

36. Physical DMZ

Vigor 3300 series support physical DMZ function to let user access lots of servers in secure via Internet environment. We provide a general user application as a reference including case description and configuration of Web interface. There are two modes supported in this feature including NAT and Routing mode. Please refer to the following introduction about related application and configuration.

This chapter is divided into the following sections.

36.1 General description

Generally speaking, in this feature we usually assign a WAN interface as a physical DMZ interface to be used. User can only assign one WAN interface as DMZ at the same time. On the other side, user has to enable load balance function and activate the DMZ interface at first.

We provide two examples represented in NAT and Routing mode independently in following two sections.

36.2 NAT mode configuration

Please refer to the following scenario graph as NAT mode application.



Figure 36-1. NAT mode scenario graph

In the WAN1 of Vigor 3300V, user has to assign a static (public) IP address. On the other

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hand, user needs to get a group of IP addresses (by subnet mask) for this application. In this case, the range of IP address is 210.243.230.32 to 210.243.230.39.

The first and the last IP addresses can not be used. We configure 210.243.230.33 as the IP address of WAN1 interface, subnet mask is 255.255.248.

We configure DMZ in WAN4 interface, the IP address subnet is 172.16.1.1/255.255.255.0. This subnet must be different from LAN subnet. We setup three host servers in DMZ interface, these three host servers are connected to a switch or hub.

Then, we configure the other three IP addresses in IP Alias list. These three IP addresses are mapped separately to three host servers. 210.243.230.34 is mapped to 172.16.1.2; 210.243.230.35 is mapped to 172.16.1.3; 210.243.230.36 is mapped to 172.16.1.4. In order to make NAT mode work well, user needs to configure DMZ Host function together.

Please refer to the following steps about this case.

1. Configure WAN1 interface in 3300V

Static/DHCP Configuration	PPPoE/PPTP Configuration	DMZ Configuration		
IP Address :	210.243.2	30.33	Host Name :	
Subnet Mask :	255.255.2	55 248	Domain Name :	
Default Gateway:	210.243.2	30.38	(Host Name and Domain	Name are required for some ISPs.)
Primary DNS :	168.95.1.1			
Secondary DNS :				
Connection Detect	ion			
Detect Type :	Send AR	P to Gateway 💌		
Detect Interval(sec) :	10			
Max Unreply Times:	2			
Detect Destination Host (IP or Domain Name)	: 			
IP Alias List				
1.	210.243.2	30.34	2.	210.243.230.35
3.	210-243.2	30.36	4.	
5.			6.	
7.			8.	

Figure 36-2. WAN1 configuration



2. Configure WAN 4 as DMZ interface

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11-00 👔 http://192.168.1.1/kg	estai_asveidet_asveiter?igs and nationalaisat/aid-	14		🖌 🔁 松亜
MAC Address :	Default MAC O User Defined DO 50 715a 88:30	MAC		
Downstream Rate	102400 (kbp)	0		
Upstream Rate:	102400 Obp	0		
Type :	Fast Ethernet			
Physical Mode :	Auto Negotiation 💌	\cap		
IP Mode :	O Static O DHCP O PPPoE	OPPTP (ODMZ)		
Static/DHCP Configuration	PPPoE/PPTP DMZ Configuration			
IP Address	172.16.1.1			
Subnet Mask :	255.255.255.0			
DMZ Host Type :	NAT Mode			
Outgoing Interface :	WABL -			
DMZ Host IP List(Only	Routing Mode)			
1.		2		
3.		4.		
6		5		
-				
1.		8.		

Figure 36-3. WAN 4 configuration as DMZ

3. Configure main WAN page.

uick Setup	System	Network	Advanced	Firewall	QoS VPN	VolP			3:15:1
Network	- WAN								
Load Balance	:	ODisa	ble Enable (Auto Weight					
Backup		🕑 Disa	ble O Enable						
*	Edit	IP Mode	Active	Defau	It Route Load	Balance Weight	Backup-Ma	ster Backup-Sl	ave VolP
WANT	2	Static		۲		ELOUIS	0		۲
WAN2	3	Not Set	a			10%	e 0		
WAN3	3	Not Set	14			1.0%	0 8		
WAN4	1	DMZ				100	M O		

