Configuration of Multiple Public IPs in DeMilitarized Zone (DMZ) on RV042, RV042G and RV082 VPN Routers

Objective

The Demilitarized Zone (DMZ) is an internal network of an organization, which is made available to an untrusted network. As per security, the DMZ falls between trusted and untrusted networks. Maintenance of the DMZ helps to improve security ofto an organization's internal network. When an Access Control List (ACL) is bound to an interface, its Access Control Element (ACE) rules are applied to packets that arrive at that interface. Packets that do not match any of the ACEs in the Access Control List are matched to a default rule whose action is to drop unmatched packets.

The objective of this document is to show you how to configure the DMZ port to allow Multiple Public IP addresses and define the Access Control List (ACL) for IPs on the router device.

Applicable Devices

- RV042
- RV042G
- RV082

Software Version

• v4.2.2.08

DMZ Configuration

Step 1. Log into the Web Configuration Utility page and choose **Setup > Network**. The *Network* page opens:

Network						
Host Name :	router79f37a	(Required by some ISPs)				
Domain Name :	router79f37a.com	(Required by some ISPs)				
IP Mode						
Mode	WAN	LAN				
O IPv4 Only	IPv4	IPv4				
Oual-Stack IP	IPv4 and IPv6	IPv4 and IPv6				
IPv4 IPv	6					
LAN Setting						
MAC Address : 5	0:57:A8:79:F3:7A					
Device IP Addres	s: 192.168.1.1					
Subnet Mask :	255.255.255.0 👻					
Multiple Subnet	Enable Add/	Edit				
WAN Setting						
Interface (Connection Type	Configuration				
WAN1 (Obtain an IP automatically					
DMZ Setting						
Interface I	P Address	Configuration				
DMZ 0	0.0.0.0					
Save	Cancel					

Step 2. In the *IP Mode Field*, click the **Dual-Stack IP** radio button to enable the configuration of IPv6 addresses.

Mode WAN LAN
O IPv4 Only IPv4 IPv4
Dual-Stack IP IPv4 and IPv6 IPv4 and IPv6

Step 3. Click the IPv6 tab located in the *LAN Setting* field to be able to configure DMZ on IPv6 address.

IPv4 IF	² V6
LAN Setting	
IPv6 Address :	fc00::1
Prefix Length:	7

Step 4.Scroll down to the DMZ Setting area and click the DMZ checkbox to enable DMZ

DMZ Setting		
🕑 Enable DM		
Interface	IP Address	Configuration
DMZ	::/64	

Step 5. In the *WAN Setting* field click on the **Edit** button to edit the IP Static of the WAN1 settings.

WAN Setting		
Interface	Connection Type	Configuration
WAN1	Obtain an IP automatically	

The Network page opens:

Network	
Edit WAN Connection	
Interface :	WAN1
WAN Connection Type :	Static IP
Specify WAN IP Address :	192.168.3.1
Subnet Mask :	255.255.255.0
Default Gateway Address :	192.168.3.2
DNS Server (Required) 1 :	0.0.0.0
2 :	0.0.0.0
MTU :	Auto Manual 1500 bytes
Save Cancel	

Step 6. Choose Static IP from the WAN Connection Type drop-down list.

Step 7. Enter the WAN IP address that is displayed on the *System Summary* page in the *Specify WAN IP Address* field.

Step 8. Enter the subnet mask address in the Subnet Mask field.

Step 9. Enter the default gateway address in the *Default Gateway Address* field.

Step 10. Enter the DNS Server address that is displayed on the *System Summary* page in the *DNS Server (Required) 1* field.

Note: The DNS Server address 2 is optional.

Step 11. Choose the Maximum Transmission Unit (MTU) to be either **Auto** or **Manual**. If you choose manual enter the bytes for the Manual MTU.

Step 12. Click the **Save** tab to save your settings.

