



Sangfor NGAF

Policy-Based Routing Configuration

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Change Log

Date	Change Description
Jul. 21, 2021	This is the first release of this document.

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1 Introduction

1.1 Abbreviations and conventions

NGAF in this article refers to the SANGFOR NGAF device.

1.2 Feedback

If you find any questions about these documents, please feel free to give us feedback, email: tech.support@sangfor.com.

2 Requirements

1. Server 10.1.131.2 HTTP traffic goes through eth3 while other traffic goes through eth1.
2. Internal network users when accessing telecommunication will go through eth1 while access to China Unicom will go through eth3
3. All internal network users will go to the external network through eth1. When eth1 is down, eth3 is being used as a backup.

3 Sample Network Configuration

Following is the sample of a network configuration for testing purposes.

First, the environment must have two WAN interfaces, as shown below.

Physical Interfaces											
Subinterfaces											
VLAN Interfaces											
GRE Tunnels											
Link State Propagation											
✓ Enable ✕ Disable Refresh											
Name	Interface Status	VLAN Attribute	Type	Zone	IP Assignment	IP Address	Link Mode	MTU	Link State	Status	Operation
eth0		No	Layer 3	None	Static IPv4/Static IPv6	10.251.251.251/24	Full-duplex 10000Mbps	1500	Not detected	✓	Edit
eth1		Yes	Layer 3	Wan	Static IPv4/Static IPv6	192.200.19.187/24	Full-duplex 10000Mbps	1500	PING Normal	✓	Edit
eth2		No	Layer 3	LAN	Static IPv4/Static IPv6	192.168.1.254/24, 192.168.1.2...	Full-duplex 10000Mbps	1500	Not detected	✓	Edit
eth3		Yes	Layer 3	Wan2	Static IPv4/Static IPv6	192.200.19.185/24	Full-duplex 10000Mbps	1500	ARP Not detected yet PING Normal	✓	Edit
eth4		No	Layer 3	None	Static IPv4/Static IPv6	-	Full-duplex 10000Mbps Negotiation failed.	1500	Not detected	✓	Edit
eth5		No	Layer 3	None	Static IPv4/Static IPv6	-	Full-duplex 10000Mbps Negotiation failed.	1500	Not detected	✓	Edit

The interfaces are defined with different zone, WAN1, and WAN2.

Link State Detection is required on both the WAN interface.

The purpose of setting up the link-state detection is to facilitate the switching process of the line when the link is detected as faulty.

Static IPv4/Static IPv6	10.251.251.251/24	Full-duplex 10000Mbps	1500	Not detected	✓	Edit
Static IPv4/Static IPv6	192.200.19.187/24	Full-duplex 10000Mbps	1500	PING Normal	✓	Edit
Static IPv4/Static IPv6	192.168.1.254/24,192.168.1.2...	Full-duplex 10000Mbps	1500	Not detected	✓	Edit
Static IPv4/Static IPv6	192.200.19.185/24	Full-duplex 10000Mbps	1500	ARP Not detected yet PING Normal	✓	Edit
Static IPv4/Static IPv6	-	Full-duplex 10000Mbps Negotiation failed.	1500	Not detected	✓	Edit

3.1 Policy-Based Routes configuration

Here, the server with the source IP address of 10.1.131.2 access the external network via eth1 which is the WAN line. The configuration is as below:

- Step 1.** Fill in the policy name. (Any will do)
- Step 2.** Source Zone (where the server is located)
- Step 3.** Source IP (10.1.131.2)
- Step 4.** Destination IP group (Select all)
- Step 5.** Interface (Select eth1)
- Step 6.** Others can be kept as default.

Sample Configuration

Add Policy-Based Route

Route Type: ☒ Source-based route ☐ Link load-balancingProtocol: ☒ IPv4 ☐ IPv6

Basics

Name: Source-based routing

Status: ☒ Enabled ☐ Disabled

Description: Optional

Move To: Top

Schedule: All week

Data Packet

Src Zone: LAN

Src Address: PC1

Destination: ☒ Network Object ☐ ISP ☐ Country/Region

All

Services: any

Applications: All

Others

Outbound Interface: ☒ Interface ☐ Next-Hop IP

eth1

Link State Detection: Settings

Save and Copy

Save

Cancel

4 Policy-Based Routes based on application

This policy is created based on the default policy which we had created earlier.

Requirement: Server 10.1.131.2 HTTP traffic goes through eth3 while other traffic goes through eth1, configuration as below:

Based on the policy route we created earlier, only select the website application and then select eth3 to go out.