Figure 36-4. Main WAN configuration

4. Configure DMZ Host.

1). 210.243.230.34 = > 172.16.1.2

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Vigor3300 s MultiService	series e Security						VIGOROUS BROADBAND ACCESS
Quick Setup System	Network	Advanced	Firewall	QoS	VPN	VolP	3:17:39 P.M
Advanced - NA	T - DMZ H	ost - Edit					
1 WAN Werface	T WAN						
Private IP :	172 1	6.1.2	2				
Use IP Allas	OD	sable 💿 Enable)				
IP Alas ::	210	243.230.34	/				
		1.1.1					Apply Cancel

Figure 36-5. The first DMZ Host configuration

2). 210.243.230.35 = > 172.16.1.3

Vigor3300 MultiServic	series & Security						VIGOROUS BROADBAND ACCESS
Quick Setup System	n Network	Advanced	Firewall	QoS	VPN	VolP	3:18:27 P.M
Advanced - N/	AT - DMZ H	ost - Edit					
2							
Private IP :	172.1	6.1.3	-				
Use IP Alias	(00	sable 🕑 Enable)				
IP Alias	EII	243 230 15 2					
							Apply Cancel

Figure 36-6. The second DMZ Host configuration

3). 210.243.230.36 = > 172.16.1.4



Figure 36-7. The third DMZ Host configuration

When user completes these settings, user can use this DMZ feature as well.



36.3 Routing mode configuration

Please refer to the following scenario graph as Routing mode application.



Figure 36-8. Routing mode scenario graph

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In this mode, the major different point compared with NAT mode is that user is not necessary to configure a private subnet as DMZ in WAN 4 interface and IP Alias in WAN1.

However, user still needs to get some IP addresses from ISP to be used. User can access the host servers directly without NAT function. These three host servers can be assigned public IP addresses. The IP address of gateway is same as WAN1.

Please refer to the following steps about this case.

1. Configure WAN1 interface in 3300V

Static/DHCP Configuration	PPPoE/PPTP Configuration	DMZ Configuration	
IP Address : Subnet Mask : Default Gateway : Primary DNS :	210 243.23 255 256 24 210 243.23 168 95 1 1	80.33 55.248 30.38	Host Name : Domain Name : (Host Name and Domain Name are required for some ISPs.)
Secondary DNS : Connection Detection	on		
Detect Type : Detect Interval(sec) : Max Unreply Times:	10 2	P to Gateway 👻	
Detect Destination Host : (IP or Domain Name) IP Alias List			
1, 3.			2. 4.

Figure 36-9. WAN1 configuration

2. Configure WAN 4 as DMZ interface

	CODEIRUITMAC COO	SELCENNED WHO		
	00.50.716+18.38			
Downstream Rate :	102400	(ktops)		
Upstream Rate :	102400	(kbps)		
Type :	Fast Ethernet	*		
Physical Mode :	Auto Negotiatio	on M		
IP Mode :	O Static O DHCP	OPPRE OPPTP ODMZ		
Static/DHCP Configuration	PPPoE/PPTP Configuration Con	DMZ figuration		
P Address				
Subnet Mask -				
Part (local Tax)				
OWZ PIOSE TYpe:	Routing Mode *)		
Outgoing Interface :	VAN1 W			
DMZ Host IP List(Oni	y Routing Mode)			
	210.243.230.34	2.	210.243.230.35	
3	210.243.230.36	4.		
5.		6.		
1.		В.		
				Apply Reset Cancel

Figure 36-10. WAN 4 configuration as DMZ

Please remember to configure the IP addresses of host servers in DMZ Host IP List.



3. Configure main WAN page

Mul	system	Security Network	Advanced	Firewall Qos	VPN V	/oIP	a state of		3:15:17 P.
Network	k - WAN								
thad Balance	P2	O Disat	ble Enable (Auto Weight)					
Backup :		O Disat	tile O Enable						
#	Edit	IP Mode	Active	Default Rout	e Load Baland	weight	Backup-Master	Backup-Slave	VolP
WAN1	S	Static	> (@)	1		ELOCE			۲
WAN2		Not Set	0		0	104			
	2	Not Set				10%			
WAN3			_/			1101 101			

Figure 36-11. Main WAN configuration

When user completes these settings, user can use this DMZ feature as well.

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