

Ministério da Educação Universidade Tecnológica Federal do Paraná - Câmpus Pato Branco Departamento Acadêmico de Informática

Curso de Engenharia de Computação





Documentação – Trabalho 1 Práticas de Endereçamento/Roteamento

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Link para vídeo 1:

https://drive.google.com/file/d/1fKPzroClj2WUdDSkjorjveFmPAa-

nxUE/view?usp=sharing

Link para vídeo 2:

https://drive.google.com/file/d/1O1d2ERKzsYEMfChLYLJLJe-

Kp3d8lUfs/view?usp=sharing

Tabela de Endereçamento					
Dispositivo	Interface	IPv4	IPv4 Máscara de subrede		
		IPv6 / Pre	fixo (GUA)	IPv6 Gateway	
		IPv6 / Pre	efixo (LLA)		
PC0	NIC	172.29.20.2	255.255.0.0	172.29.1.10	
		2001:db8:a	cad::20:2/64	FE80::1:10	
		EUI-64			
PC1	NIC	172.29.30.3	255.255.0.0	172.29.1.10	
		2001:db8:a	FE80::1:10		
		EU	II-64	-	
PC2	NIC	10.1.1.1	255.255.255.0	10.1.1.254	
		2001:db8:acad:1::1/64		FE80:1::254	
	-	EU			
PC3	NIC	10.1.1.2 255.255.255.0		10.1.1.254	
		2001:db8:acad:1::2/64		FE80:1::254	
		EU	II-64	-	

S1	SVI	172.29.1.253	255.255.0.0	172.29.1.10
S2	SVI	10.1.1.253	255.255.255.0	10.1.1.254
R1	Fa0/0	10.1.1.254	255.255.255.0	-
		2001:db8:ac	-	
		FE80:1::254		-
R1	Fa0/1	172.29.1.10	255.255.0.0	-
		2001:db8:a	-	
		FE80::1:10		-

R1 – Tabela de Roteamento								
	IPv4							
Tipo	Rede de Destino	Más	scara	Next Hop	Interface Saída			
С	172.29.0.0	255.2	255.0.0	-	Fa0/1			
С	10.1.1.0	255.255.255.0		-	Fa0/0			
		IP	v6					
Tipo	Rede de Destino /	Prefixo		Next Hop	Interface Saída			
С	2001:db8:acad::	/64		-	Fa0/1			
С	2001:db8:acad:1:	::/64		-	Fa0/0			

Tabela de Endereçamento					
Dispositivo	Interface IPv4 Máscara de subrede		IPv4 Gateway		
		IPv6 / Pre	IPv6 Gateway		
		IPv6 / Pre			
PC0	NIC	172.29.20.2	255.255.0.0	172.29.1.10	
		2001:db8:acad::20:2/64		FE80::1:10	
		EU			
PC1	NIC	172.29.30.3	255.255.0.0	172.29.1.10	

501	NUO				
PC1	NIC	172.29.30.3 255.255.0.0		172.29.1.10	
		2001:db8:a	acad::30:3/64	FE80::1:10	
		EU	JI-64		
PC2	NIC	10.1.1.1	255.255.255.0	10.1.1.254	
		2001:db8:	acad:1::1/64	FE80:1::254	
		EU	JI-64		
PC3	NIC	10.1.1.2	255.255.255.0	10.1.1.254	
		2001:db8:	acad:1::2/64	FE80:1::254	
		EU	JI-64		
S1	SVI	172.29.1.253	255.255.0.0	172.29.1.10	
S2	SVI	10.1.1.253	255.255.255.0	10.1.1.254	
R1	Fa0/0	192.168.1.1	255.255.255.252	-	
		2001:db8:a	-		
		EU	JI-64	-	
R1	Fa0/1	172.29.1.10	255.255.0.0	-	
		2001:db8:a	-		
		FE80	-		
R2	Fa0/0	192.168.1.2	255.255.255.252	-	
		2001:db8:acad:ff00::2/64		-	
		EU	JI-64	-	
R2	Fa0/1	10.1.1.254	255.255.255.0	-	
		2001:db8:acad:1::254		-	
		FE80	:1::254	-	

R1 – Tabela de Roteamento
IPv4

Tipo	Rede de Destino	Más	scara	Next Hop	Interface Saída			
С	172.20.0.0	255.2	255.0.0	0.0.0.0	Fa0/1			
С	192.168.1.0	255.25	5.255.252	0.0.0.0	Fa0/0			
S	10.1.1.0	255.25	55.255.0	192.168.1.0	Fa0/0			
	IPv6							
Tipo	Rede de Destino /	Prefixo		Next Hop	Interface Saída			
С	2001:db8:acad:	:/64		-	Fa0/1			
С	2001:db8:acad:ff00::/64		-		Fa0/0			
S	2001:db8:acad:1::/64		2001:0	b8:acad:ff00::2	Fa0/0			

	R2 – Tabela de Roteamento						
	IPv4						
Tipo	Rede de Destino	Más	scara	Next Hop	Interface Saída		
С	10.1.1.0	255.25	55.255.0	-	Fa0/1		
С	192.168.1.0	255.255.255.252		-	Fa0/0		
S	172.29.0.0	255.255.0.0		192.168.1.0	Fa0/0		
		IP	v6				
Tipo	Rede de Destino /	Prefixo		Next Hop	Interface Saída		
С	2001:db8:acad:1::/64			-	Fa0/1		
С	2001:db8:acad:ff00::/64			-	Fa0/0		
S	2001:db8:acad::	:/64	2001:c	db8:acad:ff00::1	Fa0/0		

Tabela de Endereçamento					
Dispositivo	Interface	IPv4	Máscara de subrede	IPv4 Gateway	
		IPv6 / Pref	fixo (GUA)	IPv6 Gateway	
		IPv6 / Pre	fixo (LLA)		
PC0	NIC	172.29.20.2	255.255.0.0	172.29.1.10	
		2001:db8:acad::20:2/64		FE80::1:10	
		EUI	-64		
PC1	NIC	172.29.30.3	255.255.0.0	172.29.1.10	
		2001:db8:acad::30:3/64		FE80::1:10	
		EUI-64			

PC2	NIC	10.1.1.1	255.255.255.0	10.1.1.254
		2001:db8:a	FE80:1::254	
		EU	II-64	
PC3	NIC	10.1.1.2	255.255.255.0	10.1.1.254
		2001:db8:a	acad:1::2/64	FE80:1::254
		EU	II-64	
S1	SVI	172.29.1.253	255.255.0.0	172.29.1.10
S2	SVI	10.1.1.253	255.255.255.0	10.1.1.254
R1	Fa0/0	192.168.1.1	255.255.255.252	-
		2001:db8:ad	cad:ff01::1/64	-
		EU	-	
R1	Fa0/1	172.29.1.10 255.255.0.0		-
		2001:db8:a	-	
		FE80	-	
R2	Fa0/0	192.168.2.2 255.255.252		-
		2001:db8:ad	-	
		EUI-64		-
R2	Fa0/1	10.1.1.254	255.255.255.0	-
		2001:db8:ad	-	
		FE80	:1::254	-
R3	Fa0/0	192.168.2.1 255.255.255.252		-
		2001:db8:ad	-	
		EUI-64		-
R3	Fa0/1	192.168.1.2	255.255.255.252	-

R3	Fa0/1	192.168.1.2	255.255.255.252	-
		2001:db8:ad	-	
		EUI-64		-

R1 – Tabela de Roteamento								
IPv4								
Tipo	Rede de Destino	Más	cara	Next Hop	Interface Saída			
С	172.29.0.0	255.2	55.0.0	•	Fa0/1			
С	192.168.1.0	255.255	.255.252	•	Fa0/0			
S	192.168.2.0	255.255	.255.252	192.168.1.2	Fa0/0			
S	10.1.1.0	255.25	5.255.0	192.168.1.2	Fa0/0			
		IP	v6					
Tipo	Rede de Destino /	Prefixo		Next Hop	Interface Saída			
С	2001:db8:acad::	:/64		-	Fa0/1			
С	2001:db8:acad:ff0	1::/64		-	Fa0/0			
S	2001:db8:acad:ff0	2::/64	2001:d	lb8:acad:ff01::2	Fa/00			
S	2001:db8:acad:1	::/64	2001:d	lb8:acad:ff01::2	Fa0/0			

