

## ANEXO 1 - Documentação – Trabalho 1 Práticas de Endereçamento/Roteamento

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NN: 54(hex)

Sub-Rede	IPv4*		IPv6*
	Endereço da sub-rede	Máscara sub-rede / (Prefixo sub-rede)	Endereço da sub-rede
LAN0	200.200.84.0	255.255.255.192 (/26)	2001:0DB8:ACAD:5400::/64
LAN1	200.200.84.64	255.255.255.224 (/27)	2001:0DB8:ACAD:5401::/64
LAN2	200.200.84.96	255.255.255.224 (/27)	2001:0DB8:ACAD:5402::/64
WAN1	200.200.84.128	255.255.255.252 (/30)	2001:0DB8:ACAD:54FF::1:0/112
WAN2	200.200.84.132	255.255.255.252 (/30)	2001:0DB8:ACAD:54FF::2:0/112
WAN3	200.200.84.136	255.255.255.252 (/30)	2001:0DB8:ACAD:54FF::3:0/112

Quadro 1: Sub-redes

## Topologia 1

Tabela de Endereçamento				
Dispositivo	Interface	IPv4	Máscara de subrede	IPv4 Gateway
		IPv6 / Prefixo (GUA)		IPv6 Gateway
		IPv6 / Prefixo (LLA)		
PC0.1	NIC	200.200.84.1	255.255.255.192	200.200.84.62
		2001:db8:acad:5400::1/64		FE80::1
		EUI-64		
PC0.2	NIC	200.200.84.2	255.255.255.192	200.200.84.62
		2001:db8:acad:5400::2/64		FE80::1
		EUI-64		
PC1.1	NIC	200.200.84.65	255.255.255.224	200.200.84.94
		2001:db8:acad:5401::1/64		FE80::1
		EUI-64		

PC1.2	NIC	200.200.84.66	255.255.255.224	200.200.84.94
		2001:db8:acad:5401::2/64		FE80::1
		EUI-64		
S1	SVI	200.200.84.61	255.255.255.192	200.200.84.62
S2	SVI	200.200.84.93	255.255.255.224	200.200.84.94
R1	Fa0/0	200.200.84.94	255.255.255.224	---
		2001:db8:acad:5401::94/64		---
		FE80::1 link-local		---
R1	Fa0/1	200.200.84.62	255.255.255.192	---
		2001:db8:acad:5400::62/64		---
		FE80::1 link-local		---

R1 – Tabela de Roteamento				
IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
C	200.200.84.0 (LAN0)	255.255.255.192	0.0.0.0	Fa0/1
C	200.200.84.64 (LAN1)	255.255.255.224	0.0.0.0	Fa0/0
IPv6				
Tipo	Rede de Destino / Prefixo	Next Hop		Interface Saída
C	2001:0db8:acad:5400::/64 (LAN0)	::0		Fa0/1
C	2001:0db8:acad:5401::/64 (LAN1)	::0		Fa0/0

## Topologia 2

Tabela de Endereçamento				
Dispositivo	Interface	IPv4	Máscara de subrede	IPv4 Gateway
		IPv6 / Prefixo (GUA)		IPv6 Gateway
		IPv6 / Prefixo (LLA)		
PC0.1	NIC	200.200.84.1	255.255.255.192	200.200.84.62
		2001:db8:acad:5400::1/64		FE80::1
		EUI-64		
PC0.2	NIC	200.200.84.2	255.255.255.192	200.200.84.62
		2001:db8:acad:5400::2/64		FE80::1
		EUI-64		

