HM: TO constluct a VLAN and make the pcs community - late among a VLAN Topology: 1841 Fa 0/0 Router 3 192.168.20.1 Fa0/5 Fao Fal PC-PT PC3 PC-PT PC-PT PC-PT 192.168.20.3 PCO pcz PLL 192-168-20-2 192.168.1.2 192.168-1.3 create a topology as given above using 4 pcs, 1 switch (switch - 2960) and a souter (nouter-1841) Step 2: configure the Ip addresses for pc's as 192.168.1.2 & 192.168.1.3 for pc0 and pc1 and 192.168.20.2 & 192.168.20.3 for pl2 and pl3 sespe - ctively. Step 3: configure the sp addless for souter evering following commands Router > enable Roule # config t Router (config) # interfale Fastethernet %

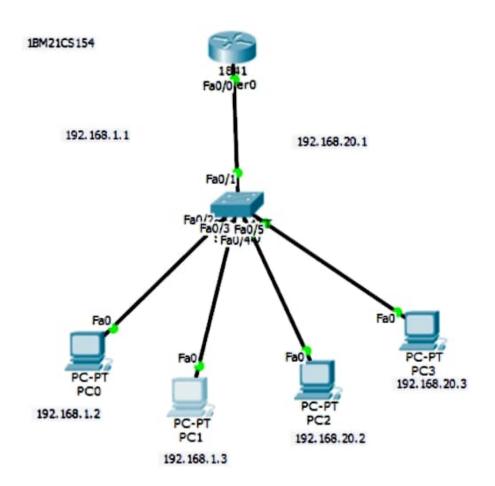
lab-08

Router (config-ig) # ip address Router (config 1-is) # no shut Router (config-ig) # exit. 192.168.1.1 252.222.222.0 Step 4: Set the gateway as 192.168.11 for pco and pc1 and 192.168.20.1 for pc2 and pc3 suspectively. Step 5: In the switch, go to VLAN data base and clearly add new VLAN database by giving a name ex-newland steps: Now, go to Interface ja old in the switch and make it thunk, In VLAN everything need to be selected. This allows different VLAN's over single link called thunk. Sty7: GO TO louter and select VLAN dalabase. Enter The number & name of VLAN created before, goto CLE in the south and give the following command Routel (VLAN)# exit APPLY completed Exiting Router # config t Routel (config) # interpare jastethernet 0/0.1 Router (config-subib) # encapsulation dot19, 2 Router (config-subib) # ip address 192.168.20.1 250.20.20. Router (config-subib) # no shut Router (config-subic) # exit In the switch make ja 0/3 and ja 0/4 and select VLAN and number as no given for VLAN while creating (here 2) New, ping from pco to pc3, PCO: (9n command prompt) pc> ping 192.168.20.2 pinging 192.168.20.2 with 32 byter of data:

Reply from 192.168.20.2: bytes=32 time = 4ms TTL=127 192.168,20.2; bytes=32 Reply from timezons TTL=127 bytes = 32 time = 3 ms TIL=127 192,168,20,2: Reply from time=1mg TTL=127 bytes = 32 192.168.20.2: Reply from phy statistics for 192.168.20.2; parkets: sent 24, perieved 24, rolt 50 (0.1/ 10N) Approximate round thip times in milli-seconds;

Avg = 2 ms

minimum = 0 ms, maximum = 3 ms 98/8/23



Command Prompt

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Packet Tracer PC Command Line 1.0
PC>ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Reply from 192.168.20.3: bytes=32 time=0ms TTL=127

Reply from 192.168.20.3: bytes=32 time=0ms TTL=127

Reply from 192.168.20.3: bytes=32 time=0ms TTL=127

Reply from 192.168.20.3: bytes=32 time=1ms TTL=127

Ping statistics for 192.168.20.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>
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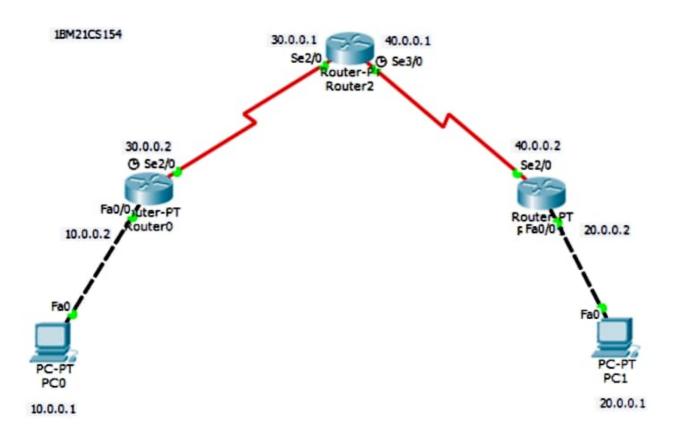
To demonstrate the TTL/Life of a packet 30.0.0.2 Routers. 10.0.0.2 20.0.0.2 Fagor Rower-PT Route - PT Rowell Rowld 3 20.0.0.1 10.0.0.1 P'L-PT PC-PT PLO PCI procedule: Step1: create a topology with 2 pcs and 3 routersas shown above. step2; configure the Sp address as 10,0,0,1 and 20,0,0,1 for pco and pc1 suspectively. Step 3: configure the IP addresses for souters default soi Routero; Routel # config t Router (config) #/ Interface factethernet 0/0 Router (configty) # ip address 10.0.0.2 255.0.0.0 Router (config-ig) # exist no shut Router (config-1) # exit Router (config)# interface social 2/0 255.0.0.0 Router (config-1) # ip addless 30.0.0.2 Router (conjug-ij) # no shut Rowled (veryig-ij) # exit