	R2 – Tabela de Roteamento					
IPv4						
Tipo	Rede de Destino	Más	scara	Next Hop	Interface Saída	
С	10.1.1.0	255.25	5.255.0	_	Fa0/1	
С	192.168.2.0	255.255	.255.252	-	Fa0/0	
S	192.168.1.0	255.255.255.252		192.168.2.1	Fa0/0	
S	172.29.0.0	255.255.0.0		192.168.2.1	Fa0/0	
		IP	v6			
Tipo	Rede de Destino /	Prefixo		Next Hop	Interface Saída	
С	2001:db8:acad:1::/64		-		Fa0/1	
С	2001:db8:acad:ff02::/64		-		Fa0/0	
S	2001:db8:acad:ff01::/64		2001:db8:acad:ff02::1		Fa0/0	
S	2001:db8:acad::	:/64	2001:c	lb8:acad:ff02::1	Fa0/0	

	R3 – Tabela de Roteamento					
		IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída		
С	192.168.1.0	255.255.252	-	Fa0/1		
С	192.168.2.0	255.255.252	-	Fa0/0		
S	172.29.0.0	255.255.0.0	192.168.1.1	Fa0/1		

S	10.1.1.0	255.255.255.0	192.168.2.2	Fa0/0				
	IPv6							
Tipo	Rede de Destino / Pre	fixo	Next Hop	Interface Saída				
С	2001:db8:acad:ff01::/	64	-	Fa0/1				
С	2001:db8:acad:ff02::/	64	-	Fa0/0				
S	2001:db8:acad::/64	2001:	db8:acad:ff02::2	Fa0/1				
S	2001:db8:acad:1::/64	2001:	db8:acad:ff01::1	Fa0/0				

		Tabela de End	ereçamento		
Dispositivo Interface		IPv4 Máscara de subrede		IPv4 Gateway	
		IPv6 / Pre	fixo (GUA)	IPv6 Gateway	
		IPv6 / Pre	efixo (LLA)		
PC0	NIC	172.29.20.2	255.255.0.0	172.29.1.10	
		2001:db8:a	cad::20:2/64	FE80::1:10	
		EU	II-64		
PC1	NIC	172.29.30.3	255.255.0.0	172.29.1.10	
		2001:db8:a	cad::30:3/64	FE80::1:10	
		EU	II-64		
PC2	NIC	10.1.1.1	255.255.255.0	10.1.1.254	
		2001:db8:acad:1::1/64 EUI-64		FE80:1::254	
PC3	NIC	10.1.1.2	255.255.255.0	10.1.1.254	
		2001:db8:a	acad:1::2/64	FE80:1::254	
		EUI-64			
PC4	NIC	10.1.2.1	255.255.255.0	10.1.2.254	
		2001:db8:acad:2::1/64		FE80:2::254	
		EU	II-64		

PC5	NIC	10.1.2.2	255.255.255.0	10.1.2.254
	-	2001:db8:acad:2::2/64		FE80:2::254
		EUI-64		
S1	SVI	172.29.1.253	255.255.0.0	172.29.1.10
S2	SVI	10.1.1.253	255.255.255.0	10.1.1.254
S3	SVI	10.1.2.253	255.255.255.0	10.1.2.254
R1	Fa0/0	192.168.1.1	255.255.255.252	-
	-	2001:db8:a	cad:ff00::1/64	-
		El	JI-64	-
R1	Fa0/1	172.29.1.10	255.255.0.0	-
		2001:db8:acad::1:10/64		-
		FE80::1:10		-
R2	Fa0/0	192.168.1.2	255.255.255.252	-
		2001:db8:a	cad:ff00::2/64	-
		El	JI-64	-
R2	Fa0/1	10.1.1.254	255.255.255.0	-
	-	2001:db8:acad:1::254/64		-
		FE80:2::254		-
R2	Fa1/0	10.1.2.254	255.255.255.0	-
		2001:db8:a	cad:2::254/64	-
		FE80):2::254	-

R1 – Tabela de Roteamento					
	IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída	
С	172.29.0.0	255.255.0.0	-	Fa0/1	

C	192.168.1.0	255.255	.255.252	-	Fa0/0		
S	10.1.1.0	255.25	5.255.0	192.168.1.2	Fa0/0		
S	10.1.2.0	255.25	5.255.0	192.168.1.2	Fa0/0		
	IPv6						
Tipo	Rede de Destino / Prefixo			Next Hop	Interface		
_							
					Saída		
С	2001:db8:acad::	:/64		-	Saída Fa0/1		
C C	2001:db8:acad:: 2001:db8:acad:ff0			-			
C C S		0::/64	2001:c	- - lb8:acad:ff00::2	Fa0/1		