PC1.1	NIC	200.200.84.65	255.255.255.224	200.200.84.94
		2001:db8:acad:5401::1/64		FE80::1
		EUI-64		
PC1.2	NIC	200.200.84.66	255.255.255.224	200.200.84.94
		2001:db8:acad:5401::2/64		FE80::1
		EUI-64		
S1	SVI	200.200.84.61	255.255.255.192	200.200.84.62
S2	SVI	200.200.84.93	255.255.255.224	200.200.84.94
R1	Fa0/0	200.200.84.129	255.255.255.252	---
		2001:0db8:acad:54FF::1:1/112		---
		EUI-64		---
R1	Fa0/1	200.200.84.62	255.255.255.192	---
		2001:db8:acad:5400::62/64		---
		FE80::1 link-local		---
R2	Fa0/0	200.200.84.130	255.255.255.252	---
		2001:0db8:acad:54FF::1:2/112		---
		EUI-64		---
R2	Fa0/1	200.200.84.94	255.255.255.224	---
		2001:db8:acad:5401::94/64		---
		FE80::1 link-local		---

R1 – Tabela de Roteamento				
IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
C	200.200.84.0 (LAN0)	255.255.255.192	0.0.0.0	Fa0/1
R	200.200.84.64 (LAN1)	255.255.255.224	200.200.84.130	Fa0/0
C	200.200.84.128 (WAN1)	255.255.255.252	0.0.0.0	Fa0/0
IPv6				
Tipo	Rede de Destino / Prefixo		Next Hop	Interface Saída
C	2001:0db8:acad:5400::/64 (LAN0)		::0	Fa0/1
S	2001:0db8:acad:5401::/64 (LAN1)		2001:0db8:acad:54FF::1:2	Fa0/0
C	2001:0db8:acad:54FF::1.0/112 (WAN1)		::0	Fa0/0

R2 – Tabela de Roteamento				
IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
R	200.200.84.0 (LAN0)	255.255.255.192	200.200.84.129	Fa0/0
C	200.200.84.64 (LAN1)	255.255.255.224	0.0.0.0	Fa0/1
C	200.200.84.128 (WAN1)	255.255.255.252	0.0.0.0	Fa0/0
IPv6				
Tipo	Rede de Destino / Prefixo	Next Hop		Interface Saída
R	2001:0db8:acad:5400::/64 (LAN0)	2001:0db8:acad:54FF::1:1		Fa0/0
C	2001:0db8:acad:5401::/64 (LAN1)	::0		Fa0/1
C	2001:0db8:acad:54FF::1.0/112 (WAN1)	::0		Fa0/0

### Topologia 3

Tabela de Endereçamento				
Dispositivo	Interface	IPv4	Máscara de subrede	IPv4 Gateway
		IPv6 / Prefixo (GUA)		IPv6 Gateway
		IPv6 / Prefixo (LLA)		
PC0.1	NIC	200.200.84.1	255.255.255.192	200.200.84.62
		2001:db8:acad:5400::1/64		FE80::1
		EUI-64		
PC0.2	NIC	200.200.84.2	255.255.255.192	200.200.84.62
		2001:db8:acad:5400::2/64		FE80::1
		EUI-64		
PC1.1	NIC	200.200.84.65	255.255.255.224	200.200.84.94
		2001:db8:acad:5401::1/64		FE80::1
		EUI-64		
PC1.2	NIC	200.200.84.66	255.255.255.224	200.200.84.94
		2001:db8:acad:5401::2/64		FE80::1
		EUI-64		
S1	SVI	200.200.84.61	255.255.255.192	200.200.84.62
S2	SVI	200.200.84.93	255.255.255.224	200.200.84.94
R1	Fa0/0	200.200.84.129	255.255.255.252	---
		2001:0db8:acad:54FF::1:1/112		---
		EUI-64		---

R1	Fa0/1	200.200. <b>84</b> .62	255.255.255.192	---
		2001:db8:acad: <b>5400</b> ::62/64		---
		FE80::1 link-local		---
R2	Fa0/0	200.200. <b>84</b> .134	255.255.255.252	---
		2001:0db8:acad: <b>54FF</b> ::2:2/112		---
		EUI-64		---
R2	Fa0/1	200.200. <b>84</b> .94	255.255.255.224	---
		2001:db8:acad: <b>5401</b> ::94/64		---
		FE80::1 link-local		---
R3	Fa0/0	200.200. <b>84</b> .133	255.255.255.252	---
		2001:0db8:acad: <b>54FF</b> ::2:1/112		---
		EUI-64		---
R3	Fa0/1	200.200. <b>84</b> .130	255.255.255.252	---
		2001:0db8:acad: <b>54FF</b> ::1:2/112		---
		EUI-64		---

