# RC- 1ª Fase

André Silva n.mec.: 119480 (X1:1; X2:9; X3: 4; X4:8; X5:0)

Dinis Oliveira n.mec.: 119193 (X6: 3; X7: 9; X8: 1; X9: 9; X10:1)

## Redes IPv4 - Publicas e Privadas

* Calendar Inc
  + Publica
    - Endereço de rede: 203.184.191.128
    - Mascara: 255.255.255.128
    - Broadcast: 203.184.191.255
    - Range: 203.184.191.129 a 203.194.81.254
  + Privada
    - Endereço de rede: 172.20.12.0
    - Mascara: 255.255.254.0
    - Broadcast: 172.20.13.255
    - Range: 172.20.12.1 a 172.29.13.254
* Horoscope Inc
  + Publica
    - Endereço de rede: 203.19.19.0
    - Mascara: 255.255.255.128
    - Broadcast: 203.19.19.127
    - Range: 203.19.19.1 a 203.19.19.126
  + Privada
    - Endereço de rede: 172.29.32.0
    - Mascara: 255.255.254.0
    - Broadcast: 172.29.33.255
    - Range: 172.29.32.1 a 172.29.33.254

## VLANS

* Calendar Inc
  + Publica
    - VLAN 2 -
      * Endereço de rede: 203.184.191.224
      * Máscara: 255.255.255.240 (/28)
      * Broadcast: 203.184.191.239
      * Range: 203.184.191.225 a 203.184.191.238
      * Gateway: 203.184.191.238
    - VLAN 4
      * Endereço de rede: 203.184.191.192
      * Máscara: 255.255.255.224 (/27)
      * Broadcast: 203.184.191.223
      * Range: 203.184.191.193 a 203.184.191.222
      * Gateway: 203.184.191.222
    - VLAN 6
      * Endereço de rede: 203.184.191.128
      * Máscara: 255.255.255.192 (/26)
      * Broadcast: 203.184.191.191
      * Range: 203.184.191.129 a 203.184.191.190
      * Gateway: 203.184.191.190
    - VLAN 8
      * Endereço de rede: 203.184.191.240
      * Máscara: 255.255.255.248 (/29)
      * Broadcast: 203.184.191.247
      * Range: 203.184.191.241 a 203.184.191.246
      * Gateway: 203.184.191.246
    - VLAN 12
      * Endereço de rede: 203.184.191.248
      * Máscara: 255.255.255.252 (/30)
      * Broadcast: 203.184.191.251
      * Range: 203.184.191.249 a 203.184.191.250
      * Gateway: 203.184.191.250
  + Privada
    - VLAN 2
      * Endereço de rede: 172.20.12.0
      * Máscara: 255.255.255.0 (/24)
      * Broadcast: 172.20.12.255
      * Range: 172.20.12.1 a 172.20.12.254
      * Gateway: 172.20.12.254
    - VLAN 4
      * Endereço de rede: 172.20.13.0
      * Máscara: 255.255.255.128 (/25)
      * Broadcast: 172.20.13.127
      * Range: 172.20.13.1 a 172.20.13.126
      * Gateway: 172.20.13.126
    - VLAN 6
      * Endereço de rede: 172.20.13.128
      * Máscara: 255.255.255.192 (/26)
      * Broadcast: 172.20.13.191
      * Range: 172.20.13.129 a 172.20.13.190
      * Gateway: 172.20.13.190
    - VLAN 8
      * Endereço de rede: 172.20.13.192
      * Máscara: 255.255.255.224 (/27)
      * Broadcast: 172.20.13.223
      * Range: 172.20.13.193 a 172.20.13.222
      * Gateways: 172.20.13.222
    - VLAN 12
* Horoscope Inc
  + Publica
    - VLAN 14
      * Endereço de rede: 203.19.19.0
      * Máscara: 255.255.255.224 (/27)
      * Broadcast: 203.19.19.31
      * Range: 203.19.19.1 a 203.19.19.30
      * Gateway: 203.19.19.30
    - VLAN 16
      * Endereço de rede: 203.19.19.32
      * Máscara: 255.255.255.224 (/27)
      * Broadcast: 203.19.19.63
      * Range: 203.19.19.33 a 203.19.19.62
      * Gateway: 203.19.19.62
    - VLAN 18
      * Endereço de rede: 203.19.19.64
      * Máscara: 255.255.255.240 (/28)
      * Broadcast: 203.19.19.79
      * Range: 203.19.19.65 a 203.19.19.78
      * Gateway: 203.19.19.78
    - VLAN 20
      * Endereço de rede: 203.19.19.80
      * Máscara: 255.255.255.240 (/28)
      * Broadcast: 203.19.19.95
      * Range: 203.19.19.81 a 203.19.19.94
      * Gateway: 203.19.19.94
    - VLAN 22
      * Endereço de rede: 203.19.19.96
      * Máscara: 255.255.255.240 (/28)
      * Broadcast: 203.19.19.111
      * Range: 203.19.19.97 a 203.19.19.110
      * Gateway: 203.19.19.110
    - VLAN 24
      * Endereço de rede: 203.19.19.112
      * Máscara: 255.255.255.252 (/30)
      * Broadcast: 203.19.19.115
      * Range: 203.19.19.113 a 203.19.19.114
      * Gateway: 203.19.19.114
  + Privada
    - VLAN 14
      * Endereço de rede: 172.29.33.128
      * Máscara: 255.255.255.224 (/27)
      * Broadcast: 172.29.33.159
      * Range: 172.29.33.129 a 172.29.33.158
      * Gateway: 172.29.33.158
    - VLAN 16
      * Endereço de rede: 172.29.33.0
      * Máscara: 255.255.255.192 (/26)
      * Broadcast: 172.29.33.63
      * Range: 172.29.33.1 a 172.29.33.62
      * Gateway: 172.29.33.62
    - VLAN 18
      * Endereço de rede: 172.29.33.64
      * Máscara: 255.255.255.192 (/26)
      * Broadcast: 172.29.33.127
      * Range: 172.29.33.65 a 172.29.33.126
      * Gateway: 172.29.33.126
    - VLAN 20
      * Endereço de rede: 172.29.33.159
      * Máscara: 255.255.255.240 (/28)
      * Broadcast: 172.29.33.174
      * Range: 172.29.33.160 a 172.29.33.173
      * Gateway: 172.29.33.173
    - VLAN 22
      * Endereço de rede: 172.29.32.0
      * Máscara: 255.255.255.0 (/24)
      * Broadcast: 172.29.32.255
      * Range: 172.29.32.1 a 172.29.32.255
    - VLAN 24