Configuration:

- Step 1.** Fill in the policy name (Any will do)
- Step 2.** Source Zone (where the server is located)
- Step 3.** Source IP (10.1.131.2)
- Step 4.** Destination IP group (Select all)
- Step 5.** Select HTTP application in the Application
- Step 6.** Interface (Select eth3)
- Step 7.** Others can be kept as default Sample Configuration:

Add Policy-Based Route

Route Type: ☒ Source-based route ☐ Link load-balancing

Protocol: ☒ IPv4 ☐ IPv6

Basics

Name: Application-based routing

Status: ☐ Enabled ☐ Disabled

Description:

Move To:

Schedule: ☐ All week ☐ Not data

Data Packet

Src Zone: ☒ All

Src Address:

Destination: ☒ Visit Web Site

Services

Applications:

Others

Outbound Interface: ☒ Interface ☐ Next-Hop IP

eth3

Link State Detection:

The policy we have created for the server is as below:

<input type="checkbox"/>	1	Application-base...	ipv4	LAN	PC1	All	http/https	Visit Web Sit...	eth3-192.200.19.1	-	All week	Not detected	✓
<input type="checkbox"/>	2	Source-based ro...	ipv4	LAN	PC1	All	any	-	eth1-192.200.19.1	-	All week	Not detected	✓

With this, we have realized the requirement which is allowing the server 10.1.131.2 HTTP traffic goes through eth3 while other traffic goes through eth1.

5 Policy-based routing based on destination IP address

Effect:

This policy-based route allows the customer to conveniently select the line based on the destination IP. It is common to access the telecommunication via the telecommunication interface and access China Unicom via the China Unicom interface.

Requirement:

Internal network users when accessing telecommunication will go through eth1 while access to China Unicom will go through eth3.

Configuration:

- Step 1.** Fill in the policy name (Any will do)
- Step 2.** Source Zone (where the internal network user is located)
- Step 3.** Source IP
- Step 4.** Destination IP group (Select telecommunication ISP)
- Step 5.** Select HTTP application in the Application
- Step 6.** Interface (Select eth1)
- Step 7.** Others can be kept as default

Sample Configuration:

Add Policy-Based Route

Route Type: ☒ Source-based route ☐ Link load-balancingProtocol: ☒ IPv4 ☐ IPv6

Basics

Name: Destination-based routing

Status: ☒ Enabled ☐ Disabled

Description: Optional

Move To: Bottom

Schedule: All week

Data Packet

Src Zone: LAN

Src Address: All

Destination: ☐ Network Object ☒ ISP ☐ Country/Region

Telecommunication

Services: any

Applications: All

Others

Outbound Interface: ☒ Interface ☐ Next-Hop IP

eth1

Link State Detection: Settings

Save and Copy

Save

Cancel

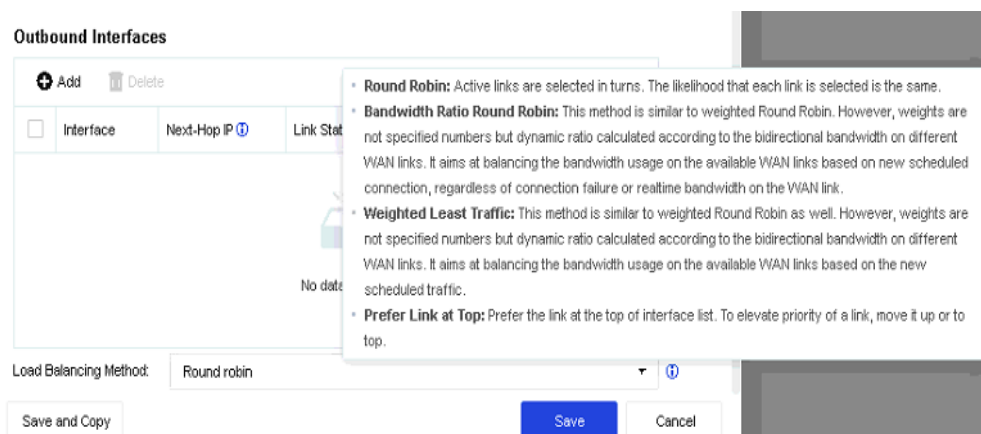


After the policy has been configured, the policy will be added at the top by default. Since the policy here is matched from top to bottom, it is necessary to move this policy to the back to ensure that the previous policy does not become invalid. As follows:

Static Routes		Policy-Based Routes	Multicast Routes	OSPF	RIP	BGP	All Routes	Route Testing					
<div><div><div><div><div><div></div></div></div><div><div></div></div></div><div><div><div><div>+</div></div></div><div><div></div></div></div><div><div><div><div></div></div></div><div><div></div></div></div></div><div><div><div><div></div></div></div><div><div></div></div></div></div> <div><div><div><div></div></div></div><div><div></div></div></div> <div><div><div><div></div></div></div><div><div></div></div></div> <div><div><div><div></div></div></div><div><div></div></div></div> <div><div><div><div></div></div></div><div><div></div></div></div> <div><div><div><div></div></div></div><div><div></div></div></div> <div><div><div><div></div></div></div><div><div></div></div></div> <div><div><div><div></div></div></div><div><div></div></div></div> <div><div><div><div></div></div></div><div><div></div></div></div> <div><div><div><div></div></div></div><div><div></div></div></div> <div><div><div><div></div></div></div><div><div></div></div></div> 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6 Link Load-Balancing Route

In the multi-wan scenario, the link-load balancing route can be used to prevent wasting bandwidth. There are four types of policy for link-load balancing:



Requirements: All internal network users will go to the external network through eth1. The method being chosen here is **Prefer Link at Top**.

Configuration:

- Step 1.** Fill in the policy name (Any will do)
- Step 2.** Source Zone (where the internal network user is located)
- Step 3.** Source IP (All)
- Step 4.** Destination IP group (All)
- Step 5.** Select HTTP application in the Application
- Step 6.** Interface (Select eth1 and eth3)
- Step 7.** Others can be kept as default Sample Configuration:

Add Policy-Based Route

X

Route Type:

☐ Source-based route

☒ Link load-balancing

Protocol:

☒ IPv4

☐ IPv6

Basics

Name:

Link Load-Balancing

Status:

☒ Enabled

☐ Disabled

Description:

Optional

Move To:

Top

Schedule:

All week

Data Packet

Src Zone:

LAN

Src Address:

All

Destination:

☒ Network Object

☐ ISP

☐ Country/Region

All

Services:

https,http

Applications:

Visit Web Site,NET Protocol/HTTP-TRACE,NET Protocol/HTTP_proxy,NET ...

Outbound Interfaces

+ Add

Delete

<input type="checkbox"/>	Interface	Next-Hop IP ⓘ	Link State ⓘ	Operation	...
<input type="checkbox"/>	eth1	-	Normal	Move Up Move Down Delete	
<input type="checkbox"/>	eth3	-	Normal	Move Up Move Down Delete	

Save and Copy

Save

Cancel

Services:

https,http

Applications:

Visit Web Site,NET Protocol/HTTP-TRACE,NET Protocol/HTTP_proxy,NET ...

Outbound Interfaces

+ Add

Delete

<input type="checkbox"/>	Interface	Next-Hop IP ⓘ	Link State ⓘ	Operation	...
<input type="checkbox"/>	eth1	-	Normal	Move Up Move Down Delete	
<input type="checkbox"/>	eth3	-	Normal	Move Up Move Down Delete	

Load Balancing Method:

Prefer link at top ⓘ

Save and Copy

Save

Cancel

Results:

Static Routes

Policy-Based Routes

Multicast Routes

OSPF

RIP

BGP

All Routes

Route Testing

+

Add

Delete

Enable

Disable

More

Refresh

IPv4

IPv6

<input type="checkbox"/>	No.	Name	Protocol	Src Zone	Src Address	Dst Address/Region	Services	Applications	Interface-Next Hop IP	Load Balancing Method	Schedule	Link State	Status
<input type="checkbox"/>	1	Link Load-Balan...	ipv4	LAN	All	All	https/http	Visit Web St...	eth1-192.200.19.1...	Prefer link at top	All week	Not detected	✓
<input type="checkbox"/>	2	Application-base...	ipv4	LAN	PC1	All	http/https	Visit Web St...	eth3-192.200.19.1	-	All week	Not detected	✓
<input type="checkbox"/>	3	Source-based ro...	ipv4	LAN	PC1	All	any	-	eth1-192.200.19.1	-	All week	Not detected	✓
<input type="checkbox"/>	4	Destination-base...	ipv4	LAN	All	Telecommunication	any	All	eth1-192.200.19.1	-	All week	Not detected	✓



After the policy has been configured, the policy will be added at the top by default. Since the policy here are matched from top to bottom, it is necessary to move this policy to the back to ensure that the previous policy does not become invalid. As follows:

Static Routes		Policy-Based Routes	Multicast Routes		OSPF		RIP		BGP		All Routes		Route Testing			
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