### R1 – Tabela de Roteamento

IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
C	200.200. <b>84</b> .0 ( <b>LAN0</b> )	255.255.255.192	0.0.0.0	Fa0/1
R	200.200. <b>84</b> .64 ( <b>LAN1</b> )	255.255.255.224	200.200. <b>84</b> .130	Fa0/0
C	200.200. <b>84</b> .128 ( <b>WAN1</b> )	255.255.255.252	0.0.0.0	Fa0/0
R	200.200. <b>84</b> .132 ( <b>WAN2</b> )	255.255.255.252	200.200. <b>84</b> .130	Fa0/0
IPv6				
Tipo	Rede de Destino / Prefixo	Next Hop		Interface Saída
C	2001:db8:acad: <b>5400</b> ::/64 ( <b>LAN0</b> )	::0		Fa0/1
R	2001:db8:acad: <b>5401</b> ::/64 ( <b>LAN1</b> )	2001:db8:acad: <b>54FF</b> ::1:2		Fa0/0
C	2001:db8:acad: <b>54FF</b> ::1:0/112 ( <b>WAN1</b> )	::0		Fa0/0
R	2001:db8:acad: <b>54FF</b> ::2:0/112 ( <b>WAN2</b> )	2001:db8:acad: <b>54FF</b> ::1:2		Fa0/0

### R2 – Tabela de Roteamento

IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
R	200.200. <b>84</b> .0 ( <b>LAN0</b> )	255.255.255.192	200.200. <b>84</b> .133	Fa0/0
C	200.200. <b>84</b> .64 ( <b>LAN1</b> )	255.255.255.224	0.0.0.0	Fa0/1
R	200.200. <b>84</b> .128 ( <b>WAN1</b> )	255.255.255.252	200.200. <b>84</b> .133	Fa0/0
C	200.200. <b>84</b> .132 ( <b>WAN2</b> )	255.255.255.252	0.0.0.0	Fa0/0

IPv6			
Tipo	Rede de Destino / Prefixo	Next Hop	Interface Saída
R	2001:db8:acad: <b>5400</b> ::/64 (LAN0)	2001:db8:acad: <b>54FF</b> ::2:1	Fa0/0
C	2001:db8:acad: <b>5401</b> ::/64 (LAN1)	::0	Fa0/1
R	2001:db8:acad: <b>54FF</b> ::1:0/112 (WAN1)	2001:db8:acad: <b>54FF</b> ::2:1	Fa0/0
C	2001:db8:acad: <b>54FF</b> ::2:0/112 (WAN2)	::0	Fa0/0

R3 – Tabela de Roteamento				
IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
R	200.200. <b>84</b> .0 (LAN0)	255.255.255.192	200.200. <b>84</b> .129	Fa0/1
R	200.200. <b>84</b> .64 (LAN1)	255.255.255.224	200.200. <b>84</b> .134	Fa0/0
C	200.200. <b>84</b> .128 (WAN1)	255.255.255.252	0.0.0.0	Fa0/1
C	200.200. <b>84</b> .132 (WAN2)	255.255.255.252	0.0.0.0	Fa0/0
IPv6				
Tipo	Rede de Destino / Prefixo	Next Hop	Interface Saída	
R	2001:db8:acad: <b>5400</b> ::/64 (LAN0)	2001:db8:acad: <b>54FF</b> ::1:1	Fa0/1	
R	2001:db8:acad: <b>5401</b> ::/64 (LAN1)	2001:db8:acad: <b>54FF</b> ::2:2	Fa0/0	
C	2001:db8:acad: <b>54FF</b> ::1:0/112 (WAN1)	::0	Fa0/1	
C	2001:db8:acad: <b>54FF</b> ::2:0/112 (WAN2)	::0	Fa0/0	

