TOS ZONE-BASED ETDEWALL

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IOS ZONE-BASED FIREWAL	L packetlife.ne
Terminology	Inspection Class Configuration
Security Zone A group of interfaces which share a common level of security Zone Pair A unidirectional pairing of source and destination zones to which a security policy is applied	<pre>! Match by protocol class-map type inspect match-any ByProtocol match protocol tcp match protocol udp match protocol icmp</pre>
Inspection Policy An inspect-type policy map used to statefully filter traffic by matching one or more inspect-type class maps	<pre>! Match by access list ip access-list extended MyACL permit ip 10.0.0.0 255.255.0.0 any</pre>
Parameter Map An optional configuration of protocol-specific parameters referenced by an inspection policy	! class-map type inspect match-all ByAccessList match access-group name MyACL
Security Zones	Parameter Map Configuration
Image: Constraint of the second se	<pre>parameter-map type inspect MyParameterMap alert on audit-trail off dns-timeout 5 max-incomplete low 20000 max-incomplete high 25000 icmp idle-time 3 tcp synwait-time 3</pre>
Guest	Inspection Policy Actions
Corporate LAN G0/2.10 G0/2.20 Wireless LAN	DropTraffic is prevented from passingPassTraffic is permitted to pass without stateful inspection
Pefining security zones	Traffic is subjected to statefulInspectinspection; legitimate return traffic is permitted in the opposite direction
zone security Trusted zone security Guest zone security Internet	Inspection Policy Configuration
<pre>! Assigning interfaces to security zones interface GigabitEthernet0/0 zone-member security Trusted ! interface GigabitEthernet0/1 zone-member security Internet ! interface GigabitEthernet0/2.10 zone-member security Trusted ! interface GigabitEthernet0/2.20 zone-member security Guest</pre>	<pre>policy-map type inspect MyInspectionPolicy ! Pass permitted stateless traffic class VPN-Tunnel pass ! Inspect permitted stateful traffic class Allowed-Traffic1 inspect ! Stateful inspection with a parameter map class Allowed-Traffic2 inspect MyParameterMap ! Drop and log unpermitted traffic class class-default drop log</pre>
Zone Pair Configuration	Troubleshooting
! Service policies are applied to zone pairs	show zone security
zone-pair security T2I source Trusted destination Internet	

zone-pair security T2I source Trusted destination Internet service-policy type inspect Trusted2Internet

zone-pair security G2I source Guest destination Internet service-policy type inspect Guest2Internet

zone-pair security I2T source Internet destination Trusted service-policy type inspect Internet2Trusted

show zone-pair security

show policy-map type inspect

show class-map type inspect

debug zone security events

show parameter-map type inspect