	DO Tabala da Datasmanta						
	R2 – Tabela de Roteamento						
		IP	v4				
Tipo	Rede de Destino	Más	scara	Next Hop	Interface		
					Saída		
С	10.1.1.0	255.25	55.255.0	0.0.0.0	Fa0/1		
С	10.1.2.0	255.25	55.255.0	0.0.0.0	Fa1/0		
С	192.168.1.0	255.255	5.255.252	0.0.0.0	Fa0/0		
S	172.29.0.0	255.2	255.0.0	192.168.1.1	Fa0/0		
		IP	v6				
Tipo	Rede de Destino /	Prefixo		Next Hop	Interface		
-					Saída		
С	2001:db8:acad:1::/64			-	Fa0/1		
С	2001:db8:acad:2	::/64		-	Fa1/0		
С	2001:db8:acad:ff0	0::/64		-	Fa0/0		
S	2001:db8:acad::	:/64	2001:d	lb8:acad:ff00::1	Fa0/0		

Tabela de Endereçamento						
Dispositivo	Interface	IPv4 Máscara de subrede		IPv4 Gateway		
		IPv6 / Pre	Pv6 / Prefixo (GUA) IPv			
		IPv6 / Pre	fixo (LLA)			
PC0	NIC	172.29.20.2	255.255.0.0	172.29.1.10		
		2001:db8:acad::20:2/64		FE80::1:10		
		EU	I-64			
PC1	NIC	172.29.30.3	255.255.0.0	172.29.1.10		
		2001:db8:acad::30:3/64		FE80::1:10		

NIC	172.29.30.3	255.255.0.0	172.29.1.10
	2001:db8:a	cad::30:3/64	FE80::1:10
	EU	II-64	
NIC	10.1.1.1	255.255.255.0	10.1.1.254
	2001:db8:a	acad:1::1/64	FE80::1:254
	EU	II-64	
NIC	10.1.1.2	255.255.255.0	10.1.1.254
	2001:db8:a	acad:1::2/64	FE80::1:254
	EU	II-64	
NIC	10.1.2.1	255.255.255.0	10.1.2.254
	2001:db8:a	acad:2::1/64	FE80:2::254
	EU	II-64	
NIC	10.1.2.2	255.255.255.0	10.1.2.254
	2001:db8:a	2001:db8:acad:2::2/64	
	EUI-64		
SVI	172.29.1.253	255.255.0.0	172.29.1.10
SVI	10.1.1.253	255.255.255.0	10.1.1.254
SVI	10.1.2.253	255.255.255.0	10.1.2.254
Fa0/0	192.168.3.2	255.255.255.252	-
	2001:db8:acad:ff03::1/64		-
	EUI-64		-
Fa0/1	192.168.1.1	255.255.255.252	-
	2001:db8:ad	cad:ff01::1/64	-
	EU	II-64	-
Fa1/0	172.29.1.10	255.255.0.0	-
	NIC NIC NIC SVI SVI SVI Fa0/0	NIC 10.1.1.1 NIC 10.1.1.1 2001:db8:a EU NIC 10.1.1.2 2001:db8:a EU NIC 10.1.2.1 2001:db8:a EU NIC 10.1.2.2 2001:db8:a EU SVI 172.29.1.253 SVI 10.1.2.253 SVI 10.1.2.253 SVI 10.1.2.253 Fa0/0 192.168.3.2 2001:db8:a EU Fa0/1 192.168.1.1 2001:db8:a EU Fa0/1 192.168.1.1	2001:db8:acad::30:3/64 EUI-64 NIC

