovor IP zivai o 32 abita apidros por anodifezar de pua Siznaugis pu zur ananapouran avris oro frasipiro, Evis apidros Sinzia cirai zo reporto pieros sus sisiónem IP so orois gorponemo, Jer so sinsus non epienesa, n 1.2 192.220,144.0/22 1.31 To unofinavo para exe xupuzuozura 100 ovovenir xpaisecar subuet mask pe 7 bits Elender, Enopeius perais 3 bits no ca uno si uca, 23=8 2> Bunofinzua. 1.41 H udoiers C 1.51 0, 6, duan e sivar iscurers. 1.6/ Av a Sienderon annue ora zapina una Sinzua. 1.71 H 10,50.11.255 1.8 Hulaury C 1.9 DIENDEVOES E.H.D.: 147. ~> Klowy B. 1.10/ 2 = 2 = 000000000 = 2's - 2 = 32766 Sindinges Siendweg pa ouveres 1.11 a) [0.11.12.0/25 } [0.11.12.0-10.11.12.127, 100 ovorwes } 8) 10.11.12.128/26 { W.11.12.128-10.11.12.19\$, 60 overes }

1) 10.11.12.192/27 (10.11.12.192-10.11.12.223, 20 ovorierés § s) 10.11.12.224/28 (10.11.12.224.- 10.11.12.240, 10 overleves} LIE Na proper va unaipre pe xupuzuo zuza pa 15 uno Esperes 1.13 171.12.0.0

Franky 2
L'I Na Erape en dése ou supropping siaupoportuin siendurosen MAC par mais maxampia maza en suprouppia con
221 PCI -> PCZ: A MARCOPYCI PCI -> PCZ: METOPYCI PCI -> PCZ: DEN MARCOPYCI
23) PCZ => PCz : no route to host  PCZ => PCL: NO route to host
PC4 ~> PC1: no route to host.  PC4 ~> PC2: no route to host  PC4 ~> PC3: Marangrei
2.51 PC3 -> pc1 : Nazouppei PC3 -> pc2 : DEN Nazouppei
26/ Trazi u fraideron fer ennuer ors une fruens oro ensis Ppronopoure
27) Jazi en mai « Eisiduvon napadinen anime ora ista una sinza por
28 1 fanty end met 192.168.1.x/24
2.9) To plug and was to PC1 npos to PC3 was and to PC3 npos to PC1
2.10) Euroni lour ors aroward no Poute to host"

## Aurunos 3/

- 31) And za settings zou Virtual Box -> Network was and LAN1 Ende Sape LAN2 oran Endops name.
- 32) Naparupaire nomera ICMP, topdung i em 4
- 3.3) Operus nerpazupai pe naueza 1CMP, topolium i em 1 4
- 34 Ox, Ser magexy virner, no route to hest.
- 3.5) Opioins mai Esti Ser mazon paigeze minnen no voute to host.
- 3.6/ Diozi za PCI vai PC3 8Ex avintaux oro ino unasintuo, overnis pa va Enizerx dei enivariavia xpena Jezai Spopa deprinis nou va npaudei za navieza, o onoios ser exe suprappudai.
- 3.7) To PCI von nivoura ARP con Exer nouporposés ma co R1 mar 20 PCI (arp-a)
- 3.81 Augospopies na zo PCZ (arp-a)
- 3,91 To R1 représeu adoposagies nou to PCI, to PC3 mai to R1
- 3.12] arp-da ~> 0, totappages na ce sinès ou siendinces ser
- 3.12 Pepieres eppendes par ea PCI van PC2 now pools vouvage pluy
  hading lan 218 8,1 vies zon 8, en divores us onoies 215 Franques and 20
  rompoupero epinama.
- 3.77 topolump -i em ourp or 10mp.
- 3.13) Ty fiscouron can PCI was zu fiscouron zon R1 ora LANT. Nope zon arp request a PCI spoule zu fiscouron zon router.
- 3.14 topelung i en 1 arp or 1 cup. O nivanas arp zou R1 Exx ndegr

