

IAM

VLAN Deployment Guide

Version 12.0.18



Change Log

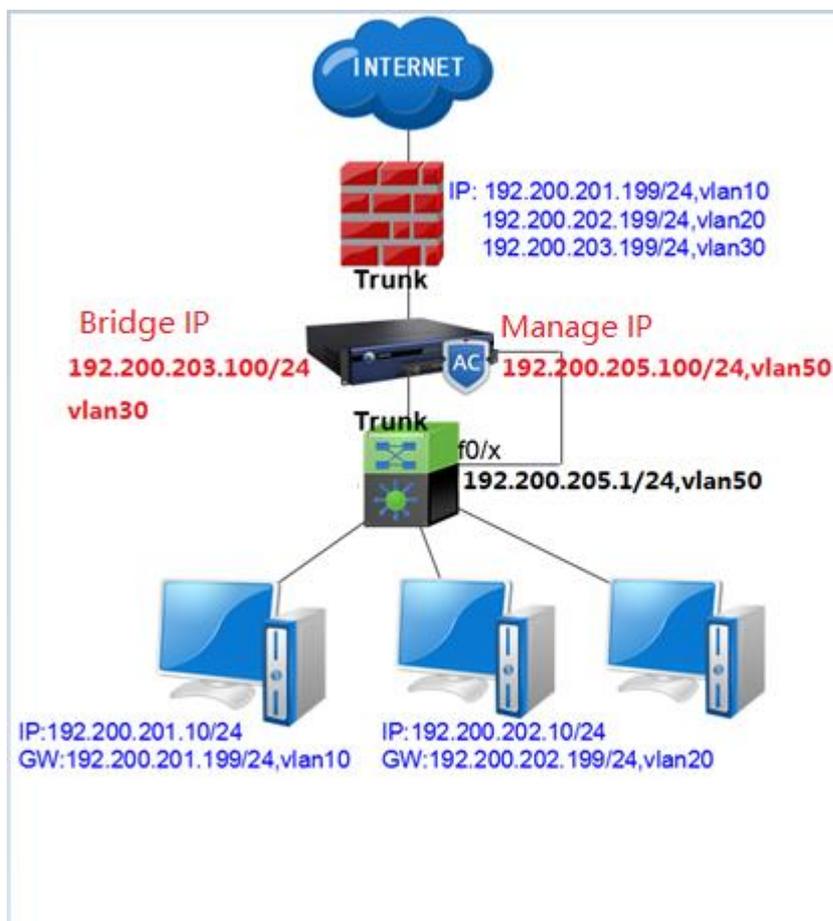
Date	Change Description
July 1, 2019	Version 12.0.18 document release.

CONTENT

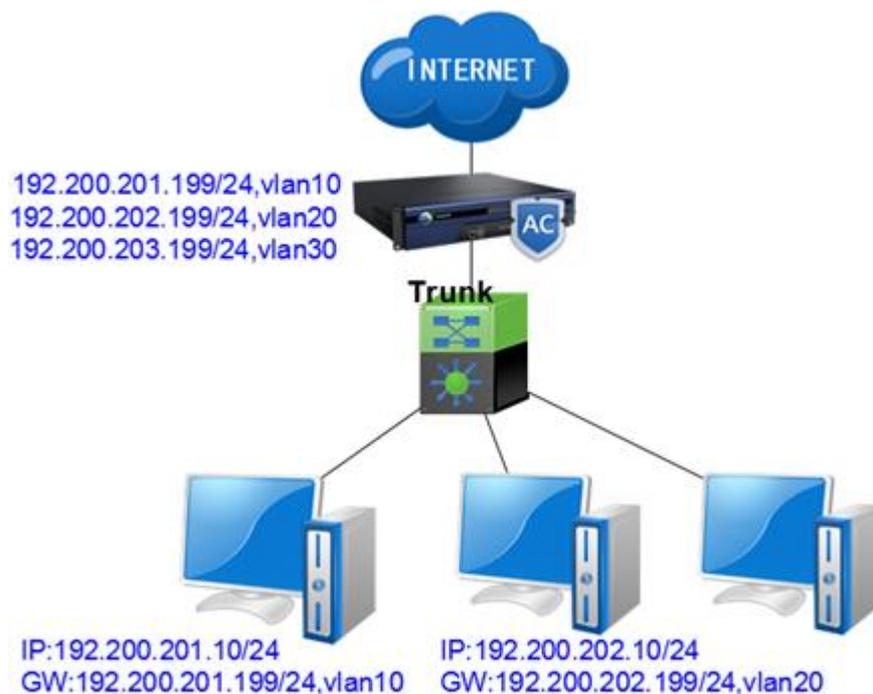
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1 Application Scenarios

Scenario 1: IAM is deployed in bridge mode between the core switch and the front firewall, multiple VLAN data pass through the device. x version bridge mode uses virtual IP for redirection and management of IAM device, at this time there is no need to configure the bridge IP. However, when the IAM device wants to update the database, then need to configure the bridge IP or management address to let IAM access to the Internet.



