

# Universidade da Beira Interior

## Departamento de Informática



### *Laboratório Avaliação Final - Redes de Computadores*

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## ***Capítulo***

# **1**

## ***Introdução***

### **1.1 Âmbito e Enquadramento**

Encontra-se a analisar um pequeno relatório, elaborado no 2.º semestre do 1.º ano da Licenciatura em Engenharia Informática da Universidade da Beira Interior.

Foi confeccionado no contexto da unidade curricular Redes de Computadores, com base no Laboratório Avaliação Final. Este documento detém as configurações de todos os Routers e Switches presentes, bem como a suas Tabelas de Endereços relativas a este exercício final.

Por fim, uma breve análise crítica e como abordamos o problema.



## **Capítulo**

# 2

## ***Configurações dos Routers/Switches e Tabelas de Endereços***

### **2.1 Configurações dos Routers e Switches**

#### **2.1.1 Router Emp X *running-config***

```
!  
version 12.2  
  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
  
!  
hostname Emp_X_Lx  
  
!  
!  
!  
!
```



```
ip address 172.16.0.2 255.255.255.0

duplex auto

speed auto

!

interface GigabitEthernet0/0.1

encapsulation dot1Q 1 native

ip address 172.16.1.1 255.255.255.0

ip helper-address 172.16.0.1

!

interface GigabitEthernet0/0.99

encapsulation dot1Q 99

ip address 173.249.51.1 255.255.255.0

!

interface GigabitEthernet0/0.100

encapsulation dot1Q 100

ip address 172.16.100.1 255.255.255.0

ip helper-address 172.16.0.1

!

interface GigabitEthernet0/0.101

encapsulation dot1Q 101

ip address 172.16.101.1 255.255.255.0

ip helper-address 172.16.0.1

!

interface GigabitEthernet1/0
```

```
ip address 10.0.0.5 255.255.255.252

duplex auto

speed auto

!

router rip

version 2

network 10.0.0.0

network 172.16.0.0

network 173.249.0.0

no auto-summary

!

ip classless

!

ip flow-export version 9

!

!

!

no cdp run

!

!

!

!

!

!

line con 0
```



```
!  
line aux 0  
!  
line vty 0 4  
  login  
!  
!  
!  
end
```

### 2.1.2 Router Emp X Porto *running-config*

```
!  
version 12.2  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname Emp_X_Porto  
!  
!  
!  
!  
!  
!
```

```
!
!
no ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
interface GigabitEthernet0/0
ip address 10.0.0.10 255.255.255.252
duplex auto
```

```
speed auto

!

interface GigabitEthernet1/0

ip address 12.0.0.1 255.0.0.0

duplex auto

speed auto

!

interface GigabitEthernet1/0.1

encapsulation dot1Q 1 native

ip address 172.17.1.1 255.255.255.0

!

interface GigabitEthernet1/0.100

encapsulation dot1Q 100

ip address 172.17.100.1 255.255.255.0

ip helper-address 172.16.0.1

!

interface GigabitEthernet1/0.101

encapsulation dot1Q 101

ip address 172.17.101.1 255.255.255.0

ip helper-address 172.16.0.1

!

interface GigabitEthernet1/0.200

encapsulation dot1Q 200

ip address 172.17.200.1 255.255.255.0
```

```
ip access-group 1 out
!
router rip
  version 2
  network 10.0.0.0
  network 12.0.0.0
  network 172.17.0.0
  no auto-summary
!
ip classless
!
ip flow-export version 9
!
!
access-list 1 deny host 172.17.101.2
access-list 1 deny host 172.17.101.3
access-list 1 deny host 172.16.101.2
access-list 1 permit any
!
!
!
!
!
!
line con 0
```

```
!  
line aux 0  
!  
line vty 0 4  
    login  
!  
!  
!  
end
```

### **2.1.3 Router ISP A Lx *running-config***

```
!  
version 12.2  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname ISP_A_Lx  
!  
!  
!  
!  
!  
!
```