## Topologia 4

Tabela de Endereçamento				
Dispositivo	Interface	IPv4	Máscara de subrede	IPv4 Gateway
		IPv6 / Prefixo (GUA)		IPv6 Gateway
		IPv6 / Prefixo (LLA)		
PC0.1	NIC	200.200.84.1	255.255.255.192	200.200.84.62
		2001:db8:acad:5400::1/64		FE80::1
		EUI-64		
PC0.2	NIC	200.200.84.2	255.255.255.192	200.200.84.62
		2001:db8:acad:5400::2/64		FE80::1
		EUI-64		
PC1.1	NIC	200.200.84.65	255.255.255.224	200.200.84.94
		2001:db8:acad:5401::1/64		FE80::1
		EUI-64		
PC1.2	NIC	200.200.84.66	255.255.255.224	200.200.84.94
		2001:db8:acad:5401::2/64		FE80::1
		EUI-64		

PC2.1	NIC	200.200. <b>84</b> .97	255.255.255.224	200.200. <b>84</b> .126
		2001:db8:acad: <b>5402</b> ::2/64		FE80::1
		EUI-64		
PC2.2	NIC	200.200. <b>84</b> .98	255.255.255.224	200.200. <b>84</b> .126
		2001:db8:acad: <b>5402</b> ::2/64		FE80::1
		EUI-64		
S1	SVI	200.200. <b>84</b> .61	255.255.255.192	200.200. <b>84</b> .62
S2	SVI	200.200. <b>84</b> .93	255.255.255.224	200.200. <b>84</b> .94
S3	SVI	200.200. <b>84</b> .125	255.255.255.224	200.200. <b>84</b> .126
R1	Fa0/0	200.200. <b>84</b> .129	255.255.255.252	---
		2001:0db8:acad: <b>54FF</b> ::1:1/112		---
		EUI-64		---
R1	Fa0/1	200.200. <b>84</b> .62	255.255.255.192	---
		2001:db8:acad: <b>5400</b> ::62/64		---
		FE80::1 link-local		---
R2	Fa0/0	200.200. <b>84</b> .130	255.255.255.252	---
		2001:0db8:acad: <b>54FF</b> ::1:2/112		---
		EUI-64		---
R2	Fa0/1	200.200. <b>84</b> .94	255.255.255.224	---
		2001:db8:acad: <b>5401</b> ::94/64		---
		FE80::1 link-local		---
R2	Fa1/0	200.200. <b>84</b> .126	255.255.255.224	---
		2001:db8:acad: <b>5402</b> ::126/64		---
		FE80::1 link-local		---

R1 – Tabela de Roteamento				
IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
C	200.200. <b>84</b> .0 (LAN0)	255.255.255.192	0.0.0.0	Fa0/1
R	200.200. <b>84</b> .64 (LAN1)	255.255.255.224	200.200. <b>84</b> .130	Fa0/0
R	200.200. <b>84</b> .96 (LAN2)	255.255.255.224	200.200. <b>84</b> .130	Fa0/0
C	200.200. <b>84</b> .128 (WAN1)	255.255.255.252	0.0.0.0	Fa0/0

IPv6			
Tipo	Rede de Destino / Prefixo	Next Hop	Interface Saída
C	2001:db8:acad: <b>5400</b> ::/64 (LAN0)	::0	Fa0/1
R	2001:db8:acad: <b>5401</b> ::/64 (LAN1)	2001:db8:acad: <b>54FF</b> ::1:2	Fa0/0
R	2001:db8:acad: <b>5402</b> ::/64 (LAN2)	2001:db8:acad: <b>54FF</b> ::1:2	Fa0/0
C	2001:db8:acad: <b>54FF</b> ::1:0/112 (WAN1)	::0	Fa0/0