Effaires pa odes ar occueres ens ansentro do pour pas
3.15] PC1 2> 192.168.1.1 - 08:00:21:40:90:60
PCZ ~> 192.168.1.2 - 08:00:27:25:38:45
PC3 ~> 192.168. 1.18 - 08:00:27:7d:ea:df
PC4~> 192.168.1.29 - 08:00:27:e5:cd:c7
R1(LANI) ~> 192.168.1.14 - 08:00:27:06: fc:18
R1 (LANZ) ~ 192.168.1.17 - 08:00:27:66:28:02.
1 (2.100, 1.17 = 08.00.24:58.29.02.
3.16 Paparovaen mono nomeza ARP reguest na va Bredei ou unaignes
oroneus pe zur 17 192.168.1.5
3.171 Der unapper empargi son ommagneon orvenparos nowing Fer unipse
ARP reply.
3.18! Agoi encedérance 20 reporte ping pupis ensuria abelacque con rivaira arp per 20 2º ping per 20 6 nanéza daibaper 20 puningua Host 15 down"
pre 20 2= prug pre 201 6 nameza Laibagre za pringra "Host is down"

Armery 4
4.1) syscel net met. 19. forwarding = 1.
4.2) Aporterou oro apxeio letel re. conf to exis: gatewar_enoble = "YES"
4.31 Ox, n Esosos eira, no route to lost.
44 Nai uroigxei
4.5) route oudd default 192.168.1.14.
4.61 Mourisme to Selante gatenar.
6.7/ Mily Ser auconompivezar. Der Example Esoso "no route to host"
18/ Napajorza 1 (MP requests zooo ozo LANI ovo nei ozo LANZ, alla oxi ICMP replies.
4.91 route add default 192.168.1.17.
29 ICMP replies.
4.11/2 6 imaza, 1: 0 Router, 2: 00 PC3.
4.12 ong -da.
4.13) topdung -i emo -vVV - e topdung -i em1 -VVV - e
4.14/ piny -c 1 192.168.1.18
9.18) MAC STC: 08:00:27: a6:fc:1f (R1 em0)
MAC dst: 08:00:21:40:98:60 (PCI)
1Pv4 src: 192.168.1.1 (PC1)
1Puh dst: 192.168.1.18 (pc3)

4.16 MAC STC: 08:00:27:1d:ea:df. (PC3) MAC dse: 08:00:27:66:20:02 (R, eml) 1Pv4 src: 192.168.1.1 (PC1) 1AV4 dst: 192.168.1.18 (PCZ) 4.17) Again IP Ser aving oro zonnio Sinero, enerouvezar orov default gateur. nou civa i un Eudouos va spei ou MAC reospiopioù Statupoivous eur IP gra va pur xouri zo nomezo 4.18/ 55h 192.168.1.18 -1 lab ~ Der propie va ouseder us xpieres rock) 4.19) netstak - om lyrep ty. Protocof: ty Local Port: 36283 Remote Port: 22 4.20) netstage - p top ~> Der epiponites einorg. ORI ler exa noorBoury ve aura la Sesopia

Averon 5 5.11 route and default 192.168.7.19 5.21 oup -da 5.31 today -i end icup or orp. 54 tephong -i en 1 comp or exp 5.51 ping -ce 1 192.168.1.x { x=2, 18,29} Ta ping sival olg Enlaxi 5.6 PC1: PC1, PC2, R1 PCZ: PCI, PCZ PC3: PC3 R1 PCh: PCh, RI RI: R1, PC3, PC4 5.7 PC1 ~R, are request R, ~> PC1: ourp reply R, ~> PC4 : Drp request PCh ~> R1: axp reply PC1 ~> R1: 1 cmp requese R1 ~> pc4: 1cmp request

## WELLIAR BROKERS, EQUADED TO THE BOTH OF THE

PC4 ~> R1: 1 cmg reply

R1 -> PC1: 1 cup reply.

58) tepdung-i em -e arp or 1 cmp ~ PC3, PC4. tepdung-i em 1 -e arp or 1 cmp ~ R,

5.9 Nai, near Enjoyees, Egrane per Eng Bupag

5.W PC3 -> PC3, R1 PC4 ~> PC3, PC4, R1 RI ~> PC3, PC4, RI 5.11 pc3 ~> R1: arp request RI ~> PC3: are reply PC3 ~> R1: 1cmp request R1~> pch: arp request PC4 ~> RI: are reply R1 -> PC3: 1 cup redirect PC3 ~ PC4: 1 cup request PCy ~> PC3: arp request PC3 -> PC4: arp reply PCH ~> PC3: 1 cmp reply 5.12 To PC3 avadra zur MAC zou R1 war zo PC4 avatura zur MAC Zou PC3 5.13) Prazi Ser avincour ozoifro unafinaro 5.14 To wave redirect or PC4 5.15 Ansideras, pari 20 PC3 avinues oro uno finzuo em PCy. 5.16] topdung - i end - e roug ~ PC3, PC4 topdung - i end - e roug ~ R1 5.17 To PC3 orshes ICMP pources oro PCh preu zou RI var o PCh anaveg hazendrian oro PC3 pe 1CMP reply 5.18/ Navera u default getenar. 5.19 weestat - 74 ~> 192.168.1 16/28 192./68./ 18

5.20/ Notion za nouvera ICMP requests nouve nacentrian or PC4 Ser xperiatera

ra vive u Spopalojnen eous pière zou R. (tepdung-i en 0 1 cmp) (en 1 paro R)
5.21 Exagre mai eur empougis zon PO4.
5.22/ Dx, navis ndéar ser exes defante gatemar over niverne spopulations
5.23/ route add default 192.168.1.17, Da en. Lex dei n 192.168.1.17.
·

The second second

## Aosuron 6 6.1 I stoupy bridge 1 create 1 from hig bridge 1 odden end adden enot Heonty and up, Hearty out up. 6.21 1 From hy emos create 1 Fronty en 0.5 met 192.168.5.1/24 up thousing emols create thousing end.6 mez 192.168.6.1/24. W 6.3 1 fearty end.5 create Hearty Aud.5 met 192.168.5.2/24 up 1 ston by em 0.6 create. 1 ston by em 0.6 192.168.6.18/24 up. 6.5) If could em 0.5 create 1 from Pry amo. 5 192-168.5, 29/24 up 6.6/ 1 from Ly Cu 0.5 creace Thoughy Em 0.6 create Theorpy euls create I fearly eul. 6 exeate. (7 Ox, SE propri 6.8) Ox, SEU progii. 6.91 sazi brivingueure or hayopirmis LAN nai raucòxpora exam nai Layopernais de fault gatemas. 6 101 Nas propis 6.11 Na. Mapi

6.121 Ox, Ser jumpi 613) Syscel. net. Inet. 1p. Lornarding = 1 Youte change default 192.168.1.1 6.14 Nai Enizoparavo 6.15) PC1 -> 08:00:27:40:9e:60. PC2 ~> 08:00:27:25:38:45 PC3 308:00:27:1d:ea:df arp-ela. 6.16 top slump -e -VVV 6.17/ PC1 -> PC3: are reply PC3>PC1: long request PCI -> PCZ: are requese PCZ -> PC1: Are reply PC1 -> PC2: 1 cmp regues + PC2 -> pc1: cup reply PCI ->PC3: 1cmp reply PC3 -> PC1: arp request 6.18) Dx, SEN EINAI ENIWXES 6.19) Eur mazazpaneja evzoni Joupe I curp echo replr, moriocro, co nompoi-pero piny ser enizyxineza, orpoi o PC3 exe default gaternar es PC1 epir zo PC4 exe zon R1.

6.20) Nou, zwpa EnizyxaYEZai.