ASA Device Package with PBR Service Graph and One-Arm L4-L7 Device

https://github.com/cisco-security/aci-scripts/tree/master/pod2-asa-pbr-graph

The python scripts included in the GitHub build a Tenant pod2 and insert a PBR service graph, using one-arm model in communication path between EPGs inside the same Bridge Domain. ASA5525-X model in multi-context mode is used and one of the contexts is allocated to this service graph. The user context is registered and used with a managed (service policy model).

The rebuild-mypod.bash script is a wrapper around all the python scripts that in proper order orchestrate this tenant and service graph. Each python script will print the XML sent to APIC.

The python scripts depend on underlying pre-configured settings to execute properly. Those would have to be updated to match the new APIC env you plan to deploy this in. Such items include names of: VVM and physical domains, imported ASA device package, pre-configured vPC (if used for ASA data plane), etc. ASAv appliance can be used in this case as well, which would eliminate the need for a physical domain currently used under device registration.

Please refer this YouTube link for an instructional video and demo:

ASA PBR Service Graph Demo in ACI Fabric https://youtu.be/eZi0ViEoWuE

Here is the diagram used in this demo and matching scripts:

APIC 2.0 PBR Service Graph to a Single Interface L3FW ASA or FTD ASA/FTD 10.3.0.1 Route to 10.3.0.2 Fabric directs traffic in and PBR Service Graph redirects out of the same interface, traffic (http) between two EPGs using unmanaged or managed within the same Bridge Domain Device. Feature used on ASA: (subnet). Select type of traffic N9k SVIs same-security intra-interface (ssh) to send linerate via ACI BD: pbr_bd fabric (no ASA inspection). 10.3.0.2 10.1.0.2 Demo uses ASA device **EPG WEB** http **EPG APP** package version 1.2.7.10, BD: ssh (file copy) ASA context on ASA5525 Web running version 9.5.1, and APIC 2.1(1h) Protected Servers DHCP: 10.1.0.100 - 10.1.0.140 Cisco live!