

Redes de Comunicações I  
Universidade de Aveiro



Departamento de Eletrónica, Telecomunicações e  
Informática

Ano 2024/2025

**Report - Fase 1**

**14 de Novembro de 2024**

**P4 - Grupo 4**

Fábio Franco (119826)

Ricardo Domingues (119521)

## Números Mecnográficos

Os números mecnográficos utilizados ao longo do projeto são 119826 e 119521, sendo:

- $x_1 \rightarrow 1$
- $x_2 \rightarrow 9$
- $x_3 \rightarrow 8$
- $x_4 \rightarrow 2$
- $x_5 \rightarrow 6$
- $x_6 \rightarrow 1$
- $x_7 \rightarrow 9$
- $x_8 \rightarrow 5$
- $x_9 \rightarrow 2$
- $x_{10} \rightarrow 1$

Endereços IP utilizados ao longo do projeto:

	<b>Calendar Inc</b>	<b>Horoscope Inc</b>
<b>Public IPv4(sub) Network</b>	203.128.191.128/25	203.012.059.0/25
<b>Private IPv4 Network</b>	172.26.012.0/23	172.22.012.0/23
<b>Global IPv4 Network</b>	2002:A198:BC26::/48	2002:A125:BC91::/48

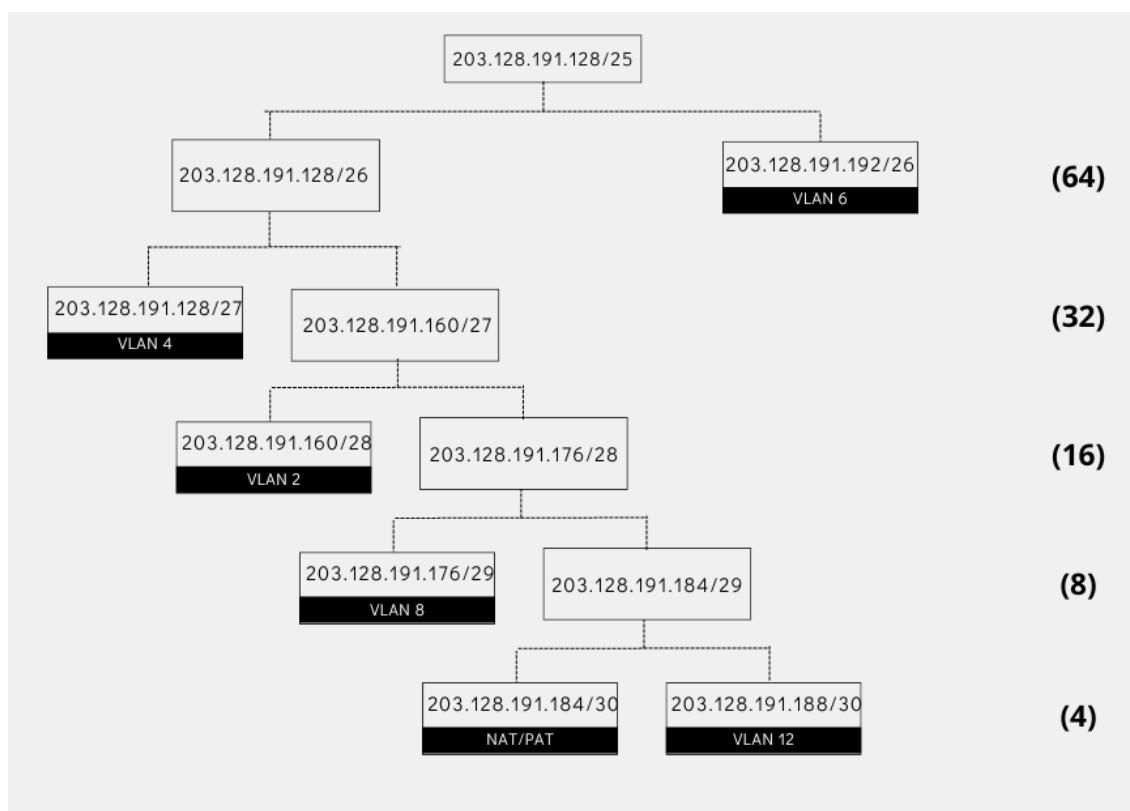
Tabela 1: Endereços IP utilizados

## Public IPv4

### Calendar Inc

	Máscara	Rede	Endereços Disponíveis	Broadcast	Default Gateway
NAT/PAT	30	203.128.191.184	203.128.191.185 a 203.128.191.187	—	—
VLAN2	28	203.128.191.160	203.128.191.162 a 203.128.191.174	203.128.191.175	203.128.191.161
VLAN4	27	203.128.191.128	203.128.191.130 a 203.128.191.158	203.128.191.159	203.128.191.129
VLAN6	26	203.128.191.192	203.128.191.194 a 203.128.191.254	203.128.191.255	203.128.191.193
VLAN8	29	203.128.191.176	203.128.191.178 a 203.128.191.182	203.128.191.183	203.128.191.177
VLAN12	30	203.128.191.188	203.128.191.190	203.128.191.191	203.128.191.189