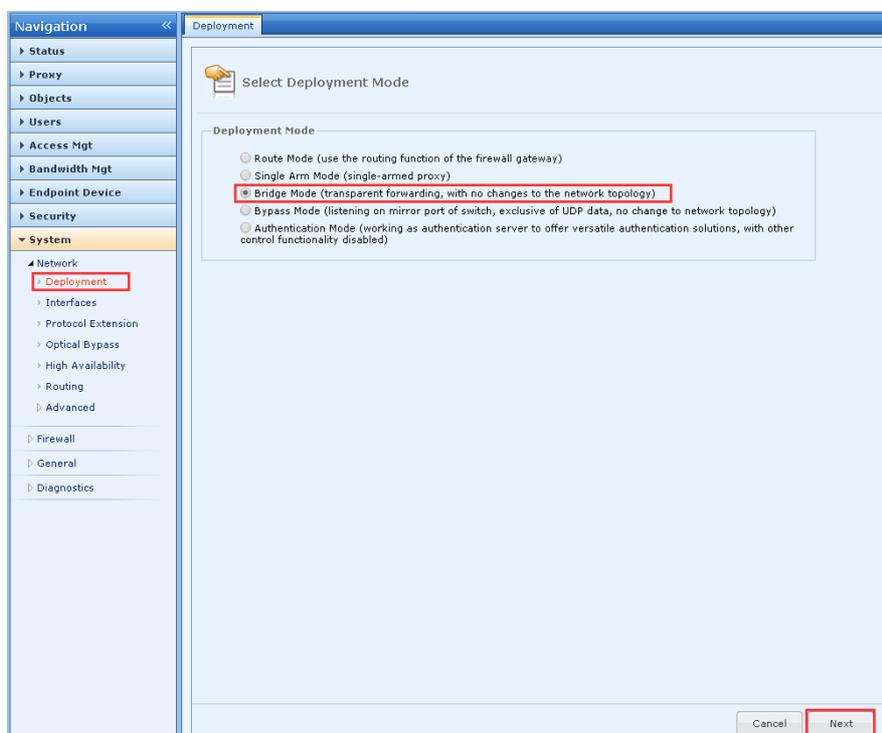
Scenario 2: The IAM is deployed in route mode above the core switch as a network exit. The gateway of each VLAN points to the IAM device.



