|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Hop | Device | Local | Network/Organization | Techs & Protocols | OSI Layer |
| 0 | My Computer  (192.168.1.131) | Ovar | AS12353 Vodafone Portugal - Communicacoes Pessoais S.A. | HTTP, SOAP, DHCP, DNS | 7 - Application |
| TLS, SSL | 6 - Presentation |
| RTCP | 5 – Session |
| TCP | 4 – Transport |
| IP | 3 – Network |
| Wi-Fi IEEE802.11x | 2 – Data Link |
| Free-Space radio | 1 - Physical |
|  | | | | | |
| 1 | My local network router (192.168.1.1) | Ovar | AS12353 Vodafone Portugal - Communicacoes Pessoais S.A. | IP | 3 - Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  | | | | | |
| 2 | Router (77.54.64.2) | Lisbon | AS12353 Vodafone Portugal - Communicacoes Pessoais S.A. | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  | | | | | |
| 3 | Router (213.30.41.113) | Oporto | AS12353 Vodafone Portugal - Communicacoes Pessoais S.A. | IP, RIP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
| CHANGED NETWORK | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Hop | Device | Local | Network/Organization | Techs & Protocols | OSI Layer |
| 4 | Router (195.10.48.9) | Lisbon | AS1273 Vodafone Group PLC | IP, RIP | 3 - Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
|  | | | | | |
| 5 | Router (195.2.21.150) | Paris | AS1273 Vodafone Group PLC | IP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
|  | | | | | |
| 6 | Router (195.2.9.30) | Ashburn | AS1273 Vodafone Group PLC | IP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
|  | | | | | |
| 7 | Router (195.2.14.42) | Ashburn | AS1273 Vodafone Group PLC | IP, RIP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
| CHANGED NETWORK | | | | | |
| 8 | Router (66.109.5.116) | Englewood | AS7843 Charter Communications Inc | IP, RIP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  | | | | | |
| 9 | Router (66.109.6.151) | Denver | AS7843 Charter Communications Inc | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  | | | | | |
| 10 | Router (66.109.6.36) | Houston | AS7843 Charter Communications Inc | IP | 3 - Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  | | | | | |
| Hop | Device | Local | Network/Organization | Techs & Protocols | OSI Layer |
| 11 | Router (107.14.19.49) | Englewood | AS7843 Charter Communications Inc | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  |  |  |  |  |  |
| 12 | Router (66.109.6.0) | Tustin | AS7843 Charter Communications Inc | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  |  |  |  |  |  |
| 13 | Router (66.109.3.233) | Los Angeles | AS7843 Charter Communications Inc | IP, RIP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
| CHANGED NETWORK | | | | | |
| 14 | Router (72.129.25.3) | Los Angeles | AS20001 Charter Communications Inc | IP, RIP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  |  |  |  |  |  |
| 15 | Router (72.129.27.131) | Los Angeles | AS20001 Charter Communications Inc | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  | | | | | |
| 16 | Router (76.167.30.206) | Los Angeles | AS20001 Charter Communications Inc | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  |  |  |  |  |  |
| 17 | Router (104.172.186.0) | Calabasas | AS20001 Charter Communications Inc | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
| REQUEST TIMED OUT… | | | | | |
| Hop | Device | Local | Network/Organization | Techs & Protocols | OSI Layer |
| \* | Apache HTTP Server by CentOS (98.153.124.3) | Calabasas | AS20001 Charter Communications Inc | HTTP, SOAP, DHCP, DNS | 7 - Application |
| TLS, SSL, FTP | 6 - Presentation |
| RTCP | 5 – Session |
| TCP | 4 – Transport |
| IP | 3 – Network |
| Fast Ethernet | 2 – Data Link |
| 10GBASE | 1 - Physical |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Hop | Device | Local | Network/Organization | Techs & Protocols | OSI Layer |
| 0 | My Computer  (192.168.1.131) | Aveiro | UA VPN | HTTP, SOAP, DHCP, DNS | 7 - Application |
| TLS, SSL | 6 - Presentation |
| RTCP | 5 – Session |
| TCP | 4 – Transport |
| IPv4 | 3 – Network |
| Wi-Fi IEEE802.11x | 2 – Data Link |
| Free-Space radio | 1 - Physical |
|  |  |  |  |  |  |
| 1 | Router (193.137.173.235) | Aveiro | AS1930 Fundacao para a Ciencia e a Tecnologia, I.P. | IP | 3 - Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
|  |  |  |  |  |  |
| 2 | Router (193.137.173.244) | Aveiro | AS1930 Fundacao para a Ciencia e a Tecnologia, I.P. | IP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
