Computer Networks: Lab Record

Week: 2

Experiment 2: Single Router Configuration

Create a network consisting of 2 PCs connected to a Router and observe the behaviour of data transmission using router.

Observation:

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	Lab : 2
	Aim > To create a network consisting of 2 pc s connected to a routes. This connected
1913	will help observe the behavious of deats transmission using router.
1 1 1	Topology:
to a	Topology: 10.0.0.1 20.0.0.1 Enote PT Router O Router O
Attion . Altho	the service due to the service of th
Lagina	PC-PT PC0 PC1 20.0.0.10
	PCO: connected to router's interface Ea 0/0 using a cross- over scale.
	Defautt Orateuray > 10.0.0.1
2.	PC1: connected to the vouter's viterfore Fa 110 using a cross- over scale. IP address: 20.0.0.10
	Default bratemay: 20.0.0.1



	Bafna Gold— 9 out Date: 2024 Page: 9
	tabi 2 contracto c
3.	Router:
right	Interface to 0/0 connected to 1PCo
	Interface Fa 1/0 connected to PC1
er TIT	I Paddress of Ea 0/0: 10.0.0.1
1 - 177	IP address of Ea 0/0: 10.0.0.1 IP address of Ea 1/0: 20.0.0.1
SI SIST	Perfect Com 20-00-10: Lutter = 20 time = 00
TTIES.	20 feet 1, mm 20.0.0.10; hiter = 32 time = 0.
?	Procedure: Two PCs (Pco and PCs) are
	assigned with IP address 20.0.0. 20 &
140 o = 1	20.0.0.20 & gatemay 10.0.0.1 & 20.0.0.1.
Thomas .	respectively 1
	Minimum I Com Michael F 200
©	Open CLI in router & enter the
	following !
	Router > enable
	Router # config terminal
	Router (config) # interface factethernet 0/0
	Router (config - 4) # ip address 10.0.0.1 255.0.0.0
	Router (vonfig + interface factethernet 0/0 Router (vonfig - if) # ip address 10.0.0.1 255.0.0.0 Router (vonfig - if) # no shutdown. exit
	enit
	Router (config)# interface fastethernet 1/0 Router (config-if)#if address 20.00.1 255.0.0.0 Router (config-if)# no shutdown.
	Router (config-if) # if address 20.0.0.1 255.0.0.0
	Router (config-if) # no shutdown.
	enit
6	D : 10
3	ting another system or interface from the
	Ring another system or interface from the command prompt of PCO or PCI using
	command prompt.
	> pring 20.0.0.10.

=> Observation: Command prompt gives output Pinging 20.0.0.10 with 32 bytes of data. Reply from 20.0.0.10: bytes = 32 time=0 ms TTL=127.

Reply from 20.0.0.10: bytes=32 time=0 ms TTL=127.

Reply from 20.0.0.10: bytes=32 time=0 ms TTL=128.

Reply from 20.0.0.10: bytes=32 time=0 ms TTL=128.

Reply from 20.0.0.10: bytes=32 time=0 ms TTL=127. Ring statistics for 20.0.0.10: Parkets: sent = 4, Received = 4, Lost 20 (0% loss) Approximate wound trip times is milli-seconds: Minimum = 0 ms, Manimum = 2 ms, Average = 0 ms. Average = 0 ms. Routes > enable apterrettetial entertal Reuter leaking - El # Boddier 18-0.0.1 30 Roches Crarfielth interface fortetheriding (moderation co + of Pag 60 Pag

Screenshots:







