

Fundamentos de Redes

Mini-Projeto

Subnetwork/VLAN		IPv4(Public)	IPv4(Private)	IPv6
VLAN Marketing		200.111.190.0/26	10.110.0.0/24	2001:82:0:0::/64
VLAN DMZ		200.111.190.64/26	10.110.1.0/24	2001:82:0:1::/64
VLAN Datacenter		200.111.190.128/26	10.110.2.0/24	2001:82:0:2::/64
VLAN Admin		200.111.190.192/28	10.110.3.0/24	2001:82:0:3::/64
NAT/PAT		200.111.190.208/28	-	-
VLAN Design		200.111.190.224/29	10.110.4.0/24	2001:82:0:4::/64
VLAN Research		-	10.110.5.0/24	2001:82:0:5::/64
Ligações P2P	Router 1 - SWL3 C1	-	10.110.6.0/30	2001:82:0:6::/126
	Router 1 - SWL3 C2	-	10.110.6.4/30	2001:82:0:6::4/126
	Router A - SWL3 C2	-	10.110.6.8/30	2001:82:0:6::8/126
	SWL3 C1 - SWL3 C2	-	10.110.6.12/30	2001:82:0:6::12/126

Nos endereços IPv4 Públicos dividimos em 64 endereços públicos para os 48 PCs da VLAN Marketing, 64 para os 55 PCs da VLAN DMZ, 16 para os 9 PCs da VLAN Admin, 8 para os 5 PCs da VLAN Design e 16 para os 11 necessários da NAT/PAT.

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Device	Interface	IPv4-Private & Public	IPv6
SWL3 C1	F0/0 To Router 1	10.110.6.1/30	2001:82:0:6::/126
	F1/0 To SWL3 C2	10.110.6.13/30	2001:82:0:6::12/126
	F1/1 To SWL3 F1	Trunk	Trunk
	F1/2 To SWL3 F2	Trunk	Trunk
	F1/3 To Datacenter	200.111.190.129/26 10.110.2.1/24	2001:82:0:2::/64
	F1/4 To DMZ	200.111.190.65/26 10.110.1.1/24	2001:82:0:1::/64
	VLAN Design	200.111.190.225/26 10.110.4.1/24	2001:82:0:4::/64
	VLAN Marketing	200.111.190.1/26 10.110.0.1/24	2001:82:0:0::/64
	VLAN Admin	200.111.190.193/26 10.110.3.1/24	2001:82:0:3::/64
	VLAN Research	10.110.5.1/24	2001:82:0:5::/64

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Device	Interface	IPv4 addresses	IPv6
SWL3 C2	F1/0 To Router A	10.110.6.9/30	2001:82:0:6::8/126
	F1/1 To Router 1	10.110.6.5/30	2001:82:0:6::4/126
	F1/2 To SWL3 C1	10.110.6.14/30	2001:82:0:6::13/126
	F1/3 To SWL3 F1	Trunk	Trunk
	F1/4 To SWL3 F2	Trunk	Trunk
	VLAN Design	200.111.190.226/26 10.110.4.2/24	2001:82:0:4::1/64
	VLAN Marketing	200.111.190.2/26 10.110.0.2/24	2001:82:0:0::1/64
	VLAN Admin	200.111.190.194/26 10.110.3.2/24	2001:82:0:3::1/64
	VLAN Research	10.110.5.2/24	2001:82:0:5::1/64

Device	Interface	IPv4 addresses	IPv6
Router 1	F0/0 SWL3 C1	10.110.6.2/30	2001:82:0:6::5/126
	F0/1 SWL3 C2	10.110.6.6/30	2001:82:0:6::9/126
	F1/0 ISP	100.0.0.1	3000:A:A:A::1/64

Device	Interface	IPv4 addresses	IPv6
Router A	F0/0 To Old Building	192.168.0.1/20	-
	F1/0 To SWL3 C2	10.110.6.10/30	2001:82:0:6::9/126

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