THE ME

Ain: 70 Simulate the Border Gateway protocol of

Description:

Borde Gorkway protocol (BGP) is the nouting protocol for the intent. Border Gateway protocol is used to exchange the nouting information for the intent and in the protocol is used between 1SP which are different Axer

The protocol can connect together any internetwork of automore more automore and arbitary topology. The only acquirement in that each As have aftern one moute that is able to num BGP and that is noute connect to at least one other As is BGP noute.

Bap's main function is to exchange network reactability Information with other Bap nystems. Border Galeway protocol Construction automorph systems graph based on the information exchanged between Bap mouters.



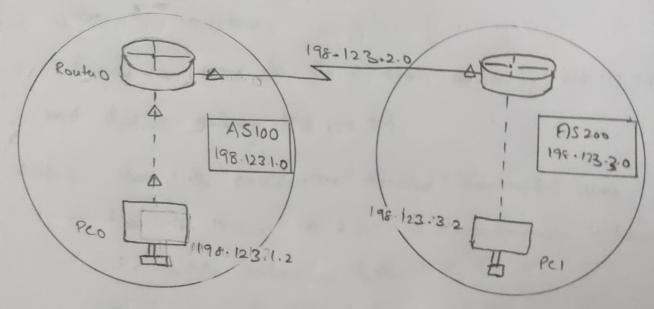




Procedure;



Step1: Construct a two networks Asloo and As200 and As200 and Connect them with a serial DTE cable on shown below.



There are 3 Autonomous systems which have spaddress or as AS 100 - 198. 123.1.0

AS 200 - 198. 123.3.0

Connection AS - 198. 123.20

The PCO hows of As 100 how the ip address 198.123.1.9

Step 2: Set the ip address to the PCO and PCI

9 As 100 and As 200 surpertisely.

click pc o and click mx tab > ip configuration and then conta ip addrew 198-123. 1.2 and click onto them it do automatically awigns substitute and Arign default getway has 198. 123. 1.1, and clock the window.

Repeat the same for PCI also- assign ip 198.123.3.2 and dyault gatway 198.122.3.1.

Step 3: Here, the packets are travelled I transmitted along blow the router and pe in an autonomous system I.e. within autonomous system

But we need to transmit the data blow the two Authornous systems. So, we need to establish a connectional blow autonomous systems.

Step 4: Click on the gouter and releat the config tas and content ip address for Browle 0 has 198.123.1.1. and Bouter 1 -> 198.123.3.1 and nowith them ar ON.

Steps: click on the souter and select the config and select the social 210 and enter ip address

and nother nouter in minal 210 without close. so, we need set ipaddress has 198. 123.2.2 and clock Rate as Alot set. Set the both rowless to on.

Stup 6: click on the south and relet the cli Tab
emter the below ammands.

firstly, we need to exit

CH terit

(Routu) (config) # Baya Lao noutu bgp 100 Poutu (config) # network 198.1283.1.0 Routu (config) # network 198.123.20

Route (unfig) # neighbor 198.123.2.2 sumote-as 200 Route (unfig) # neighbor 198.123.3.2 sumote-as 200 Route (unfig) # exit

Route O in configured with BGP Protocol.





Step 7: Configure Route 1 of AS 200. Wing below ammonds in CC of 2 outs 1.

(Route (contig) # Proute typ 200

Route (contig) # retwork 198.123.2.0

Route (contig) # network 198.123.3.0

Route (contig) # neighbor 198.123.2.1 sumoke-on 100

Route (contig) # neighbor 198.123.1.2 sumoke-on 100

Route (contig) # neighbor 198.123.1.2 sumoke-on 100

Route (contig) # exit.

Route 1 in also configured with Bap. protocol.

The packet Moon PCO of Aslow is suiced by Pc, of As 200 500