ACL Definition

Step 1. Log into the Web Configuration Utility page and choose **Firewall > Access Rules**. The *Access Rules* page opens:

A	Access F	Rules								
[IPv4	IPv6								
								Item 1-3	of 3 Rows per pa	ge: 5 💌
2	Priority	Enable	Action	Service	Source Interface	Source	Destination	Time	Day	Delete
		M	Allow	All Traffic [1]	LAN	Any	Any	Always		
			Deny	All Traffic [1]	WAN	Any	Any	Always		
		M	Deny	All Traffic [1]	DMZ	Any	Any	Always		
	Add	Restore to I	Default Ru	les					Page 1 🗾	of 1 🕨 📕

Note: When you enter the Access Rules page the default access rules can not be edited.

Step 2. Click the Add button to add a new access rule.

Access F	Rules								
IPv4	IPv6								
							Item 1-3	of 3 Rows per j	page: 5 💌
Priority	Enable	Action	Service	Source Interface	Source	Destination	Time	Day	Delete
		Allow	All Traffic [1]	LAN	Any	Any	Always		
	$\overline{\mathbf{v}}$	Deny	All Traffic [1]	WAN	Any	Any	Always		
		Deny	All Traffic [1]	DMZ	Any	Any	Always		
Add	Restore to I	Default Ru	les					Page 1	of 1 🕨 💌

The Access Rules page will now show options for the Service and Scheduling areas.

Access Rules	
Services	
Action :	Allow 💌
Service :	All Traffic [TCP&UDP/1~65535]
s	Service Management
Log:	Log packets match this rule 💌
Source Interface :	DMZ 💌
Source IP :	ANY
Destination IP :	Single 192.168.10.27
Scheduling	
Time : Always 💌	
From : 00:00	(hh:mm) To : 00:00 (hh:mm)
Effective on : 🔽 Eve	eryday 🗖 Sun 🗖 Mon 🗖 Tue 🗖 Wed 🗖 Thu 🗖 Fri 🗖 Sat
Save Cano	cel

Step 3. Choose Allow from the Action drop-down list to allow the service.

Step 4. Choose **All Traffic [TCP&UDP/1~65535]** from the *Service* drop-down list to enable all services for the DMZ.

Step 5. Choose **Log packets match this rule** from the *Log* drop-down list to choose only logs that match the access rule.

Step 6. Choose **DMZ** from the *Source Interface* drop-down list. This is the source for the access rules.

Step 7. Choose Any from the Source IP drop-down list.

Step 8. Choose Single from the Destination IP drop-down list.

Step 9. Enter the IP addresses of the destination to be allowed the access rules in the *Destination IP* field.

Step 10. In the *Scheduling* area choose **Always** from the *Time* drop-down list to make the access rule active all the time.

Note: If you choose **Always** from the *Time* drop-down list, the access rule will be set by default to **Everyday** in the *Effective on* field.

Note: You can choose a specific time interval (for which the access rules are active) by selecting **Interval** from the *Time* drop-down list. Then, you can choose the days which you want the access rules to be active from the *Effective on* check boxes.

Step 11. Click **Save** to save your settings.

Note: If a popup windows appears press 'Ok' to add another access rule, or press 'Cancel' to return to the page of Access Rules.

The Access Rule you created in the previous step is now displayed

A	ccess F	Rules									
	IPv4	IPv6									
								Item	1-4 of 4 Rows per	page :	5 💌
[Priority	Enable	Action	Service	Source Interface	Source	Destination	Time	Day		Delete
	1 💌	V	Allow	All Traffic [1]	DMZ	Any	192.168.10.27 ~ 192.168.10.27	Always			Ũ
			Allow	All Traffic [1]	LAN	Any	Any	Always			
		M	Deny	All Traffic [1]	WAN	Any	Any	Always			
		$\overline{\mathbf{v}}$	Deny	All Traffic [1]	DMZ	Any	Any	Always			
	Add	Restore to D	Default Ru	les					Page 1	of 1	

Step 12. Click the **Edit** icon to edit the created access rule.

Step 13. Click the **Delete** icon to delete the created access rule.