: CiscoASA QoS Cisco PDF

Cisco ASA

QoS (traffic policing)
(traffic shaping) priority queueing)

(7.2.4)

QoS 1) class map

ACL dscp tunnel-group… 2) policy map
priroty Police class map 3)
service policy policy map 4) service policy

Traffic Policing with Prioritization Lets
assume that we have an ASA that is running voice over a VPN
tunnel. And that we want to prioritize the voice traffic through the
VPN. Also we want to police the VPN traffic that is not voice and the
rest of the TCP traffic. Lets say that the available upload bandwidth
for the outside interface is 1Mbps. We want to dedicate 300kbps for
the VPN, 100kbps of which will be guaranteed for voice (thus
200kbps for non-voice VPN traffic), 500kbps for the tcp traffic and
200kbps for everything else. Also, assume that the voice traffic is
flagged with dhcp field ef (as it is the default for most cases). The
tunnel group name is tunnel-grp1. ASA (config) # priority-queue

outside ASA(config) # access-list tcp-traffic-acl permit tcp any any ASA(config) # class-map tcp-traffic-class ASA(config-cmap) # match access-list tcp-traffic-acl ASA(config) # class-map TG1-voice-class ASA(config-cmap) # match tunnel-group tunnel-grp1 ASA(config-cmap) # match dscp ef ASA(config-cmap) # class-map TG1-rest-class ASA(config-cmap) # match tunnel-group tunnel-grp1 ASA(config-cmap) # match flow ip destination-address ASA(config) # policy-map police-priority-policy ASA(config-pmap) # class tcp-traffic-class ASA(config-pmap-c) # police output 500000 ASA(config-pmap-c) # class TG1-voice-class ASA(config-pmap-c) # priority ASA(config-pmap-c) # class TG1-rest-class ASA(config-pmap-c) # police output 200000 ASA(config-pmap-c) # class class-default ASA(config-pmap-c) # police output 200000 ASA(config-pmap-c) # service-policy police-priority-policy interface outside Traffic Shaping with Prioritization Now, lets assume that we have the same ASA as in the previous case. And we now want to traffic shape all traffic and prioritize the voice through the VPN. In other words we will traffic shape all traffic for 900kbps, prioritize the voice and guarantee 100kbps for it. Again, we assume that the voice traffic is flagged with dhcp field ef and the tunnel group name is tunnel-grp1. ASA(config) # priority-queue outside ASA(config) # class-map TG1-voice-class ASA(config-cmap) # match tunnel-group tunnel-grp1 ASA(config-cmap) # match dscp ef ASA(config-cmap) # policy-map priority-policy ASA(config-pmap) # class TG1-voice-class ASA(config-pmap-c) # priority

ASA(config-pmap-c)# policy-map shape-priority-policy
ASA(config-pmap)# class class-default ASA(config-pmap-c)# shape
average 1000000 ASA(config-pmap-c)# service-policy
priority-policy ASA(config-pmap-c)# service-policy
shape-priority-policy interface outside

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