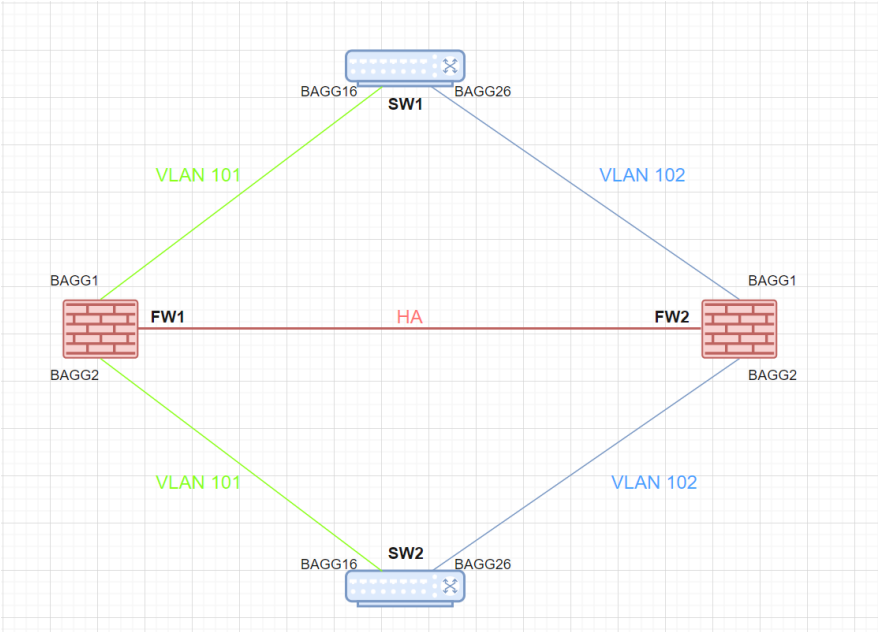
RBM透明双主部署典型配置

会话同步 双机热备 Track 孔凡安 2024-03-12 发表

组网及说明



组网说明：FW1和FW2的上、下行二层接口分别连接SW，其接口分别加入不同的VLAN。SW通过路由配置，实现内外网流量在两台FW所在路径上进行负载分担(以 OSPF为例)。HA工作在双主模式，保证正常情况下两台FW同时处理业务。

配置步骤

SW配置：

	SW1	SW2
接口配置	vlan 101 # vlan 102 # interface Bridge-Aggregation16 port link-type trunk undo port trunk permit vlan 1 port trunk permit vlan 101 link-aggregation mode dynamic # interface Bridge-Aggregation26 port link-type trunk undo port trunk permit vlan 1 port trunk permit vlan 102 link-aggregation mode dynamic # interface Vlan-interface101 ip address 10.101.68.1 255.255.255.0 ospf network-type p2p # interface Vlan-interface102 ip address 10.102.68.1 255.255.255.0 ospf network-type p2p #	vlan 101 # vlan 102 # interface Bridge-Aggregation16 port link-type trunk undo port trunk permit vlan 1 port trunk permit vlan 101 link-aggregation mode dynamic # interface Bridge-Aggregation26 port link-type trunk undo port trunk permit vlan 1 port trunk permit vlan 102 link-aggregation mode dynamic # interface Vlan-interface101 ip address 10.101.68.2 255.255.25 5.0 ospf network-type p2p # interface Vlan-interface102 ip address 10.102.68.2 255.255.25 5.0 ospf network-type p2p #

ospf	#
	interface LoopBack0
	 ip address 68.1.1.1
	255.255.255.255
	#
	ospf 1 router-id 68.1.1.1
	 area 0.0.0.0
	  network 10.101.68.0 0.0.0.255
	  network 10.102.68.0 0.0.0.255
	  network 68.1.1.1 0.0.0.0
	#
	
		#
		interface LoopBack0
		 ip address 68.1.1.2 255.255.255.25
		5
		#
		ospf 1 router-id 68.1.1.2
		 area 0.0.0.0
		  network 10.101.68.0 0.0.0.255
		  network 10.102.68.0 0.0.0.255
		  network 68.1.1.2 0.0.0.0
		#

FW配置：

	FW1	FW2

接口、安全域、安全策略配置	#
	interface Route-Aggregation64
	 ip address 192.60.12.1
	255.255.255.252
	#
	interface Bridge-Aggregation1
	 port link-type trunk
	 undo port trunk permit vlan 1
	 port trunk permit vlan 101
	 link-aggregation mode dynamic
	#
	interface Bridge-Aggregation2
	 port link-type trunk
	 undo port trunk permit vlan 1
	 port trunk permit vlan 101
	 link-aggregation mode dynamic
	#
	security-zone name Trust
	 import interface Bridge-Aggregation1 vlan 101 to 102
	 import interface Bridge-Aggregation2 vlan 101 to 102
	#
	security-policy ip
	 rule 0 name any
	  action pass
		#
		interface Route-Aggregation64
		 ip address 192.60.12.1 255.255.255.252
		#
		interface Bridge-Aggregation1
		 port link-type trunk
		 undo port trunk permit vlan 1
		 port trunk permit vlan 102
		 link-aggregation mode dynamic
		#
		interface Bridge-Aggregation2
		 port link-type trunk
		 undo port trunk permit vlan 1
		 port trunk permit vlan 102
		 link-aggregation mode dynamic
		#
		security-zone name Trust
		 import interface Bridge-Aggregation1 vlan 101 to 102
		 import interface Bridge-Aggregation2 vlan 101 to 102
		#
		security-policy ip
		 rule 0 name any
		  action pass

RBM部分	# remote-backup group backup-mode dual-active data-channel interface Route-Aggregation64 configuration sync-check interval 1 delay-time 5 track interface GigabitEthernet1/0/2 track interface GigabitEthernet1/0/4 local-ip 192.60.12.1 remote-ip 192.60.12.2 device-role primary # undo bridge fast-forwarding check-vlan-id	# remote-backup group backup-mode dual-active data-channel interface Route-Aggregation64 configuration sync-check interval 1 delay-time 5 track interface GigabitEthernet1/0/2 track interface GigabitEthernet1/0/4 local-ip 192.60.12.2 remote-ip 192.60.12.1 device-role secondary # undo bridge fast-forwarding check-vlan-id

配置关键点

1. FW注意放通对应的动态路由协议相关的安全策略，如何细化可以参考典配。

2. FW配置track interface监控上下行接口状态，实现接口状态的联动。保证当其中一台FW或其链路故障时，上、下行流量能统一切换到对端。注意不是track vlan。

3. 需要配置Bridge转发时对VLAN ID字段的检查功能，对应命令：undo bridge fast-forwarding check-vlan-id