



ПРИМЕРЫ RSE

Семинар TRIPLE “E”

POLICY ACL

- > !
- > policy access-list QoS-Out
- > seq 10 permit ip 10.0.0.0 0.255.255.255 any class Peering
- > seq 20 permit ip 192.168.0.0 0.0.255.255 any class Peering
- > seq 30 permit ip 172.16.0.0 0.15.255.255 any class Peering
- >
- > seq 110 permit ip any any class Internet
- > !
- > policy access-list QoS-In
- > seq 10 permit ip any 10.0.0.0 0.255.255.255 class Peering
- > seq 20 permit ip any 192.168.0.0 0.0.255.255 class Peering
- > seq 30 permit ip any 172.16.0.0 0.15.255.255 class Peering
- > ...
- > seq 110 permit ip any any class Internet
- > !

QOS POLICY

- > !
- > qos policy METERING metering radius-guided
- > access-group QoS-Out local
- > class Peering
- > rate 64 burst 8333
- > class Internet
- > rate 64 burst 8333
- > !
- > qos policy POLICING policing radius-guided
- > access-group QoS-In local
- > class Peering
- > rate 64 burst 8333
- > class Internet
- > rate 64 burst 8333
- > !

PEERING SERVICE

- > !
- > radius service profile Peering
- > parameter value InRate
- > parameter value InBurst
- > parameter value OutRate
- > parameter value OutBurst
- > parameter list Dir "in out"
- > foreach Dir
 - > attribute Dynamic-Policy-Filter "ip \$Dir forward class Peering qos"
 - > attribute Dynamic-Qos-Parameter "police-class-rate Peering rate-absolute \$InRate"
 - > attribute Dynamic-Qos-Parameter "police-class-burst Peering \$InBurst"
 - > attribute Dynamic-Qos-Parameter "meter-class-rate Peering rate-absolute \$OutRate"
 - > attribute Dynamic-Qos-Parameter "meter-class-burst Peering \$OutBurst"
- > !

INTERNET SERVICE

- > !
- > radius service profile Inet-Unlimit
- > parameter value InRate
- > parameter value InBurst
- > parameter value OutRate
- > parameter value OutBurst
- > parameter list Dir "in out"
- > parameter value InterimTime
- > accounting out qos Internet
- > accounting in qos Internet
- >

INTERNET SERVICE (PART 2)

- › foreach Dir
- › attribute Dynamic-Policy-Filter "ip \$Dir forward class Internet qos"
- › attribute Dynamic-Qos-Parameter "police-class-rate Internet rate-absolute \$InRate"
- › attribute Dynamic-Qos-Parameter "police-class-burst Internet \$InBurst"
- › attribute Dynamic-Qos-Parameter "meter-class-rate Internet rate-absolute \$OutRate"
- › attribute Dynamic-Qos-Parameter "meter-class-burst Internet \$OutBurst"
- › attribute Service-Interim-Accounting \$InterimTime
- › !

QUOTA EXAMPLE

- > !
- > radius service profile Inet-Limit
- > parameter value InLimit
- > parameter value OutLimit
- >
- > attribute Service-Volume-Limit out \$OutLimit
- > attribute Service-Volume-Limit in \$InLimit
- > ...
- > service-option traffic-limit acct-alive

TIME CONDITION

- > !
- > policy access-list QoS-Out-DayNight
- > condition 1 time-range
- > periodic weekend weekdays 00:00 to 08:00 class InternetNight
- > ...
- > ...
- > ...
- > seq 120 permit ip any any class InternetDay condition 1
- > !
- > policy access-list QoS-In-DayNight
- > condition 1 time-range
- > periodic weekend weekdays 00:00 to 08:00 class InternetNight
- > ...
- > ...
- > ...
- > seq 120 permit ip any any class InternetDay condition 1
- > !

TIME CONDITION (CONT.)

- > !
- > qos policy METERING metering radius-guided
- > access-group QoS-In-DayNight local
- > class Peering
- > rate 64 burst 8333
- > class InternetDay
- > rate 64 burst 8333
- > class InternetNight
- > rate 64 burst 8333
- > !
- > qos policy POLICING policing radius-guided
- > access-group QoS-Out-DayNight local
- > class Peering
- > rate 64 burst 8333
- > class InternetNight
- > rate 64 burst 8333
- > class InternetDay
- > rate 64 burst 8333
- > !

TIME CONDITION (CONT.)

- > !
- > radius service profile Inet-Unlim-DayNight
- > parameter value DayInRate
- > parameter value DayInBurst
- > parameter value DayOutRate
- > parameter value DayOutBurst
- > parameter value NightInRate
- > parameter value NightInBurst
- > parameter value NightOutRate
- > parameter value NightOutBurst
- > parameter list Dir "in out"
- > parameter list InDN "InternetNight InternetDay"
- > parameter value InterimTime
- > accounting out qos \$InternetDN
- > accounting in qos \$InternetDN
- > foreach Dir
 - > attribute Dynamic-Policy-Filter "ip \$Dir forward class InternetDay qos"
 - > attribute Dynamic-Policy-Filter "ip \$Dir forward class InternetNight qos"
 - > attribute Dynamic-Qos-Parameter "police-class-rate InternetDay rate-absolute \$DayInRate"
 - > attribute Dynamic-Qos-Parameter "police-class-burst InternetDay \$DayInBurst"
 - > attribute Dynamic-Qos-Parameter "meter-class-rate InternetDay rate-absolute \$DayOutRate"
 - > attribute Dynamic-Qos-Parameter "meter-class-burst InternetDay \$DayOutBurst"
 - > attribute Dynamic-Qos-Parameter "police-class-rate InternetNight rate-absolute \$NightInRate"
 - > attribute Dynamic-Qos-Parameter "police-class-burst InternetNight \$NightInBurst"
 - > attribute Dynamic-Qos-Parameter "meter-class-rate InternetNight rate-absolute \$NightOutRate"
 - > attribute Dynamic-Qos-Parameter "meter-class-burst InternetNight \$NightOutBurst"
- > attribute Service-Interim-Accounting \$InterimTime
- > !

ЗАПИСЬ ПОЛЬЗОВАТЕЛЯ В RADIUS

- › username Password = "userpass"
- › Service-Type= Framed-User,
- › Framed-Protocol = PPP,
- › Context-Name = local,
- › Framed-IP-Address = 255.255.255.254,
- › Qos-Policy-Policing = "POLICING",
- › Qos-Policy-Metering = "METERING",
- › RB-Service-Name += 1:Inet-Unlimit,
- › RB-Service-Option += 1:1,
- › RB-Service-Parameter += 1:"InRate=64 InBurst=8333 OutRate=64 \
- › OutBurst=8333 InterimTime=900"
- › RB-Service-Name += 2:Peering,
- › RB-Service-Option += 2:0,
- › RB-Service-Name-Parameter += "2: InRate=50000 InBurst=128000 OutRate=50000 OutBurst=128000",

Пример СОА

- › radclient -f соа_commands 10.64.2.21:3799 соа redback
- › Состав файла соа_commands:
- › User-Name = user,
- › Reauth-Service-Name:1 = "Inet-Unlimit"
- › RB-Service-Name-Parameter:1 = "InRate=512
InBurst=12000 OutRate=512 OutBurst=12000"



ERICSSON