R2 – Tabela de Roteamento				
IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
R	200.200. <b>84</b> .0 (LAN0)	255.255.255.192	200.200. <b>84</b> .129	Fa0/0
C	200.200. <b>84</b> .64 (LAN1)	255.255.255.224	0.0.0.0	Fa0/1
C	200.200. <b>84</b> .96 (LAN2)	255.255.255.224	0.0.0.0	Fa1/0
C	200.200. <b>84</b> .128 (WAN1)	255.255.255.252	0.0.0.0	Fa0/0
IPv6				
Tipo	Rede de Destino / Prefixo	Next Hop	Interface Saída	
R	2001:db8:acad: <b>5400</b> ::/64 (LAN0)	2001:db8:acad: <b>54FF</b> ::1:1	Fa0/0	
C	2001:db8:acad: <b>5401</b> ::/64 (LAN1)	::0	Fa0/1	
C	2001:db8:acad: <b>5402</b> ::/64 (LAN2)	::0	Fa1/0	
C	2001:db8:acad: <b>54FF</b> ::1:0/112 (WAN1)	::0	Fa0/0	

## Topologia 5

Tabela de Endereçamento				
Dispositivo	Interface	IPv4	Máscara de subrede	IPv4 Gateway
		IPv6 / Prefixo (GUA)		IPv6 Gateway
		IPv6 / Prefixo (LLA)		
PC0.1	NIC	200.200.84.1	255.255.255.192	200.200.84.62
		2001:db8:acad:5400::1/64		FE80::1
		EUI-64		
PC0.2	NIC	200.200.84.2	255.255.255.192	200.200.84.62
		2001:db8:acad:5400::2/64		FE80::1
		EUI-64		
PC1.1	NIC	200.200.84.65	255.255.255.224	200.200.84.94
		2001:db8:acad:5401::1/64		FE80::1
		EUI-64		
PC1.2	NIC	200.200.84.66	255.255.255.224	200.200.84.94
		2001:db8:acad:5401::2/64		FE80::1
		EUI-64		



PC2.1	NIC	200.200. <b>84</b> .97	255.255.255.224	200.200. <b>84</b> .126
		2001:db8:acad: <b>5402</b> ::1/64		FE80::1
		EUI-64		
PC2.2	NIC	200.200. <b>84</b> .98	255.255.255.224	200.200. <b>84</b> .126
		2001:db8:acad: <b>5402</b> ::2/64		FE80::1
		EUI-64		
S1	SVI	200.200. <b>84</b> .61	255.255.255.192	200.200. <b>84</b> .62
S2	SVI	200.200. <b>84</b> .93	255.255.255.224	200.200. <b>84</b> .94
S3	SVI	200.200. <b>84</b> .125	255.255.255.224	200.200. <b>84</b> .126
R1	Fa0/0	200.200. <b>84</b> .129	255.255.255.252	---
		2001:0db8:acad: <b>54FF</b> ::1:1/112		---
		EUI-64		---
R1	Fa0/1	200.200. <b>84</b> .138	255.255.255.252	---
		2001:0db8:acad: <b>54FF</b> ::3:2/112		---
		EUI-64		---
R1	Fa1/0	200.200. <b>84</b> .62	255.255.255.192	---
		2001:db8:acad: <b>5400</b> ::62/64		---
		FE80::1 link-local		---
R2	Fa0/0	200.200. <b>84</b> .133	255.255.255.252	---
		2001:db8:acad: <b>54FF</b> ::2:1/112		---
		EUI-64		---
R2	Fa0/1	200.200. <b>84</b> .130	255.255.255.252	---
		2001:db8:acad: <b>54FF</b> ::1:2/112		---
		EUI-64		---
R2	Fa1/0	200.200. <b>84</b> .94	255.255.255.224	---
		2001:db8:acad: <b>5401</b> ::94/64		---
		FE80::1 link-local		---

R3	Fa0/0	200.200.84.137	255.255.255.252	---
		2001:db8:acad:54FF::3:1/112		---
		EUI-64		---
R3	Fa0/1	200.200.84.134	255.255.255.252	---
		2001:db8:acad:54FF::2:2/112		---
		EUI-64		---
R3	Fa1/0	200.200.84.126	255.255.255.224	---
		2001:db8:acad:5402::126/64		---
		FE80::1 link-local		---