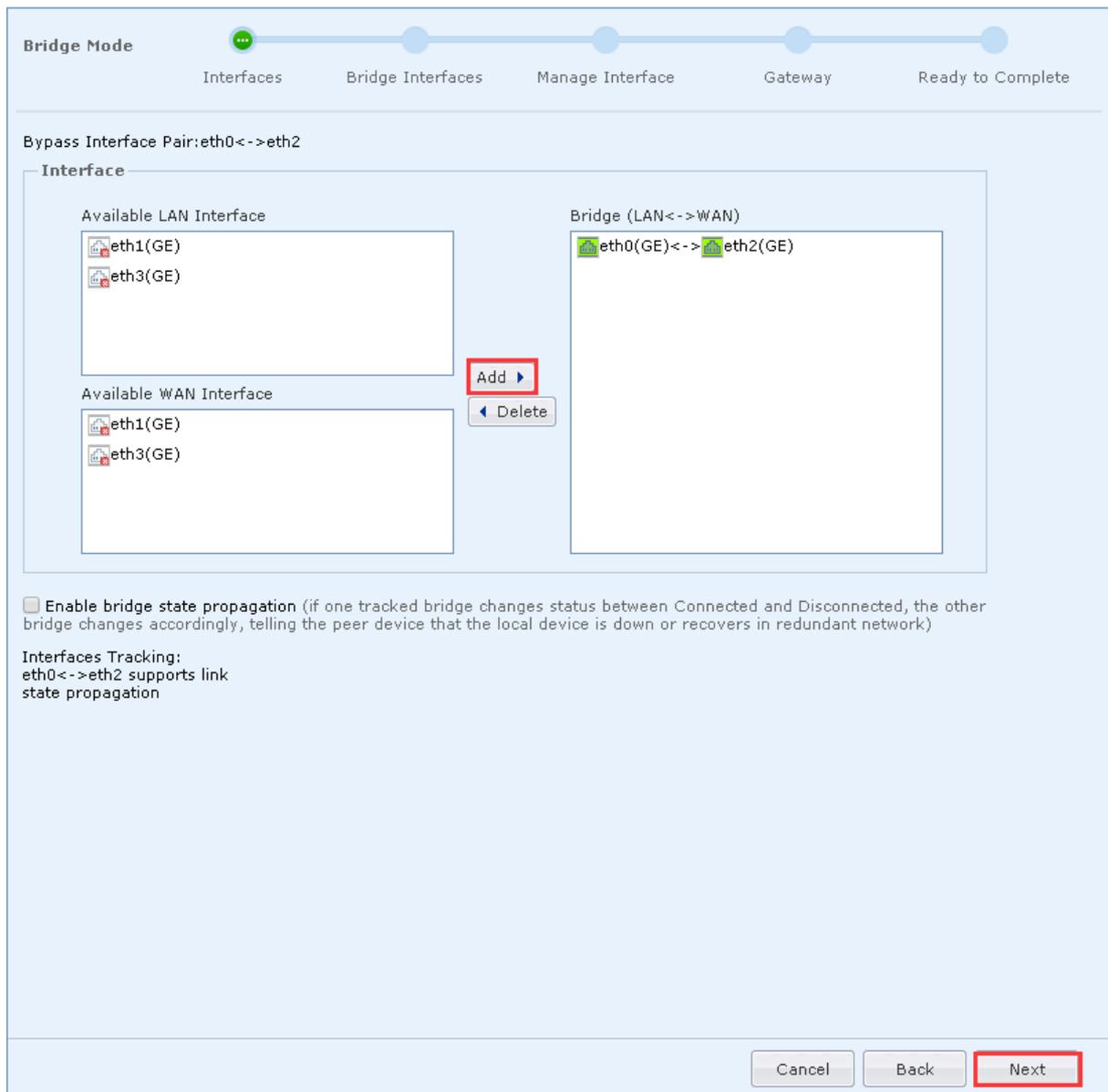
2 Configuration Steps

2.1 Scenario 1: Bridge mode deployment

1. Configure the deployment mode as bridge mode.



2. Select the interface list.



3. Configure the bridge IP address. (optional step, if you use the management port to manage the device, you no need to configure the bridge address)

Bridge Mode

Interfaces Bridge Interfaces Manage Interface Gateway Ready to Complete

Bridge1(eth0<->eth2)

IPv4

IP Address: One entry per row. IP address, subnet and VLAN ID support. Examples:
200.200.20.1/255.255.255.0, 88/200.200.20.5/255.255.255.0

30/192.200.203.100/255.255.255.0

IPv6

Cancel Back Next

4. Configure the management port. (optional step, if the bridge IP is configured to manage the device, you no need to configure the management port)

Bridge Mode

Interfaces Bridge Interfaces Manage Interface Gateway Ready to Complete

Manage Interface: eth1

IPv4

IP Address: One entry per row. IP address, subnet and VLAN ID support. Examples:
200.200.20.1/255.255.255.0, 88/200.200.20.5/255.255.255.0

10.252.252.252/255.255.255.0
50/192.200.205.100/255.255.255.0

IPv6

Cancel Back Next

5. Configure the gateway and DNS, used for the device to online update the database.

Note: If you use a bridge to manage the device, the default gateway is the gateway address of the bridge address (that is, 192.200.203.199); if you use the management port to manage the device, the default gateway is the gateway of the management port (that is, 192.200.205.1).

Bridge Mode

Progress: Interfaces ✓ Bridge Interfaces ✓ Manage Interface ✓ Gateway ● Ready to Complete ●

IPv4

Default Gateway:	<input type="text" value="192.200.203.199"/>
Preferred DNS:	<input type="text" value="180.76.76.76"/>
Alternate DNS:	<input type="text" value="114.114.114.114"/>

IPv6

Bypass firewall rule (recommended, this allows data flow between WAN and LAN interfaces)

Buttons: Cancel Back **Next**

6. Applying the configuration will prompt you to restart the device.

The screenshot displays a configuration interface for Bridge Mode. At the top, a progress bar shows five steps: Interfaces, Bridge Interfaces, Manage Interface, Gateway, and Ready to Complete, all marked with checkmarks. Below the progress bar, the configuration details are as follows:

- MANAGE Interface (eth1): 10.252.252.252/255.255.255.0
50/192.200.205.100/255.255.255.0
- Bypass firewall rule: Enable
- Default Gateway: 192.200.203.199
- Preferred DNS: 180.76.76.76
- Alternate DNS: 114.114.114.114

