PRACTICALE - 11

AIM:Simulate Static Routing configuring using custo Packet Tracer

Static routes are the routes you namually add to the router's routing table. The process of adding static routes to the routing table is known as static routing. Setting up a practice lab:
Create a packet tracer lab as shown

Create a packet tracer lab as shown or dowload the following pre-created lab and load it on Packet Tracer.

Router R1: GigabitEthernet0/0: 192.168.1.1 GigabitEthernet0/1; 192.168.2.1 Switch S1: FastEthernet0/1: 192.168.1.0/27 PC1: 192.168.1.11 PC2: 192.168.1.12 PC3: 192.168.1.13 PC4: 192.168.1.14 PC5: 192.168.1.15 FastEthernet0/2: 192.168.2.0/27 PC1: 192.168.2.11 PC2: 192.168.2.12 PC3: 192.168.2.13 PC4: 192.168.2.14 PC5: 192.168.2.15 Router R2: FastEthernet0/0: 192.168.3.1 FastEthernet0/1: 192.168.4.1 Switch S2: FastEthernet0/1: 192.168.3.0/27 PC1: 192.168.3.11 PC2: 192.168.3.12 PC3: 192.168.3.13 PC4: 192.168.3.14 PC5: 192.168.3.15 FastEthernet0/2: 192.168.4.0/27 PC1: 192.168.4.11 PC2: 192.168.4.12

PC3: 192.168.4.13 PC4: 192.168.4.14 PC5: 192.168.4.15

The IP addressing for the network shown in the topology can be as follows:

Routers automatically harw their consented add routes includels. We only that 'are not for the included har into 1. available on the router's interfaces Verifying statie routing! On Router O, we configured 2 routes por hetwork 30.0.0.0 18. These rout es are via Routeire via Routere. We set the first route as the main route & the second route is the backup - the following link provides the configure - packet tracer lab of the above axample Packet tracer dab with static Routing configuration Deleting a static route. Juste the 'show ip route statue' command to print all static routes.

Note down in the Note down the route you want to delete.

Result -Thus the above experiment is experiment executed successfully. and the second of the part of the second of

AIM -Simulate RIP using use Parket tracer. Assign IP address to pu Double cliek Pa and dick Desktopmenn A and cliek 12 configuration Avergui 17 address to interface of routers. Double cliek Router O and cliek CLI to press Entres key to access the command Prompt of Router O. We need to configure 1P address and other parameters on interfaces before we could actually use them for routing. Interface mode is used to arrigin IP address and other parameters. Interface mode an be accessed from global configuration mode. Router > enable Router # configure terminal Enter configuration commands, one per line. Euter configuration End with CNTL1Z.
Router (config)#

From global configuration mode we can enter in interface mode trom there we can configure the interface. interface fast Ethernet 0/0 command is used to enter in unterface mode. ip address 10.0.1255.0.0.0 command will assign IP address to interface. no shutdown command will bring the interface up. exit command is used to return in global configuration mode. Router # show controllers serial 0/010. Interface Serial 0/0/0. Hardware is Power SUICC MPC860 DE V.35, clock rate: 2000000 Packet Tracer PC Command Line 1.0 Initial IP configuration Connected with IP Configuration Interface FastEthernetO Connection: (default port) Device Router0's Fa0/1 10.0.0.2/8 Link-local IPv6 Address FES0::260:705
IP Address 20.0.0.2
Subnet Mask 255.0.00 Fast Ethernet PC0 PC0's Fast Ethernet 10.0.0.1/8 Router0 Router2's S0/0/1 192.168.1.254/30 Router0 S0/0/1 Default Gateway..... 20.0.0.1 Routerl's S0/0/0 192.168.1.249/30 Router0 S0/0/0 PC>ping 10.0.0.2 Router0's S0/0/0 192 168 1.250/30 S0/0/0 Router1 Router2's S0/0/0 Pinging 10.0.0.2 with 32 bytes of data: 192.168.1.246/30 Router 1 S0/0/1 Router1's S0/0/1 192.168.1.245/30 Request timed out.

Reply from 10.0.0.2: bytes=32 time=3ms ITL=126

Reply from 10.0.0.2: bytes=32 time=3ms ITL=126

Reply from 10.0.0.2: bytes=32 time=3ms ITL=126 Router2 \$0/0/0 Router0's S0/0/1 192.168.1.253/30 S0/0/1 Router2 PC1's Fast Ethernet 20.0.0.1/30 Router2 Fa0/1 Router2's Fa0/1 20.0.0.2/30 PC1 Fast Ethernet Ping statistics for 10.0.0.2: Packets: Sent = 4, Received = 3, Lost = 1 Approximate round trip times in milli-seconds: Minimum = 3ms, Maximum = 3ms, Average = 3m Result:

Thus the above expresiment is executed become fully.