|  |  |  |  |  |  |
| 3 | Router (10.0.34.1) Bogon / Endereço privado da network da UA | Aveiro | AS1930 Fundacao para a Ciencia e a Tecnologia, I.P. | IP, RIP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 – Physical |
| CHANGED NETWORK | | | | | |
| 4 | Router de Porto Campanhã (193.136.4.26) | Oporto | AS1930 Fundacao para a Ciencia e a Tecnologia, I.P. | IP, RIP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
|  |  |  |  |  |  |
| 5 | Router (193.137.4.2) | Oporto | AS1930 Fundacao para a Ciencia e a Tecnologia, I.P. | IP | 3 - Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
| Hop | Device | Local | Network/Organization | Techs & Protocols | OSI Layer |
| 6 | Router (193.136.4.1) | Lisbon | AS1930 Fundacao para a Ciencia e a Tecnologia, I.P. | IP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
|  |  |  |  |  |  |
| 7 | Router (194.210.6.203) | Lisbon | AS1930 Fundacao para a Ciencia e a Tecnologia, I.P. | IP, RIP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
| CHANGED NETWORK | | | | | |
| 8 | Router (83.97.88.209) | Lisbon | AS21320 GEANT Vereniging | IP, RIP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  |  |  |  |  |  |
| 9 | Router (62.40.98.107) | Madrid | AS20965 GEANT Vereniging | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  |  |  |  |  |  |
| 10 | Router (62.40.98.65) | Paris | AS20965 GEANT Vereniging | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  |  |  |  |  |  |
| 11 | Router (62.40.98.182) | London | AS20965 GEANT Vereniging | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  |  |  |  |  |  |
| 12 | Router (62.40.98.180) | Frankfurt am Main | AS20965 GEANT Vereniging | IP, RIP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
| CHANGED NETWORK | | | | | |
| Hop | Device | Local | Network/Organization | Techs & Protocols | OSI Layer |
| 13 | Router (80.239.135.136) | Frankfurt am Main | AS1299 Telia Company AB | IP, RIP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
|  |  |  |  |  |  |
| 14 | Router (62.115.142.4) | Frankfurt am Main | AS1299 Telia Company AB | IP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 – Physical |
|  |  |  |  |  |  |
| 15 | Router (62.115.114.98) | Paris | AS1299 Telia Company AB | IP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
|  |  |  |  |  |  |
| 16 | Router (62.115.122.159) | Solna | AS1299 Telia Company AB | IP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 – Physical |
|  |  |  |  |  |  |
| 17 | Router (62.115.125.191) | Solna | AS1299 Telia Company AB | IP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 – Physical |
|  |  |  |  |  |  |
| 18 | Router (80.91.246.75) | Solna | AS1299 Telia Company AB | IP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
|  |  |  |  |  |  |
| 19 | Router (62.115.156.209) | Solna | AS1299 Telia Company AB | IP, RIP | 3 – Network |
| Ethernet | 2 – Data link |
| Ethernet physical layer | 1 - Physical |
| CHANGED NETWORK | | | | | |
| Hop | Device | Local | Network/Organization | Techs & Protocols | OSI Layer |
| 20 | Router (66.109.5.120) | Englewood | AS7843 Charter Communications Inc | IP, RIP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  | | | | | |
| 21 | Router (66.109.5.228) | Englewood | AS7843 Charter Communications Inc | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  | | | | | |
| 22 | Router (209.18.43.73) | Dallas | AS7843 Charter Communications Inc | IP, RIP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
| CHANGED NETWORK | | | | | |
| 23 | Router (72.129.25.3) | Los Angeles | AS20001 Charter Communications Inc | IP, RIP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
|  | | | | | |
| 24 | Router (72.129.27.131) | Los Angeles | AS20001 Charter Communications Inc | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 – Physical |
|  | | | | | |
| 25 | Router (76.167.30.206) | Los Angeles | AS20001 Charter Communications Inc | IP | 3 – Network |
| PPPoE | 2 – Data link |
| OTN, SDH, SONET | 1 - Physical |
| REQUEST TIMED OUT… | | | | | |
| Hop | Device | Local | Network/Organization | Techs & Protocols | OSI Layer |
| \* | Apache HTTP Server by CentOS (98.153.124.3) | Calabasas | AS20001 Charter Communications Inc | HTTP, SOAP, DHCP, DNS | 7 - Application |
| TLS, SSL, FTP | 6 - Presentation |
| RTCP | 5 – Session |
| TCP | 4 – Transport |
| IP | 3 – Network |
| Fast Ethernet | 2 – Data Link |
| 10GBASE | 1 - Physical |