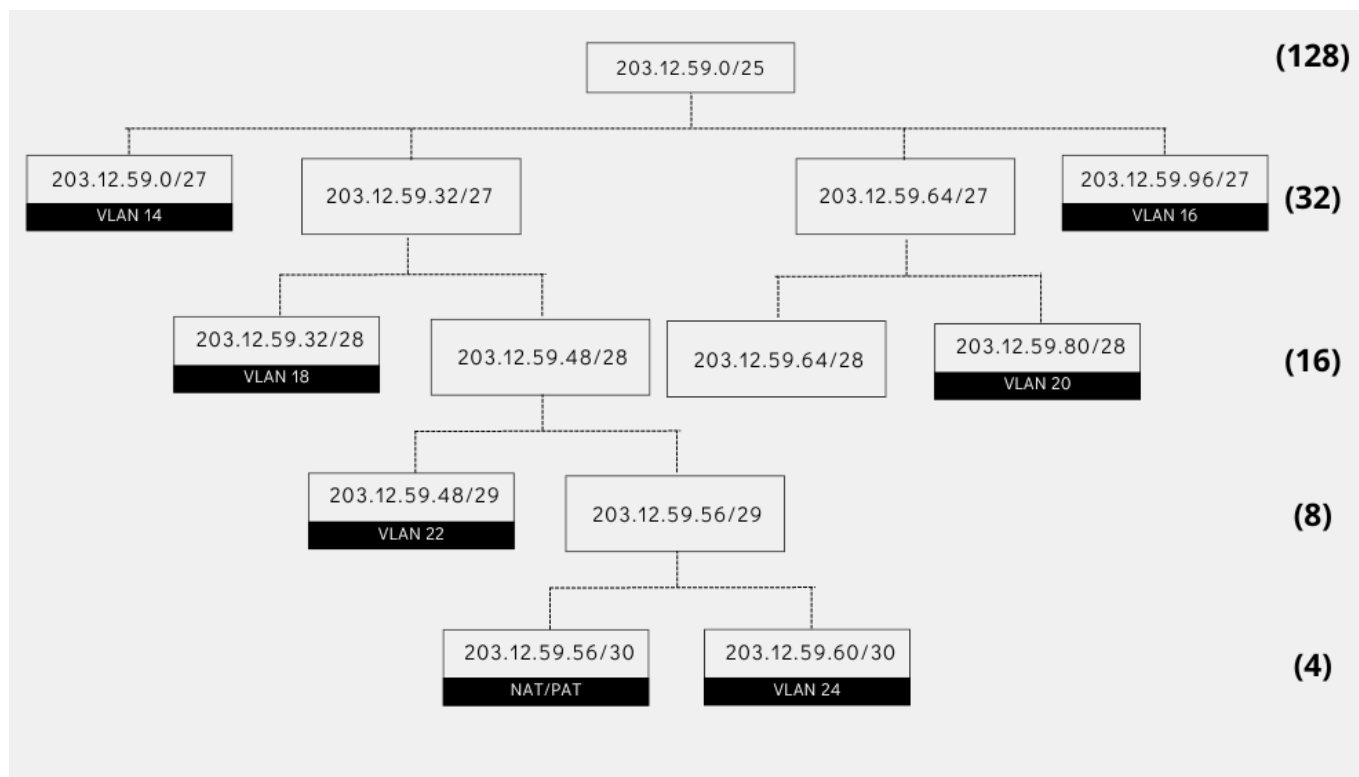
Tabela 2: Atribuição do IPv4 Público para Calendar Inc



## Horoscope Inc

	Máscara	Rede	Endereços Disponíveis	Broadcast	Default Gateway
NAT/PAT	30	203.12.59.56	203.12.59.57 a 203.12.59.59	—	—
VLAN14	27	203.12.59.0	203.12.59.2 a 203.12.59.30	203.12.59.31	203.12.59.1
VLAN16	27	203.12.59.96	203.12.59.98 a 203.12.59.126	203.12.59.127	203.12.59.97
VLAN18	28	203.12.59.32	203.12.59.34 a 203.12.59.46	203.12.59.47	203.12.59.33
VLAN20	28	203.12.59.80	203.12.59.82 a 203.12.59.94	203.12.59.95	203.12.59.81
VLAN22	29	203.12.59.48	203.12.59.50 a 203.12.59.54	203.12.59.55	203.12.59.49
VLAN24	30	203.12.59.60	203.12.59.62	203.12.59.63	203.12.59.61

