

# NGAF Route Mode Deployment Guide

Version 8.0.35



## Change Log

Date	Change Description
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## **Chapter 1 Applicable Scenario**



This deployment is suit on those environments which require Sangfor NGAF deploy as network gateway or replace gateway router.

## **Chapter 2 Configuration Steps**

## 2.1 Configure Interfaces and Zone

1. Zone Configuration:

Access **Network > Zones** to add or modify the zone configuration.

Name: WAN / LAN

Forward Mode: Route (Layer 3)

Network	⊒ Zo	nes												
📾 Interfaces		Add   🛅 🗆	Delete   C Refresh											
🔀 Zones	*	Name		Туре			Interfaces		In Use		C	peration		
曲 Routes		WAN		Layer 3			eth1		In use		E	dit Dele	te	
🗀 Virtual Wires		LAN		Layer 3			eth2		In use		E	dit Dele	te	
倡 DNS	>	L2_WAN		Layer 2			-		None		E	dit Dele	te	
T DHCP	•	L2_LAN		Layer 2			-		None		E	dit Dele	te	
⊡‡ ARP		L3_MGT		Layer 3			-		None		E	dit Dele	te	
		VW_WAN		Virtual wire			-		None		E	dit Dele	te	
Edit Zone				:	× E	dit Zone	•							×
Name: WAN						Name:		LAN						
Type: Layer 2	. <b>o</b> i	ayer 3	O Virtual wire			Type:		C Layer 2	<b>0</b> L	ayer 3	O Virtual	wire		
Interfaces						Interfac	es							
Available (2)		Selected (1)		Clear		E Ava	ailable (2)			Selected (1)			Clea	r
Search	Q	Search		Q		Sear	ch		Q	Search			Q	
eth0		eth1				eth	)			eth2				
vpntun						vpn	tun							
✓ eth1						🗹 eth2	2							
			Save	Cancel							Sa	/e	Can	cel

2. Access to **Network** > **Interfaces** to configure eth 1 and eth2 as WAN and LAN interface as figure shown below:

dit Physical I	nterface		
Basics			
Name:	eth1		
Status:	🔾 Enabled 🛛 D	isabled	
Description:	Optional		
Type:	Layer 3		-
Zone:	WAN		•
Basic Attributes:	VWN attribute		
System Upgrade	Temporarily use the	is interface for system upgrade 🛈	
IPv4	IPv6 Link State	Detection Advanced	
IP Assignn	ent: O Static	O DHCP O PPPoE	
	Static IP:	192.200.19.185/24	٦
	Next-Hop IP	192.200.19.1	۵
Link Bandwidth:	Outbound 1024	Mbps • Inbound 1024	Mbps •
Management	Service		
Allow:	🖌 WEBUI 🔽 PI	ING 🗌 SNMP 🗹 SSH	

#### Edit Physical Interface

Basics									
Name:	eth2	eth2							
Status:	O Enal	Enabled Disabled							
Description:	Option	nal							
Туре:	Layer	3		•					
Zone:	LAN			•					
Basic Attributes:	WAN	N attribute							
System Upgrade:	🗌 Tem	porarily use this interfa	ce for system upgrade (i)						
IPv4	IPv6	Link State Detectio	n Advanced						
IP Assignme	ent:	• Static ODH	CP O PPPoE						
		Static IP:	192.168.1.1/24	(î)					
		Next-Hop IP:		0					
Link Bandwidth:	Outbour	d 1000	Mbps The Inbound 1000	Mbps 💌					
Management S	ervice								
Allow:	VEE WEE	BUI 🔽 PING	SNMP 🗹 SSH						
			s	ave Cance	el				

### 2.2 Configure Route

#### 2.2.1 Configure Default Route

1. Access to **Network** > **Routes** > **Static Routes**. Click **Add** to add new default route in NGAF as shown in figure below:

Add Static Route			×
Add:	One Route	O Multiple Routes	
Protocol:	O IPv4	O IPv6	
Basics			
Status:	Enabled	O Disabled	
Description:	Optional		
Details			
Dst IP/Netmask:	0.0.0/0.0.0.0		١
Next-Hop IP:	192.200.19.1		1
Interface:	eth1	•	0
Advanced			
Link State Detection ①:	C Enable	O Disable	
Metric:	0		
Save and Add		Save	ancel

#### 2.2.2 Configure Return Route

Return Route for 192.168.2.0/24 Segment

1. Access to **Network** > **Routes** > **Static Routes**. Click **Add** to add new return route in NGAF as shown in figure below:

Add Static Route			×
Add:	One Route	Multiple Routes	
Protocol:	O IPv4	O IPv6	
Basics			
Status:	Enabled	Disabled	
Description:	Optional		
Details			
Dst IP/Netmask:	192.168.2.0/24		(i)
Next-Hop IP:	192.168.1.1		0
Interface:	Auto	•	١
Advanced			
Link State Detection ①:	Enable	O Disable	
Metric:	0		
Save and Add		Save	ancel

#### 2.3 NAT Configuration

1. Go to **Policies** > **NAT**. Click **Add** and select **Source NAT** to configure SNAT for internal device access internet as image shown below:

#### Edit NAT Policy

LAN Zone LAN Internal Host		Access Public Ho	st	Translated Src IP Outbound Interface	Public Zone WAN
Туре:	Source NAT	Oestinatio	on N/	AT C	Bidirectional NAT
Basics					
Name:	SNAT				
Status:	Enabled	Disabled			
Description:	Optional				
Schedule:	All week				-
Original Data Pac	ket			Translated Data Pa	acket
Src Zone:	LAN	•		Translate Src IP To:	Outbound Interface -
Src Address:	Internal	-		Translate Dst IP To:	Untranslated
Dst Zone/Interface:	O Zone	Interface	>>	Translate Dst Port To:	Untranslated
Dst Address:	All	•			
Services:	any	•			
					Save Cancel

×

#### 2.4 Access Control

Configure application control policy to allow the internal to access internet.

1. Go to Policies > Access control > Application control to configure an allow policy as figure shown below:

Edit Applicatio	n Control Policy			×
Basics				
Name:	Allow All			
Status:	Enabled	O Disabled		
Description:	Optional			
Policy Group:	1.Default Policy Gro	ир	*	
Tag:	Optional		•	
Source				
Src Zone:	LAN		•	
Src Address:	Network Objects	User/Group		
	Internal		•	
Destination				
Dst Zone:	WAN		•	
Dst Address:	All		•	
Services:	any		•	
Applications:	All		•	
Others				
Action:	<ul> <li>Allow</li> </ul>	ODeny		
			Save	Cancel

### 

By default, NGAF pre configured an Application Control policy to deny all the service and user need to manually to allow the certain service. User can configure other policy based on their needs as well.

#### 2.5 Result

1. Access to one of the PC to do some ping test and use browser to access website.







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