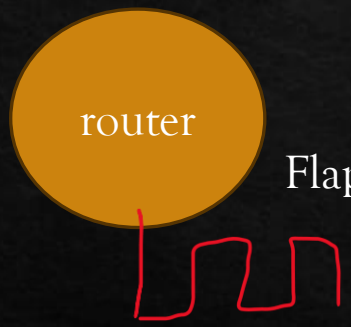
Junos OS

- Advantages of Junos OS

1) Robus , Modular OS
Divide the resources into segments and every process is done in its segment

2) Single Software
All products has single software train – Same configuration software – for easy management

3) Separation of control and forwarding



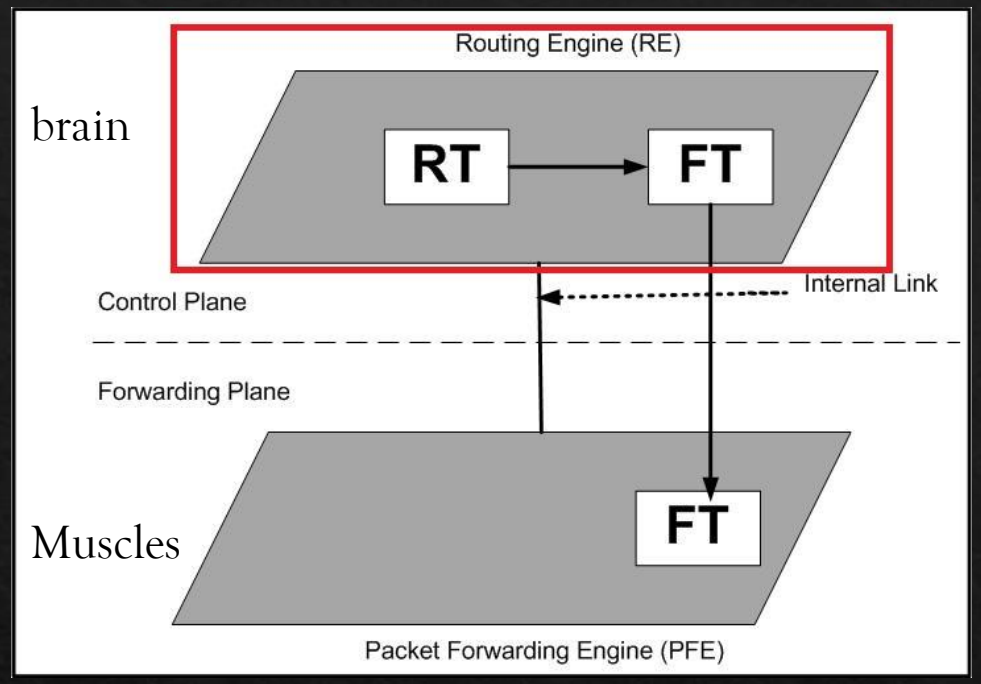
Flapping interface – Up and Down - This problem can Shut down the router

Routing protocols injects the data in RT

Internal link : protect RE from DDOS attack by limiting the transfer speed
Speed = 100 Mbps

Routing Engine Role (RE) :
1- Maintain Routing And Forwarding Tables (Process and save it)
2- Control and Monitor the Chassis
3- Manage the PFE

Packet Forwarding Engine Role (PFE) :
Layer 2 and 3 Forwarding



RT : Routing Table (has all possible paths)
FT : Forwarding Table (has the best path only)

Policing Vs Shaping

Policing : When data exceed the speed limit save the exceeded data in a Buffer and then Transfer it in FIFO
Shaping : When data exceed the speed limit drop the exceeded data

DSL Types :
ADSL Uploading = 1/8 Downloading
SHDSL Symmetric High Speed Digital Subscribe Line Upload = Download

Class of service : classify the data depend on type of it (Video – Voice – Mail)

Firewall Types :
Stateless Firewall : Check data in only one direction
checks packets individually without keeping track of the state of connections

Statefull Firewall : Check data in both directions
keeps track of the state of active connections. It monitors the entire session of a connection

Types of Traffics :

Transit Traffic Processing -> PFE Handle it

Ex : 1.1.1.1 wants to connect to 3.3.3.3 , So 2.2.2.2 will have Transit Traffic

Exception Traffic Local IP -> RE Handle it

Ex : 1.1.1.1 want to connect with 2.2.2.2

Exception Traffic Control Traffic -> RE Handle it

When router wants to send it routing table

Multicase 224.0.05 & 224.0.0.6