[illegible]

```
speed auto
!
interface GigabitEthernet1/0
ip address 10.10.0.1 255.255.255.252
duplex auto
speed auto
!
interface GigabitEthernet2/0
ip address 10.0.0.1 255.255.255.252
!
router rip
version 2
network 10.0.0.0
network 172.16.0.0
no auto-summary
!
ip classless
!
ip flow-export version 9
!
!
!
no cdp run
!
```

```
!  
!  
!  
!  
!  
line con 0  
!  
line aux 0  
!  
line vty 0 4  
    login  
!  
!  
!  
end
```

### 2.1.4 Router ISP A Porto *running-config*

```
!  
version 12.2  
  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
  
!  
hostname ISP_A_Porto  
  
!
```



```
!
!  
!  
!  
!  
!  
  
no ip cef  
  
no ipv6 cef  
  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!
```

```
!  
!  
!  
interface GigabitEthernet0/0  
    ip address 10.0.0.2 255.255.255.252  
!  
interface GigabitEthernet1/0  
    ip address 10.0.0.9 255.255.255.252  
    duplex auto  
    speed auto  
!  
interface GigabitEthernet2/0  
    ip address 10.10.0.13 255.255.255.252  
    duplex auto  
    speed auto  
!  
router rip  
    version 2  
    network 10.0.0.0  
    no auto-summary  
!  
ip classless  
!  
ip flow-export version 9  
!
```

```
!  
!  
no cdp run  
!  
!  
!  
!  
!  
!  
!  
line con 0  
!  
line aux 0  
!  
line vty 0 4  
    login  
!  
!  
!  
end
```

### 2.1.5 Router GigaPixLx *running-config*

```
!  
version 12.2  
no service timestamps log datetime msec
```

```
no service timestamps debug datetime msec
no service password-encryption
!
hostname GigaPixLx
!
!
!
!
!
!
!
!
!
no ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
!
```

```
!  
!  
!  
!  
!  
!  
!  
!  
  
interface GigabitEthernet0/0  
  
  ip address 10.10.0.2 255.255.255.252  
  
  duplex auto  
  
  speed auto  
  
!  
  
interface GigabitEthernet1/0  
  
  ip address 10.10.0.5 255.255.255.252  
  
  duplex auto  
  
  speed auto  
  
!  
  
interface GigabitEthernet2/0  
  
  ip address 10.10.0.9 255.255.255.252  
  
  duplex auto  
  
  speed auto  
  
!  
  
interface GigabitEthernet3/0  
  
  ip address 10.10.0.33 255.255.255.252
```

```
!  
router ospf 10  
    router-id 1.1.1.1  
    log-adjacency-changes  
    redistribute rip subnets  
    network 10.10.0.0 0.0.0.3 area 0  
!  
router rip  
    version 2  
    redistribute ospf 10 metric 12  
    network 10.0.0.0  
    no auto-summary  
!  
ip classless  
!  
ip flow-export version 9  
!  
!  
!  
no cdp run  
!  
banner motd #Bem Vindo ao Router GigaPix de Lisboa#  
!  
!  
!
```

```
!  
!  
line con 0  
!  
line aux 0  
!  
line vty 0 4  
    login  
!  
!  
!  
end
```

### 2.1.6 Router GigaPixPorto *running-config*

```
!  
version 12.2  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname GigaPixPorto  
!  
!  
!
```





```
ip address 10.10.0.14 255.255.255.252

duplex auto

speed auto

!

interface GigabitEthernet1/0

ip address 10.10.0.34 255.255.255.252

!

interface Serial2/0

no ip address

encapsulation frame-relay

!

interface Serial2/0.100 point-to-point

ip address 10.10.0.21 255.255.255.252

frame-relay interface-dlci 100

!

interface Serial2/0.200 point-to-point

ip address 10.10.0.25 255.255.255.252

frame-relay interface-dlci 200

!

interface Serial2/0.300 point-to-point

ip address 10.10.0.29 255.255.255.252

frame-relay interface-dlci 300

!

interface GigabitEthernet3/0
```

```
ip address 10.10.0.17 255.255.255.252

duplex auto

speed auto

!

router ospf 10

  router-id 2.2.2.2

  log-adjacency-changes

  redistribute rip subnets

  network 10.10.0.0 0.0.0.3 area 0

!

router rip

  version 2

  redistribute ospf 10 metric 12

  network 10.0.0.0

  no auto-summary

!

ip classless

!

ip flow-export version 9

!

!

!

no cdp run

!

banner motd #Bem Vindo ao Router GigaPix do Porto#
```

```
!  
!  
!  
!  
!  
line con 0  
!  
line aux 0  
!  
line vty 0 4  
  login  
!  
!  
!  
end
```

### 2.1.7 Router Emp Y *running-config*

```
!  
version 12.2  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname Emp_Y
```

```
!
!
!
!
!
!
!
!
no ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
!
!
!
```

```
!  
!  
!  
interface GigabitEthernet0/0  
    ip address 10.10.0.10 255.255.255.252  
    duplex auto  
    speed auto  
!  
interface FastEthernet1/0  
    ip address 91.198.174.1 255.255.255.0  
    duplex auto  
    speed auto  
!  
interface FastEthernet2/0  
    ip address 208.80.154.1 255.255.255.0  
    duplex auto  
    speed auto  
!  
interface FastEthernet3/0  
    ip address 20.0.0.1 255.255.255.252  
    duplex auto  
    speed auto  
!  
router rip
```

```
version 2

network 10.0.0.0

network 20.0.0.0

network 91.0.0.0

network 208.80.154.0

no auto-summary

!

ip classless

!

ip flow-export version 9

!

!

!

no cdp run

!

!

!

!

!

!

!

line con 0

!

line aux 0

!

line vty 0 4
```

```
login
!  
!  
!  
end
```

### 2.1.8 RouterEmail *running-config*

```
!
version 12.2

no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption

!

hostname RouterEmail

!

!

!

!

!

!

!

!

no ip cef

no ipv6 cef
```

```
!
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
  
interface Serial0/0  
no ip address  
encapsulation frame-relay  
clock rate 2000000  
!  
interface Serial0/0.101 point-to-point  
ip address 10.10.0.22 255.255.255.252  
frame-relay interface-dlci 101
```



```
!  
interface FastEthernet1/0  
    ip address 170.1.2.1 255.255.255.0  
    duplex auto  
    speed auto  
!  
router rip  
    version 2  
    network 10.0.0.0  
    network 170.1.0.0  
    no auto-summary  
!  
ip classless  
!  
ip flow-export version 9  
!  
!  
!  
no cdp run  
!  
!  
!  
!  
!
```

```
!  
  
line con 0  
  
!  
  
line aux 0  
  
!  
  
line vty 0 4  
  
    login  
  
!  
  
!  
  
!  
  
end
```

### 2.1.9 RouterCNN *running-config*

```
!  
  
version 12.2  
  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
  
!  
  
hostname RouterCNN  
  
!  
  
!  
  
!  
  
!  
  
!
```

[illegible]

```
no ip address

encapsulation frame-relay

clock rate 2000000

!

interface Serial0/0.201 point-to-point

ip address 10.10.0.26 255.255.255.252

frame-relay interface-dlci 201

!

interface FastEthernet1/0

ip address 151.101.133.1 255.255.255.0

duplex auto

speed auto

!

router rip

version 2

network 10.0.0.0

network 151.101.0.0

no auto-summary

!

ip classless

!

ip flow-export version 9

!

!

!
```

```
no cdp run

!

!

!

!

!

!

line con 0

!

line aux 0

!

line vty 0 4

    login

!

!

!

end
```

**2.1.10 RouterDNS *running-config***

```
!

version 12.2

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption
```

```
!
hostname RouterDNS
!
!
!
!
!
!
!
!
!
no ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
!
!
```

```
!  
!  
!  
!  
!  
interface Serial0/0  
    no ip address  
    encapsulation frame-relay  
    clock rate 2000000  
!  
interface Serial0/0.301 point-to-point  
    ip address 10.10.0.30 255.255.255.252  
    frame-relay interface-dlci 301  
!  
interface Serial0/0.401 point-to-point  
    ip address 192.168.1.2 255.255.255.252  
    frame-relay interface-dlci 401  
!  
interface FastEthernet1/0  
    ip address 8.0.0.1 255.0.0.0  
    duplex auto  
    speed auto  
!  
router rip
```

```
version 2

network 8.0.0.0

network 10.0.0.0

no auto-summary

!

ip classless

!

ip flow-export version 9

!

!

!

no cdp run

!

!

!

!

!

!

!

line con 0

!

line aux 0

!

line vty 0 4

login

!
```



```
!  
!  
end
```

**2.1.11 Router Casa A *running-config***

```
!  
version 12.2  
  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
  
!  
hostname Casa_A  
  
!  
!  
!  
!  
!  
!  
!  
!  
!  
  
no ip cef  
no ipv6 cef  
  
!  
!
```

```
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
  
interface GigabitEthernet0/0  
  
ip address 10.1.0.2 255.255.255.252  
  
duplex auto  
  
speed auto  
  
!  
  
interface GigabitEthernet1/0  
  
ip address 10.0.1.1 255.255.255.0  
  
duplex auto  
  
speed auto  
  
!
```

```
router rip
  version 2
  network 10.0.0.0
  no auto-summary
!
ip classless
!
ip flow-export version 9
!
!
!
no cdp run
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
  login
```

```
!  
!  
!  
end
```

### 2.1.12 Router Casa B *running-config*

```
!  
version 12.2  
  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
  
!  
hostname Casa_B  
  
!  
!  
!  
!  
!  
!  
!  
!  
!  
  
no ip cef  
no ipv6 cef  
  
!  
!
```

```
!
username hackerman privilege 15 password 0 123
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
interface GigabitEthernet0/0
    ip address 10.1.0.6 255.255.255.252
    duplex auto
    speed auto
!
interface FastEthernet1/0
```

```
ip address 10.0.2.1 255.255.255.0
```

```
duplex auto
```

```
speed auto
```

```
!
```

```
router rip
```

```
version 2
```

```
network 10.0.0.0
```

```
no auto-summary
```

```
!
```

```
ip classless
```

```
!
```

```
ip flow-export version 9
```

```
!
```

```
!
```

```
!
```

```
no cdp run
```

```
!
```

```
!
```

```
!
```

```
!
```

```
!
```

```
!
```

```
line con 0
```

```
!
```

```
line aux 0
```

```
!  
line vty 0 4  
    login local  
!  
!  
!  
end
```

**2.1.13 Switch0 *running-config***

```
!  
version 12.1  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname Switch0  
!  
!  
!  
!  
!  
!  
!  
spanning-tree mode pvst  
spanning-tree extend system-id
```

```
!  
  
interface FastEthernet0/1  
  
    switchport access vlan 100  
  
    switchport mode access  
  
!  
  
interface FastEthernet1/1  
  
    switchport access vlan 100  
  
    switchport mode access  
  
!  
  
interface FastEthernet2/1  
  
    switchport access vlan 101  
  
    switchport mode access  
  
!  
  
interface FastEthernet3/1  
  
    switchport access vlan 99  
  
    switchport mode access  
  
!  
  
interface FastEthernet4/1  
  
    switchport trunk allowed vlan 1,99-101  
  
    switchport mode trunk  
  
!  
  
interface GigabitEthernet5/1  
  
    switchport trunk allowed vlan 1,99-101  
  
    switchport mode trunk  
  
!
```



```
interface Vlan1

  ip address 172.16.1.1 255.255.255.0

!

!

!

!

line con 0

!

line vty 0 4

  login

line vty 5 15

  login

!

!

!

!

end
```

**2.1.14 Switch1 *running-config***

```
!

version 12.1

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption
```

```
!  
hostname Switch1  
  
!  
  
!  
  
!  
  
!  
  
!  
  
spanning-tree mode pvst  
spanning-tree extend system-id  
  
!  
  
interface GigabitEthernet0/1  
    switchport trunk allowed vlan 1,99-101,200  
    switchport mode trunk  
  
!  
  
interface FastEthernet1/1  
    switchport access vlan 101  
    switchport mode access  
  
!  
  
interface FastEthernet2/1  
    switchport access vlan 101  
    switchport mode access  
  
!  
  
interface FastEthernet3/1  
    switchport access vlan 100
```

```
switchport mode access
!
interface FastEthernet4/1
!
interface FastEthernet5/1
switchport access vlan 200
switchport mode access
!
interface Vlan1
ip address 172.17.1.1 255.255.255.0
!
!
!
!
line con 0
password rocks
login
!
line vty 0 4
login
line vty 5 15
login
!
!
```

```
!  
!  
end
```