Tabela 3: Atribuição do IPv4 Público para Horoscope Inc

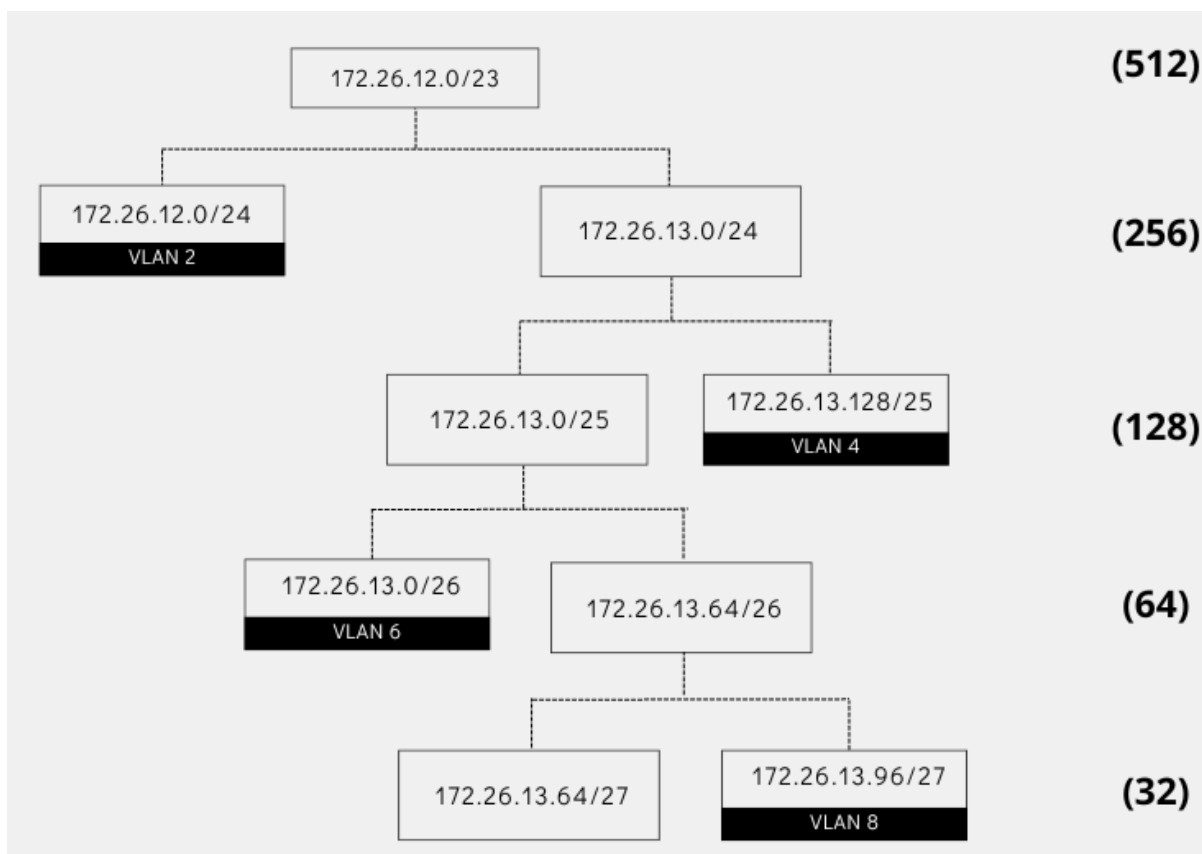


## Private IPv4

### Calendar Inc

	Máscara	Rede	Endereços Disponíveis	Broadcast	Default Gateway
VLAN2	24	172.26.12.0	172.26.12.2 a 172.26.12.254	172.26.12.255	172.26.12.1
VLAN4	25	172.26.13.128	172.26.13.130 a 172.26.13.254	172.26.13.255	172.26.13.129
VLAN6	26	172.26.13.0	172.26.13.2 a 172.26.13.62	172.26.13.63	172.26.13.1
VLAN8	27	172.26.13.96	172.26.13.98 a 172.26.13.126	172.26.13.127	172.26.13.97
VLAN12	—	—	—	—	—

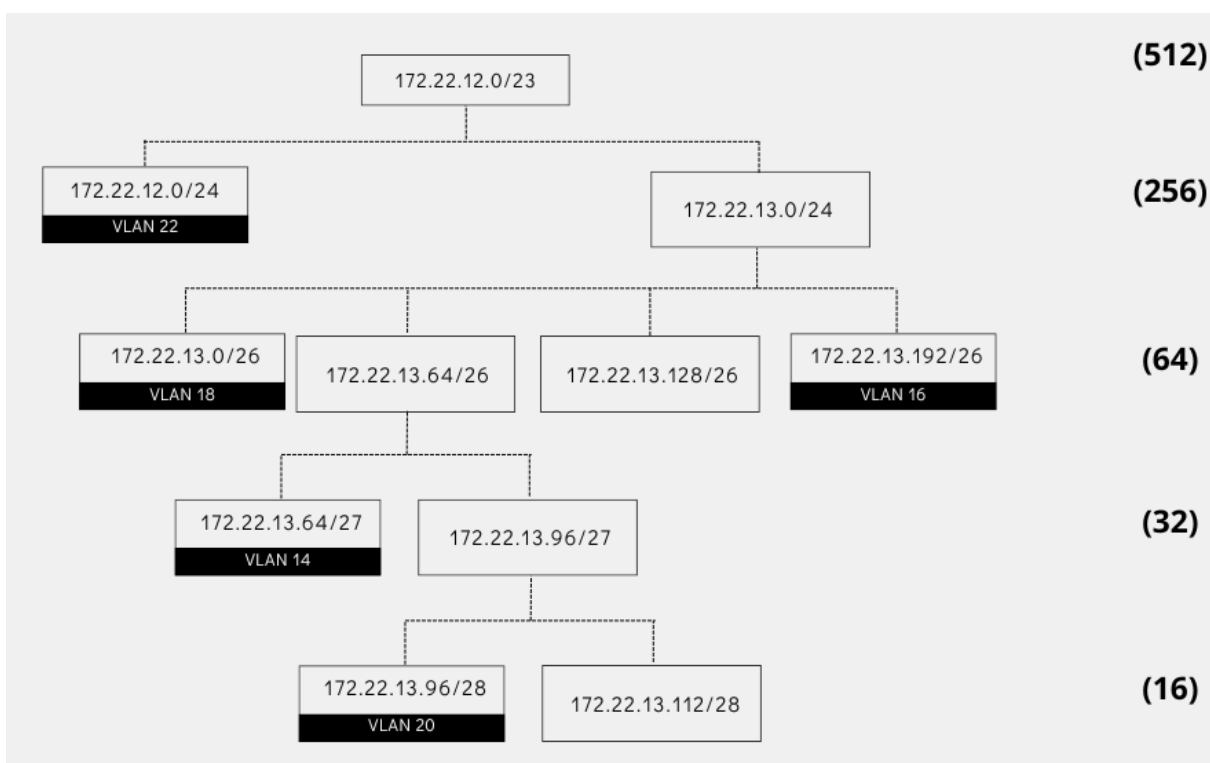
Tabela 4: Atribuição do IPv4 Privado para Calendar Inc



## Horoscope Inc

	Máscara	Rede	Endereços Disponíveis	Broadcast	Default Gateway
VLAN14	27	172.22.13.64	172.22.13.66 a 172.22.13.94	172.22.13.95	172.22.13.65
VLAN16	26	172.22.13.192	172.22.13.194 a 172.22.13.254	172.22.13.255	172.22.13.193
VLAN18	26	172.22.13.0	172.22.13.2 a 172.22.13.62	172.22.13.63	172.22.13.1
VLAN20	28	172.22.13.96	172.22.13.98 a 172.22.13.110	172.22.13.111	172.22.13.97
VLAN22	24	172.22.12.0	172.22.12.2 a 172.22.12.254	172.22.12.255	172.22.12.1
VLAN24	—	—	—	—	—

