IMPACTA– Curso: Ciência da Computação

Redes de Computadores – Professor: Rodolfo Riyoei Goya

AC 2 – Endereçamento IP

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1. Quantas redes há no diagrama: 9 redes

Identifique as redes deste diagrama:

|  |  |
| --- | --- |
| **Rede** | **Hosts** |
| **LONDON** | **71** |
| **CALAIS** | **31** |
| **GLASGOW** | **7** |
| **ABERDEEN** | **81** |
| **ABERDEEN 2** | **40** |
| **RTA – RTD** | **2** |
| **RTB – RTE** | **2** |
| **RTC – RTD** | **2** |
| **RTD – RTE – RTF** | **3** |

1. Defina as máscaras para cada rede:

|  |  |  |
| --- | --- | --- |
| **Rede** | **Hosts** | **Máscara** |
| **LONDON** | **71** | **/25** |
| **CALAIS** | **31** | **/26** |
| **GLASGOW** | **7** | **/28** |
| **ABERDEEN** | **81** | **/25** |
| **ABERDEEN 2** | **40** | **/26** |
| **RTA – RTD** | **2** | **/30** |
| **RTB – RTE** | **2** | **/30** |
| **RTC – RTD** | **2** | **/30** |
| **RTD – RTE** | **3** | **/29** |
| **RTD – RTF** | **3** | **/29** |
| **RTE – RTF** | **3** | **/29** |

1. Defina os endereços de rede de todas as redes deste diagrama

|  |  |  |  |
| --- | --- | --- | --- |
| **Rede** | **Endereço** | **Máscara** | **Broadcast** |
| **ABERDEEN** | **10.0.2.0/25** | **255.255.255.128** | **10.0.2.127** |
| **LONDON** | **10.0.2.128/25** | **255.255.255.128** | **10.0.2.255** |
| **ABERDEEN 2** | **10.0.3.0/26** | **255.255.255.192** | **10.0.3.63** |
| **CALAIS** | **10.0.3.64/26** | **255.255.255.192** | **10.3.127** |
| **GLASGOW** | **10.0.3.128/28** | **255.255.255.240** | **10.0.3.143** |
| **RTD – RTE – RTF** | **10.0.3.144/29** | **255.255.255.248** | **10.0.3.151** |
| **RTA – RTD** | **10.0.3.152/30** | **255.255.255.252** | **10.0.3.155** |
| **RTB – RTE** | **10.0.3.156/30** | **255.255.255.252** | **10.0.3.159** |
| **RTC – RTD** | **10.0.3.160/30** | **255.255.255.252** | **10.0.3.163** |

1. Defina os endereços de todas as interfaces de roteadores deste diagrama

|  |  |
| --- | --- |
| **Interface** | **Endereço** |
| **RTA-E0** | **10.0.2.129/25** |
| **RTA-S1** | **10.0.3.153/30** |
| **RTB-E0** | **10.0.3.65/26** |
| **RTB-S1** | **10.0.3.157/30** |
| **RTC-S0** | **10.0.3.161/30** |
| **RTC-E1** | **10.0.3.129/28** |
| **RTD-S0** | **10.0.3.154/30** |
| **RTD-S1** | **10.0.3.162/30** |
| **RTD-E2** | **10.0.3.145/29** |
| **RTE-S0** | **10.0.3.158/30** |
| **RTE-E1** | **10.0.3.1/26** |
| **RTE-E2** | **10.0.3.146/29** |
| **RTF-E0** | **10.0.3.147/29** |
| **RTF-E1** | **10.0.2.1/25** |

1. Defina a configuração IP da primeira estação de cada rede

|  |  |  |  |
| --- | --- | --- | --- |
| **Estação** | **Endereço** | **Máscara** | **Gateway** |
| **Aberdeen** | **10.0.2.2** | **255.255.255.128** | **10.0.2.1** |
| **Aberdeen2** | **10.0.3.2** | **255.255.255.192** | **10.0.3.1** |
| **Calais** | **10.0.3.66** | **255.255.255.192** | **10.0.3.65** |
| **Glasgow** | **10.0.3.130** | **255.255.255.240** | **10.0.3.129** |
| **London** | **10.0.2.130** | **255.255.255.128** | **10.0.2.129** |

1. Defina a tabela de rotas de cada roteador

**RTA**

|  |  |
| --- | --- |
| **Rede** | **Next Hop** |
| **10.0.3.166/30** | **10.0.3.154** |
| **10.0.3.128/28** | **10.0.3.154** |
| **10.0.3.142/29** | **10.0.3.154** |
| **10.0.2.0/25** | **10.0.3.154** |
| **10.0.3.0/26** | **10.0.3.154** |
| **10.0.3.158/30** | **10.0.3.154** |
| **10.0.3.64/26** | **10.0.3.154** |

**RTB**

|  |  |
| --- | --- |
| **Rede** | **Next Hop** |
| **10.0.2.0/25** | **10.0.3.158** |
| **10.0.2.128/25** | **10.0.3.158** |
| **10.0.3.0/26** | **10.0.3.158** |
| **10.0.3.128/28** | **10.0.3.158** |
| **10.0.3.142/29** | **10.0.3.158** |
| **10.0.3.150/30** | **10.0.3.158** |
| **10.0.3.166/30** | **10.0.3.158** |

**RTC**

|  |  |
| --- | --- |
| **Rede** | **Next Hop** |
| **10.0.2.0/25** | **10.0.3.162** |
| **10.0.2.128/25** | **10.0.3.162** |
| **10.0.3.0/26** | **10.0.3.162** |
| **10.0.3.64/26** | **10.0.3.162** |
| **10.0.3.142/29** | **10.0.3.162** |
| **10.0.3.150/30** | **10.0.3.162** |
| **10.0.3.158/30** | **10.0.3.162** |

**RTD**

|  |  |
| --- | --- |
| **Rede** | **Next Hop** |
| **10.0.2.0/25** | **10.0.3.147** |
| **10.0.2.128/25** | **10.0.3.153** |
| **10.0.3.0/26** | **10.0.3.146** |
| **10.0.3.64/26** | **10.0.3.146** |
| **10.0.3.128/28** | **10.0.3.161** |
| **10.0.3.158/30** | **10.0.3.146** |

**RTE**

|  |  |
| --- | --- |
| **Rede** | **Next Hop** |
| **10.0.2.0/25** | **10.0.3.147** |
| **10.0.2.128/25** | **10.0.3.145** |
| **10.0.3.64/26** | **10.0.3.157** |
| **10.0.3.128/28** | **10.0.3.145** |
| **10.0.3.150/30** | **10.0.3.145** |
| **10.0.3.166/30** | **10.0.3.145** |

**RTF**

|  |  |
| --- | --- |
| **Rede** | **Next Hop** |
| **10.0.3.145** | **10.0.3.145** |
| **10.0.3.0/26** | **10.0.3.146** |
| **10.0.3.64/26** | **10.0.3.146** |
| **10.0.3.128/28** | **10.0.3.145** |
| **10.0.3.150/30** | **10.0.3.145** |
| **10.0.3.158/30** | **10.0.3.146** |
| **10.0.3.166/30** | **10.0.3.145** |