

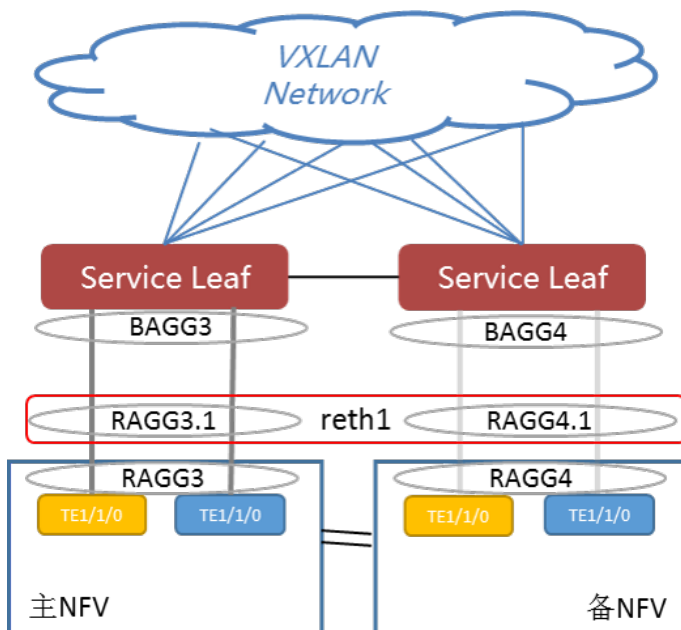
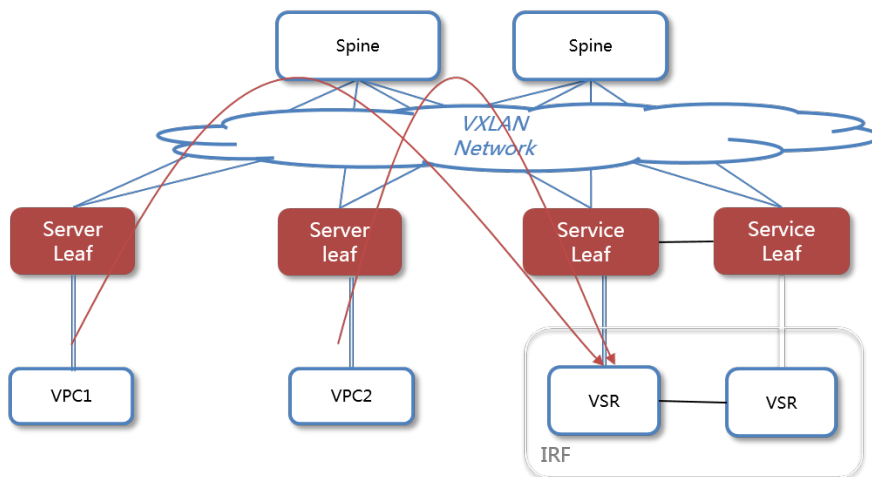
知 静态路由依赖下一跳ARP生效典型配置及应用场景举例

ARP 静态路由 信宁 2018-03-21 发表

静态路由的track通常通过探测下一跳IP是否可达来决定是否生效。在某些场景下，可以配置静态路由依赖下一跳接口ARP来替代track的配置，既能简化配置，又可以提高敏感性，多用于HA场景。

如下图，两个VSR堆叠，每台VSR上联一台Service Leaf。多租户场景下，VSR上创建为每个租户创建两个子接口，将这两个子接口加入到一个冗余口中，冗余口绑定租户的VRF。

两台Service Leaf上都需要配置静态路由，下一跳指向VSR上对应的冗余口地址。要实现正常状态下，访问VSR的流量都会通过Service Leaf1来到VSR的主slot；当主slot故障时，流量都会通过Service Leaf2来到备slot。



【Service Leaf的有关配置】

#vpn配置

```
ip vpn-instance vpna
route-distinguisher 1:2211111
description SDN_VRF_6317e6c9-ef55-42fe-bf5e-4f8efb38c287
#
address-family ipv4
vpn-target 0:2211111 1:2211111 import-extcommunity
vpn-target 1:2211111 export-extcommunity
#
address-family evpn
vpn-target 0:2211111 1:2211111 import-extcommunity
vpn-target 1:2211111 export-extcommunity
```

#VSI配置

```
vsi SDN_VSI_2211119
gateway vsi-interface 11119
statistics enable
vxlan 2211119
evpn encapsulation vxlan
mac-advertising disable
arp mac-learning disable
route-distinguisher auto
vpn-target auto export-extcommunity
vpn-target auto import-extcommunity
```

#L2VNI配置

```
interface Vsi-interface11119
ip binding vpn-instance vpna
ip address 121.1.1.41 255.255.255.248 sub
mac-address 0056-5656-5656
local-proxy-arp enable
arp route-direct advertise -----开启ARP直连路由通告
distributed-gateway local
```

#AC口配置

```
interface Bridge-Aggregation3
port link-type trunk
undo port trunk permit vlan 1
port trunk permit 2 to 500
port trunk pvid vlan 2
link-aggregation mode dynamic
stp edged-port
```

#

```
service-instance 201
encapsulation s-vid 201
xconnect vsi SDN_VSI_2211119
```

#

```
bgp 65203 instance SDN_INSTANCE_BGP
```

#

```
ip vpn-instance vpna
```

#

```
address-family ipv4 unicast
balance 4
```

```
import-route static---引入静态路由
```

#

```
ip route-static vpn-instance vpna 104.78.0.0 16 121.1.1.42 recursive-lookup host-route-----
```

指定静态路由只能迭代到直连主机路由

【VSR的有关配置】

#冗余口配置

```
interface Reth211
ip binding vpn-instance 30_mgtgw_1
ip address 121.1.1.42 255.255.255.248
member interface Route-Aggregation3.200 priority 100
member interface Route-Aggregation4.200 priority 50
```

#路由接口配置

```
interface Route-Aggregation3.200
vlan-type dot1q vid 200
interface Route-Aggregation4.200
vlan-type dot1q vid 2010
```

VSR部分也可以为其他设备，例如防火墙，LB等

配置关键点在于静态路由配置时添加recursive-lookup参数，并在对应的接口下使能ARP直连路由通告