## Roteamento – Rotas Estáticas com base no menor número de saltos

R1 – Tabela de Roteamento				
IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
C	200.200.84.0 (LAN0)	255.255.255.192	0.0.0.0	Fa1/0
R	200.200.84.64 (LAN1)	255.255.255.224	200.200.84.130	Fa0/0
R	200.200.84.96 (LAN2)	255.255.255.224	200.200.84.137	Fa0/1
C	200.200.84.128 (WAN1)	255.255.255.252	0.0.0.0	Fa0/0
R	200.200.84.128 (WAN2)	255.255.255.252	200.200.84.130	Fa0/0
C	200.200.84.128 (WAN3)	255.255.255.252	0.0.0.0	Fa0/1
IPv6				
Tipo	Rede de Destino / Prefixo	Next Hop		Interface Saída
C	2001:db8:acad:5400::/64 (LAN0)	::0		Fa1/0
R	2001:db8:acad:5401::/64 (LAN1)	2001:db8:acad:54FF::1:2		Fa0/0
R	2001:db8:acad:5402::/64 (LAN2)	2001:db8:acad:54FF::3:1		Fa0/1
C	2001:db8:acad:54FF::1:0/112 (WAN1)	::0		Fa0/0
R	2001:db8:acad:54FF::2:0/112 (WAN2)	2001:db8:acad:54FF::1:2		Fa0/0
C	2001:db8:acad:54FF::3:0/112 (WAN3)	::0		Fa0/1

R2 – Tabela de Roteamento				
IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
R	200.200.84.0 (LAN0)	255.255.255.192	200.200.84.129	Fa0/1
C	200.200.84.64 (LAN1)	255.255.255.224	0.0.0.0	Fa1/0
R	200.200.84.96 (LAN2)	255.255.255.224	200.200.84.134	Fa0/0
C	200.200.84.128 (WAN1)	255.255.255.252	0.0.0.0	Fa0/1
C	200.200.84.128 (WAN2)	255.255.255.252	0.0.0.0	Fa0/0
R	200.200.84.128 (WAN3)	255.255.255.252	200.200.84.134	Fa0/0
IPv6				
Tipo	Rede de Destino / Prefixo	Next Hop		Interface Saída
R	2001:db8:acad:5400::/64 (LAN0)	2001:db8:acad:54FF::1:1		Fa0/1
C	2001:db8:acad:5401::/64 (LAN1)	::0		Fa1/0
R	2001:db8:acad:5402::/64 (LAN2)	2001:db8:acad:54FF::2:2		Fa0/0
C	2001:db8:acad:54FF::1:0/112 (WAN1)	::0		Fa0/1
C	2001:db8:acad:54FF::2:0/112 (WAN2)	::0		Fa0/0
R	2001:db8:acad:54FF::3:0/112 (WAN3)	2001:db8:acad:54FF::2:2		Fa0/0

### R3 – Tabela de Roteamento

#### IPv4

Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
R	200.200.84.0 (LAN0)	255.255.255.192	200.200.84.138	Fa0/0
R	200.200.84.64 (LAN1)	255.255.255.224	200.200.84.133	Fa0/1
C	200.200.84.96 (LAN2)	255.255.255.224	0.0.0.0	Fa1/0
R	200.200.84.128 (WAN1)	255.255.255.252	200.200.84.138	Fa0/0
C	200.200.84.128 (WAN2)	255.255.255.252	0.0.0.0	Fa0/1
C	200.200.84.128 (WAN3)	255.255.255.252	0.0.0.0	Fa0/0

#### IPv6

Tipo	Rede de Destino / Prefixo	Next Hop	Interface Saída
R	2001:db8:acad:5400::/64 (LAN0)	2001:db8:acad:54FF::3:2	Fa0/0
R	2001:db8:acad:5401::/64 (LAN1)	2001:db8:acad:54FF::1:1	Fa0/1
C	2001:db8:acad:5402::/64 (LAN2)	::0	Fa1/0
R	2001:db8:acad:54FF::1:0/112 (WAN1)	2001:db8:acad:54FF::3:2	Fa0/0
C	2001:db8:acad:54FF::2:0/112 (WAN2)	::0	Fa0/1
C	2001:db8:acad:54FF::3:0/112 (WAN3)	::0	Fa0/0