



SANGFOR

NGAF

Panduan dengan menggunakan Route Mode

Versi 8.0.35

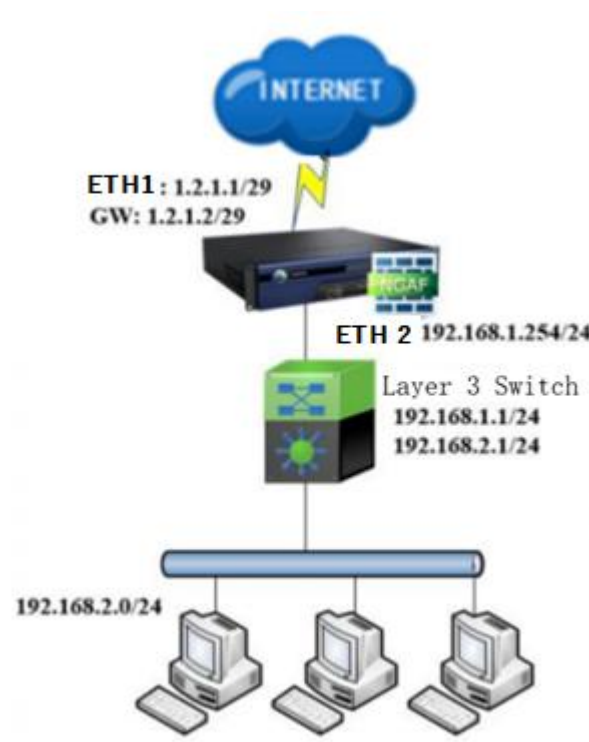
Data Perubahan

Tanggal	Keterangan Perubahan
14/6/2021	Pembaruan dokumen untuk NGAF v8035

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BAB 1 Skenario Penerapan



Penerapan ini sesuai untuk lingkup yang memerlukan Sangfor NGAF sebagai gateway jaringan atau mengganti router gateway.

BAB 2 Lengkap Konfigurasi

2.1 Konfigurasi pada Interfaces dan Zone

1. Konfigurasi Zone:

Pada **Network > Zones** untuk menambah atau merubah konfigurasi zone.

Nama: WAN / LAN

Forward Mode: Route (Layer 3)

The screenshot displays the Mikrotik WinBox interface. On the left, the 'Network' sidebar is visible with 'Zones' selected. The main panel shows the 'Zones' configuration page with a table of existing zones.

Name	Type	Interfaces	In Use	Operation
WAN	Layer 3	eth1	In use	Edit Delete
LAN	Layer 3	eth2	In use	Edit Delete
L2_WAN	Layer 2	-	None	Edit Delete
L2_LAN	Layer 2	-	None	Edit Delete
L3_MGT	Layer 3	-	None	Edit Delete
VW_WAN	Virtual wire	-	None	Edit Delete

Below the table, two 'Edit Zone' dialog boxes are shown side-by-side. The left dialog is for the 'WAN' zone, and the right is for the 'LAN' zone. Both dialogs show the 'Type' as 'Layer 3' and the 'Interfaces' section with a list of available interfaces and a selected interface.

Edit Zone (WAN):

- Name: WAN
- Type: Layer 3 (selected)
- Interfaces: Available (2) [eth0, vpntun, eth1], Selected (1) [eth1]

Edit Zone (LAN):

- Name: LAN
- Type: Layer 3 (selected)
- Interfaces: Available (2) [eth0, vpntun, eth2], Selected (1) [eth2]

Each dialog has 'Save' and 'Cancel' buttons at the bottom.

2. Pada **Network > Interfaces** untuk konfigurasi eth 1 dan eth2 sebagai interface WAN dan LAN seperti gambar di bawah ini:

Edit Physical Interface

Basics

Name:

eth1

Status:

☒ Enabled ☐ Disabled

Description:

Optional

Type:

Layer 3

Zone:

WAN

Basic Attributes:

☒ WAN attribute

System Upgrade:

☐ Temporarily use this interface for system upgrade

IPv4

IPv6

Link State Detection

Advanced

IP Assignment:

☒ Static ☐ DHCP ☐ PPPoE

Static IP:

192.200.19.185/24

Next-Hop IP:

192.200.19.1

Link Bandwidth:

Outbound

1024

Mbps

Inbound

1024

Mbps

Management Service

Allow:

☒ WEBUI ☒ PING ☐ SNMP ☒ SSH

Save

Cancel

Edit Physical Interface



Basics

Name: eth2

Status: ☒ Enabled ☐ Disabled

Description: Optional

Type: Layer 3

Zone: LAN

Basic Attributes: ☐ WAN attribute

System Upgrade: ☐ Temporarily use this interface for system upgrade

IPv4

IPv6

Link State Detection

Advanced

IP Assignment:

☒ Static ☐ DHCP ☐ PPPoE

Static IP:

192.168.1.1/24

Next-Hop IP:

Link Bandwidth:

Outbound

1000

Mbps

Inbound

1000

Mbps

Management Service

Allow: ☒ WEBUI ☒ PING ☐ SNMP ☒ SSH

Save

Cancel

2.2 Konfigurasi Route

2.2.1 Konfigurasi Static Route

1. Pada **Network > Routes > Static Routes**, klik **Add** untuk menambahkan static route pada NGAF seperti gambar di bawah ini:

Add Static Route



Add: ☒ One Route ☐ Multiple Routes

Protocol: ☒ IPv4 ☐ IPv6

Basics

Status: ☒ Enabled ☐ Disabled

Description: Optional

Details

Dst IP/Netmask: 0.0.0.0/0.0.0.0

Next-Hop IP: 192.200.19.1

Interface: eth1

Advanced

Link State Detection : ☐ Enable ☒ Disable

Metric: 0

Save and Add

Save

Cancel

2.2.2 Konfigur Return Route

Return Route untuk Segment 192.168.2.0/24

1. Pada **Network > Routes > Static Routes**, klik **Add** untuk menambahkan return route baru dalam NGAF seperti gambah dibawah ini:

Add Static Route ×

Add: ☒ One Route ☐ Multiple Routes

Protocol: ☒ IPv4 ☐ IPv6

Basics

Status: ☒ Enabled ☐ Disabled

Description:

Details

Dst IP/Netmask: ⓘ

Next-Hop IP: ⓘ

Interface: ⓘ

Advanced

Link State Detection ⓘ: ☐ Enable ☒ Disable

Metric:

Save and Add

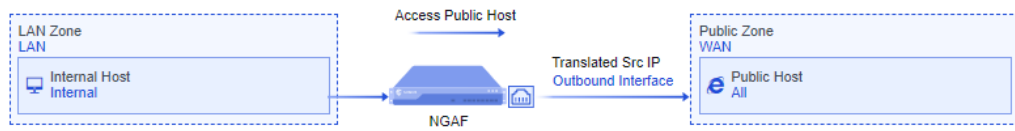
Save

Cancel

2.3 Konfigurasi NAT

1. Pada **Policies > NAT**, klik **Add** dan pilih **Source NAT** untuk konfigurasi SNAT berguna untuk perangkat internal mengakses internet.

Edit NAT Policy



Type: ☒ Source NAT ☐ Destination NAT ☐ Bidirectional NAT

Basics

Name:

Status: ☒ Enabled ☐ Disabled

Description:

Schedule:

Original Data Packet

Src Zone:

Src Address:

Dst Zone/Interface: ☒ Zone ☐ Interface

Dst Address:

Services:

Translated Data Packet

Translate Src IP To:

Translate Dst IP To:

Translate Dst Port To:

Save

Cancel

2.4 Access Control

Konfigurasi **application control policy** untuk memperbolehkan internal menuju akses internet.

1. Pada **Policies > Access control > Application control** konfigurasi untuk aturan memperbolehkan seperti gambar berikut di bawah ini:

Edit Application Control Policy ×

Basics

Name:

Status: ☒ Enabled ☐ Disabled

Description:

Policy Group:

Tag:

Source

Src Zone:

Src Address: ☒ Network Objects ☐ User/Group

Destination

Dst Zone:

Dst Address:

Services:

Applications:

Others

Action: ☒ Allow ☐ Deny



PERHATIAN

Pada umumnya, NGAF telah terkonfigurasi semua tidak boleh untuk semua service/layanan pada Application Control policy pengguna perlu untuk menambahkan yang diperbolehkan sesuai dengan service/layanan yang diperlukan. Pengguna dapat mengkonfigur policy lainnya sesuai dengan kebutuhannya.

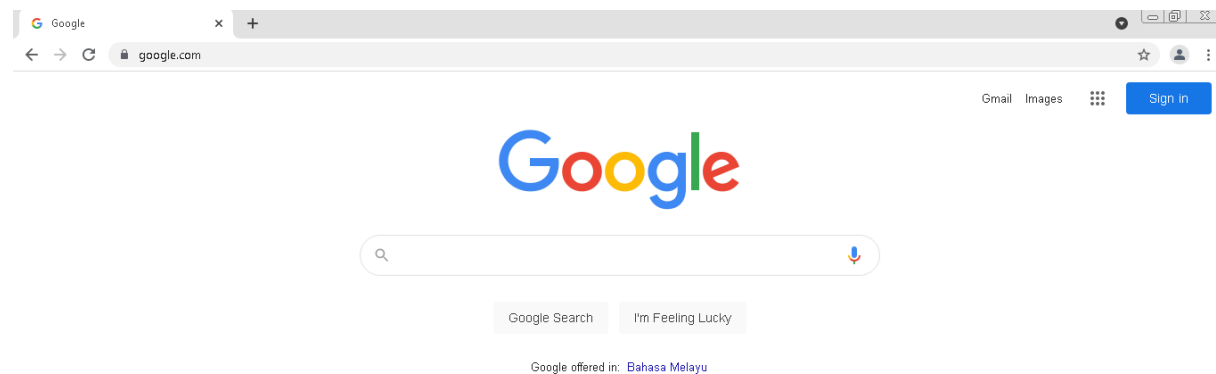
2.5 Hasil

1. Pada salah satu PC lakukan pengujian dengan menggunakan ping lalu gunakan perambah/browser untuk membuka laman situs/website.

```
C:\Users\...>ping google.com

Pinging google.com [172.217.31.46] with 32 bytes of data:
Reply from 172.217.31.46: bytes=32 time=20ms TTL=117
Reply from 172.217.31.46: bytes=32 time=20ms TTL=117
Reply from 172.217.31.46: bytes=32 time=20ms TTL=117
Reply from 172.217.31.46: bytes=32 time=19ms TTL=117

Ping statistics for 172.217.31.46:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 19ms, Maximum = 20ms, Average = 19ms
```





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