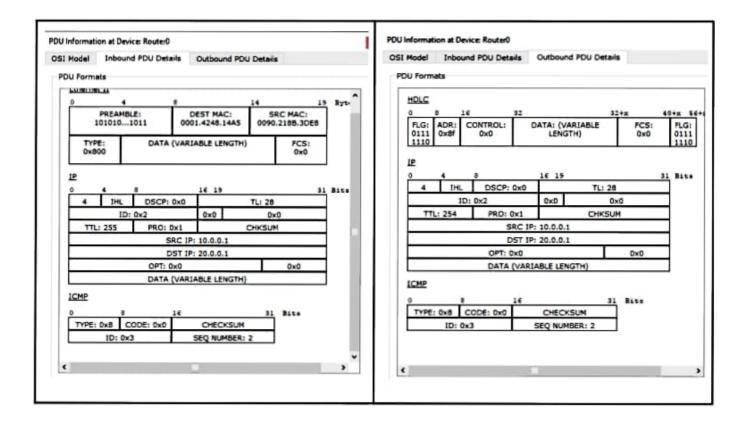
steps: click on PDU during every langer to see the Inbound of outbound PDU details, use capture button to capture every langer.

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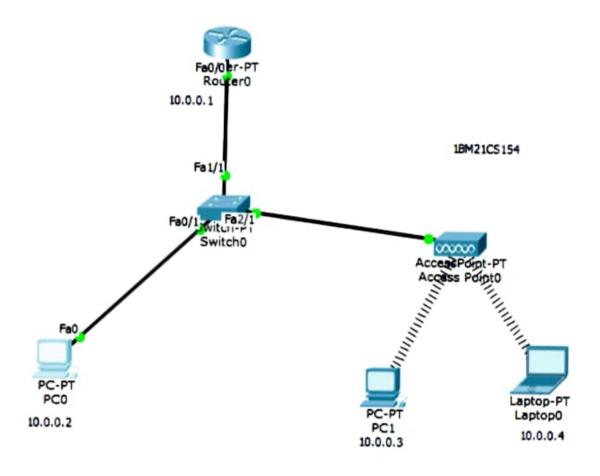
Observation Observ





Aim: To consecut a WLAN and make the node, communicate wirelessly. Router-PT Router Fa0/0 Accespoint -PT Laptop-PT PC-PT Laptop1 PL1 10.0.0.3 10.0.0.4 10.0.0.2 procedule: Step1: Cleate the topology as shown above with PCs, Switch, houter, Access point and laptop. Stepz: configure pco and soutce as normally done. org 3: configure the Accesspoints, go to portioned give SSIDname. (any name) Stop 4: Select WEP and give any 10 digit flex key. (1234767890 rule). Configure pc1 and laptop with wileless standards. teps. Switch of the device. Dlag the existing pT-HOST-NM-IAM to the component listed in the LHS. Drag WMP300N wildless interpare to the empty post. Switch on the device.

step6: In the config tab a new wireless interface would have been added . Now configure, SSIP, WEP, WEP key, IP adoless and Gotelbay (as normally done) to the device. Final topology on scelen; Fally Rowell-PT 10.0.0. Pouter 0 Fall Accompaint -PT was milling afternation Fall Switcho 10.00012 Laptop-PT PL-PT Thesealthin: 4
Such expr. 4 PUL New, ping from pco to pc1 In peo command prompt, pc>ping 10.0.0.3 enging 10.0.013 with 32 bytes of data; Reply 2 from 10.0.0.3; bytes= 32 time= 47 ms pay from 10.0.0.3; bytel=32 time=32 my Reply from 10:0:0:3: byter=32 time=35 ms TTL=128 Reply from 10.0.0.3; bytes=31 time=3ms TTL=128 ping statistics for 10.0.0.3; parkets: sent = 4, Reviewed = LL, Lost =0 (0% loss) Applonimate round-leip time in milli-seconds: minimum 2 3 ms, Maximum = 47 ms, Avelage = 29 ms



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PC>ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data:

Reply from 10.0.0.4: bytes=32 time=34ms TTL=128

Reply from 10.0.0.4: bytes=32 time=22ms TTL=128

Reply from 10.0.0.4: bytes=32 time=12ms TTL=128

Reply from 10.0.0.4: bytes=32 time=9ms TTL=128

Ping statistics for 10.0.0.4:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 9ms, Maximum = 34ms, Average = 19ms

PC>
```