### 2.1.15 Switch2 *running-config*

```
!  
version 12.1  
  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
  
!  
hostname Switch2  
  
!  
!  
!  
!  
  
username hackerman2 privilege 15 password 0 123  
  
!  
!  
!  
  
spanning-tree mode pvst  
spanning-tree extend system-id  
  
!  
  
interface GigabitEthernet0/1  
  
!
```

```
interface GigabitEthernet1/1
!
interface FastEthernet2/1
!
interface Vlan1
  ip address 10.0.1.4 255.255.255.0
!
ip default-gateway 10.0.1.1
!
!
!
!
line con 0
!
line vty 0 4
  login local
line vty 5 15
  login
!
!
!
!
end
```

## 2.2 Tabelas de Endereços

Equipamento	Interface	Endereço	Máscara de Rede	Default Gateway
Laptop0	Wireless0	10.0.1.3	255.255.255.0	10.0.1.1
www.noticiasdacovilha.pt	fa0	173.249.51.18	255.255.255.0	173.249.51.1
www.intranet.com	fa0	172.17.200.2	255.255.255.0	172.17.200.1
www.cnn.com	fa0	151.101.133.67	255.255.255.0	151.101.133.1
www.wikimail.org	fa0	208.80.154.238	255.255.255.0	208.80.154.1
www.wikipedia.org	fa0	91.198.174.192	255.255.255.0	91.198.174.1
DNS Emp X	fa0	12.0.8.8	255.0.0.0	12.0.0.1
DNS	fa0	10.0.8.8	255.255.255.224	10.0.8.1
DNS 8.8.8.8	fa0	8.8.8.8	255.0.0.0	8.0.0.1
emailspb.pt	fa0	193.1.2.3	255.255.255.0	193.1.2.1
email.com	fa0	170.1.2.3	255.255.255.0	170.1.2.1
DHCP Lx	fa0	172.16.0.1	255.255.255.0	172.16.0.2
DHCP	fa0	10.0.99.99	255.255.255.0	10.0.99.1
FTP	fa0	20.0.0.2	255.255.255.252	20.0.0.1
Emp X Lx	gi0/0	172.16.0.2	255.255.255.0	N/A
	gi0/0.1	172.16.1.1	255.255.255.0	N/A
	gi0/0.99	173.249.51.1	255.255.255.0	N/A
	gi0/0.100	172.16.100.1	255.255.255.0	N/A
	gi0/0.101	172.16.101.1	255.255.255.0	N/A
	gi1/0	10.0.0.5	255.255.255.252	N/A
Emp X Porto	gi0/0	10.0.0.10	255.255.255.252	N/A
	gi1/0	12.0.0.1	255.0.0.0	N/A
	gi1/0.1	172.17.1.1	255.255.255.0	N/A
	gi1/0.100	172.17.100.1	255.255.255.0	N/A
	gi1/0.101	172.17.101.1	255.255.255.0	N/A
	gi1/0.200	172.17.200.1	255.255.255.0	N/A
ISP A Lx	gi0	10.0.0.6	255.255.255.252	N/A
	gi1	10.10.0.1	255.255.255.252	N/A
	gi2	10.0.0.1	255.255.255.252	N/A
ISP A Porto	gi0	10.0.0.2	255.255.255.252	N/A
	gi1	10.0.0.9	255.255.255.252	N/A
	gi2	10.10.0.13	255.255.255.252	N/A

Tabela 2.1: Tabela de Endereços.

Equipamento	Interface	Endereço	Máscara de Rede	Default Gateway
GigaPixLx	gi0	10.10.0.2	255.255.255.252	N/A
	gi1	10.10.0.5	255.255.255.252	N/A
	gi2	10.10.0.9	255.255.255.252	N/A
	gi3	10.10.0.33	255.255.255.252	N/A
GigaPixPorto	gi0	10.10.0.14	255.255.255.252	N/A
	gi1	10.10.0.34	255.255.255.252	N/A
	se2/0.100	10.10.0.21	255.255.255.252	N/A
	se2/0.200	10.10.0.25	255.255.255.252	N/A
	se2/0.300	10.10.0.29	255.255.255.252	N/A
	gi3	10.10.0.17	255.255.255.252	N/A
ISP B Lx	gi0	10.0.0.6	255.255.255.252	N/A
	gi1	10.1.0.1	255.255.255.252	N/A
	gi2	10.1.0.5	255.255.255.252	N/A
ISP B Porto	gi0	10.10.0.18	255.255.255.252	N/A
	se1/0.400	102.168.1.1	255.255.255.252	N/A
	fa2	193.1.2.1	255.255.255.0	N/A
	fa3	10.0.8.1	255.255.255.224	N/A
	fa4	10.0.99.1	255.255.255.0	N/A
Emp Y	gi0	10.10.0.10	255.255.255.252	N/A
	fa1	91.198.174.1	255.255.255.0	N/A
	fa2	208.80.154.1	255.255.255.0	N/A
	fa3	20.0.0.1	255.255.255.252	N/A
RouterEmail	se0/0.101	10.10.0.22	255.255.255.252	N/A
	fa1	171.1.2.1	255.255.255.0	N/A
RouterCNN	se0/0.201	10.10.0.26	255.255.255.252	N/A
	fa1	151.101.133.1	255.255.255.0	N/A
RouterDNS	se0/0.301	10.10.0.30	255.255.255.252	N/A
	se0/0.401	192.168.1.2	255.255.255.252	N/A
	fa1	8.0.0.1	255.0.0.0	N/A
Casa A	gi0	10.1.0.2	255.255.255.252	N/A
	gi1	10.0.1.1	255.255.255.0	N/A
Casa B	gi0	10.1.0.6	255.255.255.252	N/A
	fa1	10.0.2.1	255.255.255.0	N/A
Switch0	Vlan1	172.16.1.1	255.255.255.0	N/A
Switch1	Vlan1	172.17.1.1	255.255.255.0	N/A
Switch2	Vlan1	10.0.1.4	255.255.255.0	N/A
PC0	fa0	10.0.1.2	255.255.255.0	10.0.1.1
PC1	fa0	10.0.2.2	255.255.255.0	10.0.2.1
PC2	fa0	DHCP		
PC3	fa0	DHCP		
PC4	fa0	DHCP		
PC5	fa0	DHCP		
PC6	fa0	DHCP		
PC7	fa0	DHCP		

Tabela 2.2: Tabela de Endereços.





## **Capítulo**

# 3

## **Análise Crítica**

Contávamos com um grande desafio e foi assim que o abordámos desde o início.

Após lermos o respetivo enunciado, começamos por configurar toda a rede da Empresa X, à partida mostrou-se um enorme desafio, mas gradualmente conseguimos corrigir os erros que surgiam. Com toda a parte superior da rede funcional, passámos para a configuração dos ISPs, Routers e Servidores, bem como DNS Hierárquico, contas Email e depois sim, a Cloud. Por fim, fizemos os extras e concluímos o relatório.

No geral, a experiência laboratorial adquirida nas aulas foi suficiente para concluir este desafio, havendo apenas a necessidade de uma pesquisa mais pessoal nos extras, através de alguns vídeos. O maior desafio foi mesmo a rede da Empresa X, no começo contámos com a presença de erros de APIPA e tivemos de recordar conceitos dados anteriormente.

É importante realçar a presença dos professores, que se mostraram sempre disponíveis para salvaguardar o bem-estar, esclarecer dúvidas e transmitir o sentimento de segurança necessário, mesmo à distância.

É de lamentar as condições que devemos à atual situação pandémica, mas conseguimos nos adaptar na medida do possível.