R1 Fa1/0 172.29.1.10 255.255.0.0 - 2001:db8:acad::1:10/64 -	
FE80::1:10 -	
R2 Fa0/0 192.168.1.2 255.255.252 -	
2001:db8:acad:ff01::2/64 -	
EUI-64 -	
R2 Fa0/1 192.168.2.1 255.255.252 -	
2001:db8:acad:ff02::1/64	
EUI-64	
R2 Fa1/0 10.1.1.254 255.255.255.0 -	
2001:db8:acad:1::254/64 -	
FE80::1:254 -	
R3 Fa0/0 192.168.2.2 255.255.252 -	
2001:db8:acad:ff02::2/64 -	
EUI-64 -	
R3 Fa0/1 192.168.3.1 255.255.252 -	
2001:db8:acad:ff03::1/64	
EUI-64	
R3 Fa1/0 10.1.2.254 255.255.255.0 -	
2001:db8:acad:2::254/64 -	

R1 – Tabela de Roteamento IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída
С	172.29.0.0	255.255.0.0	-	Fa1/0

C	192.168.1.0	255.255	5.255.252	-	Fa0/1		
С	192.168.3.0	255.255	.255.252	-	Fa0/0		
S	10.1.1.0	255.25	5.255.0	192.168.1.2	Fa0/1		
S	10.1.2.0	255.25	5.255.0	192.168.3.1	Fa0/0		
S	192.168.2.0	255.255	.255.252	192.168.1.2	Fa0/1		
	IPv6						
Tipo	Rede de Destino / Prefixo		Next Hop		Interface		
Tipo	Rede de Destillo /	PIEIIXU		MEXI HOP	IIIICIIacc		
Про	Rede de Destillo /	Pielixo		Next Hop	Saída		
С	2001:db8:acad:			-			
		:/64		- -	Saída		
С	2001:db8:acad:	:/64		- - -	Saída Fa1/0		
C C	2001:db8:acad: 2001:db8:acad:ff0	:/64)1::/64)3::/64		- - - - b8:acad:ff01::2	Saída Fa1/0 Fa0/1		
C C	2001:db8:acad: 2001:db8:acad:ff0 2001:db8:acad:ff0	::/64 01::/64 03::/64	2001:d	- - -	Saída Fa1/0 Fa0/1 Fa0/0		

R2 – Tabela de Roteamento						
IPv4						
Tipo	Rede de Destino	Máscara		Next Hop	Interface Saída	
С	10.1.1.0	255.255.255.0		-	Fa1/0	
С	192.168.2.0	255.255	5.255.252	-	Fa0/1	
С	192.168.1.0	255.255	5.255.252	-	Fa0/0	
S	172.29.0.0	255.2	255.0.0	192.168.1.1	Fa0/0	
S	10.1.2.0	255.255.255.0		192.168.2.2	Fa0/1	
S	192.168.3.0	255.255.255.252		192.168.2.2	Fa0/1	
	IPv6					
Tipo	Rede de Destino / Prefixo			Next Hop	Interface Saída	
С	2001:db8:acad:1::/64			-	Fa1/0	
С	2001:db8:acad:ff02::/64		-		Fa0/1	
С	2001:db8:acad:ff01::/64		-		Fa0/0	
S	2001:db8:acad::/64		2001:db8:acad:ff01::1		Fa0/0	
S	2001:db8:acad:2::/64		2001:db8:acad:ff02::2		Fa0/1	
S	2001:db8:acad:ff03::/64		2001:db8:acad:ff02::2		Fa0/1	

	R3 – Tabela de Roteamento				
	IPv4				
Tipo	Rede de Destino	Máscara	Next Hop	Interface Saída	
С	10.1.2.0	255.255.255.0	-	Fa1/0	
С	192.168.2.0	255.255.255.0	-	Fa0/0	
С	192.168.3.0	255.255.255.252	-	Fa0/1	
S	172.29.0.0	255.255.0.0	192.168.3.2	Fa0/1	
S	10.1.1.0	255.255.255.0	192.168.2.1	Fa0/0	
S	192.168.1.0	255.255.255.252	192.168.3.2	Fa0/1	
	IPv6				

Tipo	Rede de Destino / Prefixo	Next Hop	Interface Saída
С	2001:db8:acad:2::/64	-	Fa1/0
С	2001:db8:acad:ff02::/64	-	Fa0/0
С	2001:db8:acad:ff03::/64	-	Fa0/1
S	2001:db8:acad::/64	2001:db8:acad:ff03::2	Fa0/1
S	2001:db8:acad:1::/64	2001:db8:acad:ff02::1	Fa0/0
S	2001:db8:acad:ff01::/64	2001:db8:acad:ff03::2	Fa0/1