Tabela 5: Atribuição do IPv4 Privado para Horoscope Inc

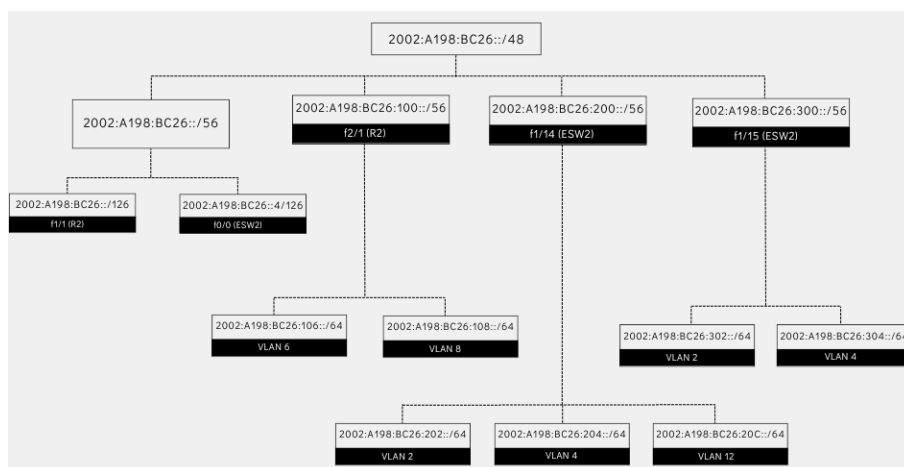


## Global IPv6

### Calendar Inc

Interface	Rede Interface	VLAN	Rede VLAN	Endereços Disponíveis
f1/1 (R2)	2002:A198:BC26::/126	—	—	—
f0/0 (ESW2)	2002:A198:BC26::4/126	—	—	—
f2/1 (R2)	2002:A198:BC26:100::/56	6	2002:A198:BC26:106::/64	2002:A198:BC26:106::1/64 2002:A198:BC26:106:FFFF:FFFF:FFFF:FFFF/64 <sup>a</sup>
		8	2002:A198:BC26:108::/64	2002:A198:BC26:108::/64 2002:A198:BC26:108:FFFF:FFFF:FFFF:FFFF/64 <sup>a</sup>
f1/14 (ESW2)	2002:A198:BC26:200::/56	2	2002:A198:BC26:202::/64	2002:A198:BC26:202::1/64 2002:A198:BC26:202:FFFF:FFFF:FFFF:FFFF/64 <sup>a</sup>
		4	2002:A198:BC26:204::/64	2002:A198:BC26:204::1/64 2002:A198:BC26:204:FFFF:FFFF:FFFF:FFFF/64 <sup>a</sup>
		12	2002:A198:BC26:20C::/64	2002:A198:BC26:20C::1/64 2002:A198:BC26:20C:FFFF:FFFF:FFFF:FFFF/64 <sup>a</sup>
f1/15 (ESW2)	2002:A198:BC26:300::/56	2	2002:A198:BC26:302::/64	2002:A198:BC26:302::1/64 2002:A198:BC26:302:FFFF:FFFF:FFFF:FFFF/64 <sup>a</sup>
		4	2002:A198:BC26:304::/64	2002:A198:BC26:304::1/64 2002:A198:BC26:304:FFFF:FFFF:FFFF:FFFF/64 <sup>a</sup>

Tabela 6: Atribuição do IPv6 Global para Calendar Inc



## Horoscope Inc

Interface	Rede Interface	VLAN	Rede VLAN	Endereços Disponíveis
f1/0 (R1)	2002:A125:BC91::/126	—	—	—
f0/0 (ESW1)	2002:A125:BC91::4/126	—	—	—
f2/0 (R1)	2002:A125:BC91:100::/56	14	2002:A125:BC91:10E::/64	2002:A125:BC91:10E::1/64 2002:A125:BC91:10E:FFFF:FFFF:FFFF:FFFF/64 a
		16	2002:A125:BC91:110::/64	2002:A125:BC91:110::1/64 2002:A125:BC91:110:FFFF:FFFF:FFFF:FFFF/64 a
		24	2002:A125:BC91:118::/64	2002:A125:BC91:118::1/64 2002:A125:BC91:118:FFFF:FFFF:FFFF:FFFF/64 a
f1/13 (ESW1)	2002:A125:BC91:200::/56	18	2002:A125:BC91:212::/64	2002:A125:BC91:212::1/64 2002:A125:BC91:212:FFFF:FFFF:FFFF:FFFF/64 a
		20	2002:A125:BC91:214::/64	2002:A125:BC91:214::1/64 2002:A125:BC91:214:FFFF:FFFF:FFFF:FFFF/64 a
		22	2002:A125:BC91:216::/64	2002:A125:BC91:216::1/64 2002:A125:BC91:216:FFFF:FFFF:FFFF:FFFF/64 a
f1/14 (ESW1)	2002:A125:BC91:300::/56	20	2002:A125:BC91:314::/64	2002:A125:BC91:314::1/64 2002:A125:BC91:314:FFFF:FFFF:FFFF:FFFF/64 a
f1/15 (ESW1)	2002:A125:BC91:400::/56	18	2002:A125:BC91:412::/64	2002:A125:BC91:412::1/64 2002:A125:BC91:412:FFFF:FFFF:FFFF:FFFF/64 a

Tabela 7: Atribuição do IPv6 Global para Horoscope Inc

