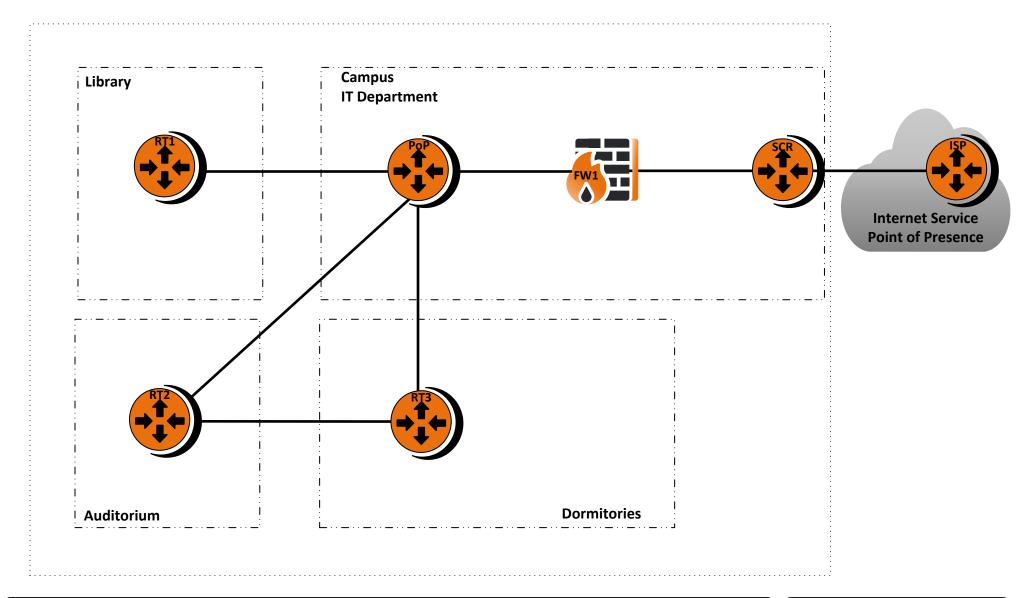
VyOS Tinker Lab 1

Modelo University (Fictional)

Change Log

DATE	CHANGES MADE BY Initial Diagrams Published	VERSION	CHANGES AND TABS THAT WAS CHANGED
8/10/2021	Initial Diagrams Published	1.0.0	Initial Diagrams
	_		

Campus L3 Locations



Comments

Control Information

 Lab Title:
 VyOS Tinker Lab 1

 Author:
 Ed Alan S.

 Version:
 1.0.0

 Date:
 8/10/2021

L3 (Boundry/BGP) Network Architecture **iBGP** eBGP **BGP ASN** 23458 **Campus** Library **IT Department BGP ASN** 23457 129.323.0.124/30 128.333.0.0/30 129.323.0.120/30 10.10.0.0/30 .121 .126 .125 **Internet Service** On-Prem DMZ **Point of Presence** <u>10.0.0.0/1</u>6 129.323.0.0/28 **Services** 10.10.1.0/28 DNS- .2, 3 DMZ DNS- .2, .3 Email- . 4, 5 Edge Trans- . 4, .5 10.10.0.8/30 VPN-.6,.7 10.10.0.12/30 10.2.0.0/16 10.1.0.0/16 10.2.0.0/16 **Dormitories Auditorium**

Registered Public IP Space: 129.323.0.0/25 **Firewall Requirements:**

- -(Internal) DNS port 53 allowed to DMZ DNS IP's.
- -(Internal) Email ports allowed to Edge Tans IP's.
- All Outbound Web traffic must NAT OUT External Interface - Pool 129.323.0.32/29

Comments

- -(DMZ) DNS port 53 IP's allowed OUT External Interface
- -(DMZ) Edge Trans email traffic allowed IN/OUT External Interface.
- -(DMZ) VPN IP's and ports 50/500/4500 allowed IN/OUT External Interface.

Control Information

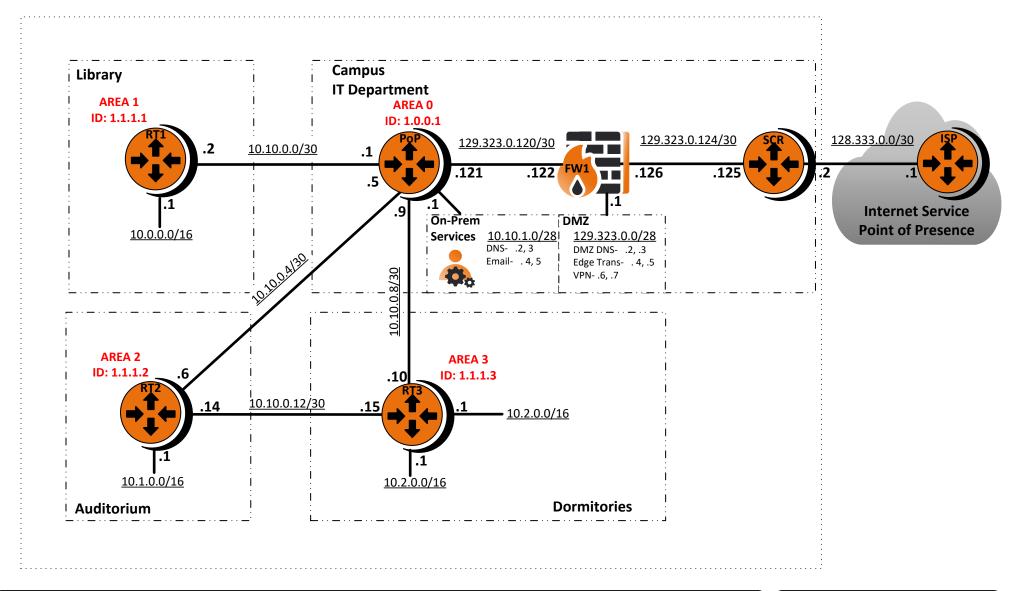
Lab Title: VyOS Tinker Lab 1

Author:

(External)

Ed Alan S. Version: 1.0.0 8/10/2021 Date:

L3 (OSPF) Network Architecture



Comments

OSPF: -Each Building is assigned an OSPF Area for future Scalability.

-All "/16" Subnets are summarized networks for contiguous scalabitliy.

Control Information					
Lab Title:	VyOS Tinker Lab 1				
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Version: 1.0.0

Date: 8/10/2021

Legend Key



VyOS Router



Firewall - Primary Role (VyOS Router)



Cloud



Virtual Private Network



Network Services: i.e. DHCP, DNS Forwarding, etc.

_____ Fiber Medium

Comments

Control Information

Lab Title: VyOS Tinker Lab 1

Author: Ed Alan S.

Version: 1.0.0

Date: 8/10/2021