## IPv6

* Calendar Inc
  + Global IPv6 Network: 2002:A194:BC80::/48
  + Router 2 subnetwork:
    - Subnet Address: 2002:a194:bc80:100::/56
    - Range: 2002:a194:bc80:100:: - 2002:a194:bc80:1ff::
  + ESW2 subnetwork:
    - Subnet Address: 2002:a194:bc80:200::/56
    - Range: 2002:a194:bc80:200:: - 2002:a194:bc80:2ff::
  + Interconnection subnetwork:
    - Subnet Address: 2002:a194:bc80:300::/56
    - Range: 2002:a194:bc80:300:: - 2002:a194:bc80:3ff::
    - Subnet Address (/126): 2002:a194:bc80:300::4/126
  + VLANS:
    - VLAN 6: 2002:a194:bc80:101::/64
    - VLAN 8: 2002:a194:bc80:102::/64
    - VLAN 2: 2002:a194:bc80:201::/64
    - VLAN 4: 2002:a194:bc80:202::/64
    - VLAN 12: 2002:a194:bc80:203::/64
* Horoscope Inc
  + Global IPv6 Network: 2002:A191:BC93::/48
  + Router 1 subnetwork:
    - Subnet Address: 2002:a191:bc93:100::/56
    - Range: 2002:a191:bc93:100:: - 2002:a191:bc93:1ff::
  + ESW1 subnetwork:
    - Subnet Address: 2002:a191:bc93:200::/56
    - Range: 2002:a191:bc93:200:: - 2002:a191:bc93:2ff::
  + Interconnection subnetwork:
    - Subnet Address: 2002:a191:bc93:300::/56
    - Range: 2002:a191:bc93:300:: - 2002:a191:bc93:3ff::
    - Subnet Address (/126): 2002:a191:bc93:300::4/126
  + VLANS:
    - VLAN 14: 2002:a191:bc93:101::/64
    - VLAN 16: 2002:a192:bc93:102::/64
    - VLAN 24: 2002:a193:bc93:103::/64
    - VLAN 18: 2002:a191:bc93:201::/64
    - VLAN 20: 2002:a191:bc93:201::/64
    - VLAN 22: 2002:a191:bc93:201::/64

## Addresses of Interfaces

* ESW1
  + F0/0
    - 172.29.33.175(VLAN1/Default)
  + F1/13
    - 203.19.19.78 (VLAN18)
    - 203.19.19.94 (VLAN20)
    - 203.19.19.110 (VLAN22)
  + F1/14
    - 172.29.33.173 (VLAN20)
  + F1/15
    - 172.29.33.126 (VLAN 18)
* R1
  + F2/0
    - 172.29.33.158 (F2/0.14)
    - 203.19.19.30 (F2/0.14)
    - 172.29.33.62 (F2/0.16)
    - 203.19.19.62 (F2/0.16)
    - 203.19.19.114 (F2/0.24)
  + F1/0
    - 172.29.33.126 (F1/0.18)
    - 203.19.19.78 (F1/0.18)
    - 172.29.33.173 (F1/0.20)
    - 203.19.19.94 (F1/0.20)
    - 203.19.19.110 (F1/0.x22)
  + G0/0
    - 192.168.101.189 /24
* ESW2
  + F0/0
    - 172.20.13.224(VLAN1/Default)
  + F1/15
    - 172.20.13.126 (VLAN 4)
    - 172.20.12.254 (VLAN2)
    - 203.184.191.222 (VLAN4)
    - 203.284.191.238 (VLAN2)
  + F1/14
    - 172.20.13.126 (VLAN 4)
    - 172.20.12.254 (VLAN2)
    - 203.184.191.250 (VLAN12)
    - 203.184.191.222 (VLAN4)
    - 203.284.191.238 (VLAN2)
* R2
  + F1/1
    - 172.20.13.126 (F1/1.4)
    - 172.20.12.254 (F1/1.2)
    - 203.184.191.250 (F1/1.12)
    - 203.184.191.222 (F1/1.4)
    - 203.284.191.238 (F1/1.2)
  + F1/2
    - 172.20.13.190 (F1/2.6)
    - 172.20.13.222 (F1/2.8)
    - 203.184.191.190 (F1/2.6)
    - 203.184.191.246 (F1/2.8)
  + G0/0
    - 192.168.101.141/24

## NAT/PAT Networks e Range

Conjunto de endereços disponíveis para tradução:

Calendar Inc

203.184.191.251 (/30)

* + - 1. (/30)

Range: 172.20.12.1 a 172.29.13.254

Except: 172.20.13.193 a 172.20.13.221

Horoscope Inc

203.19.19.115 (/30)

203.19.19.116 (/30)

203.19.19.117 (/30)

Range: 172.29.32.1 a 172.29.33.254

Except: 172.29.33.65 a 172.29.33.125