A section titled **Bridge 1 (eth0<->eth2)** contains the following configuration:

- Bridge Interface: 30/192.200.203.100/255.255.255.0
- Bridge: eth0<->eth2

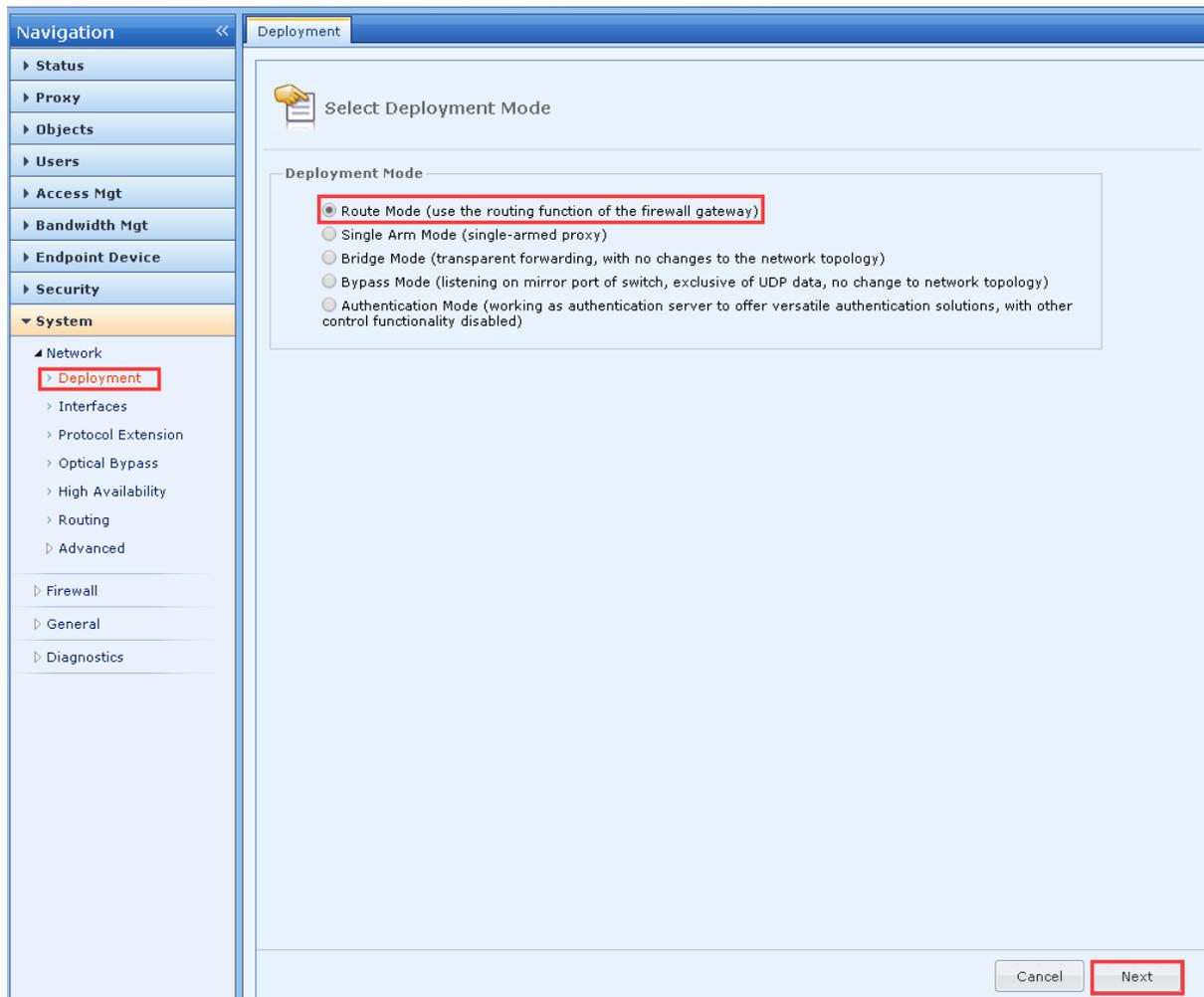
At the bottom right of the configuration area, there are three buttons: **Cancel**, **Back**, and **Commit**. The **Commit** button is highlighted with a red border.

Below the configuration area, a **Deployment** dialog box is open. It features a question mark icon and the text: "The device is required to restart if you save changes to deployment mode. Are you sure to continue and log in again later?". At the bottom of the dialog, there are two buttons: **Yes** and **No**. The **Yes** button is highlighted with a red border.

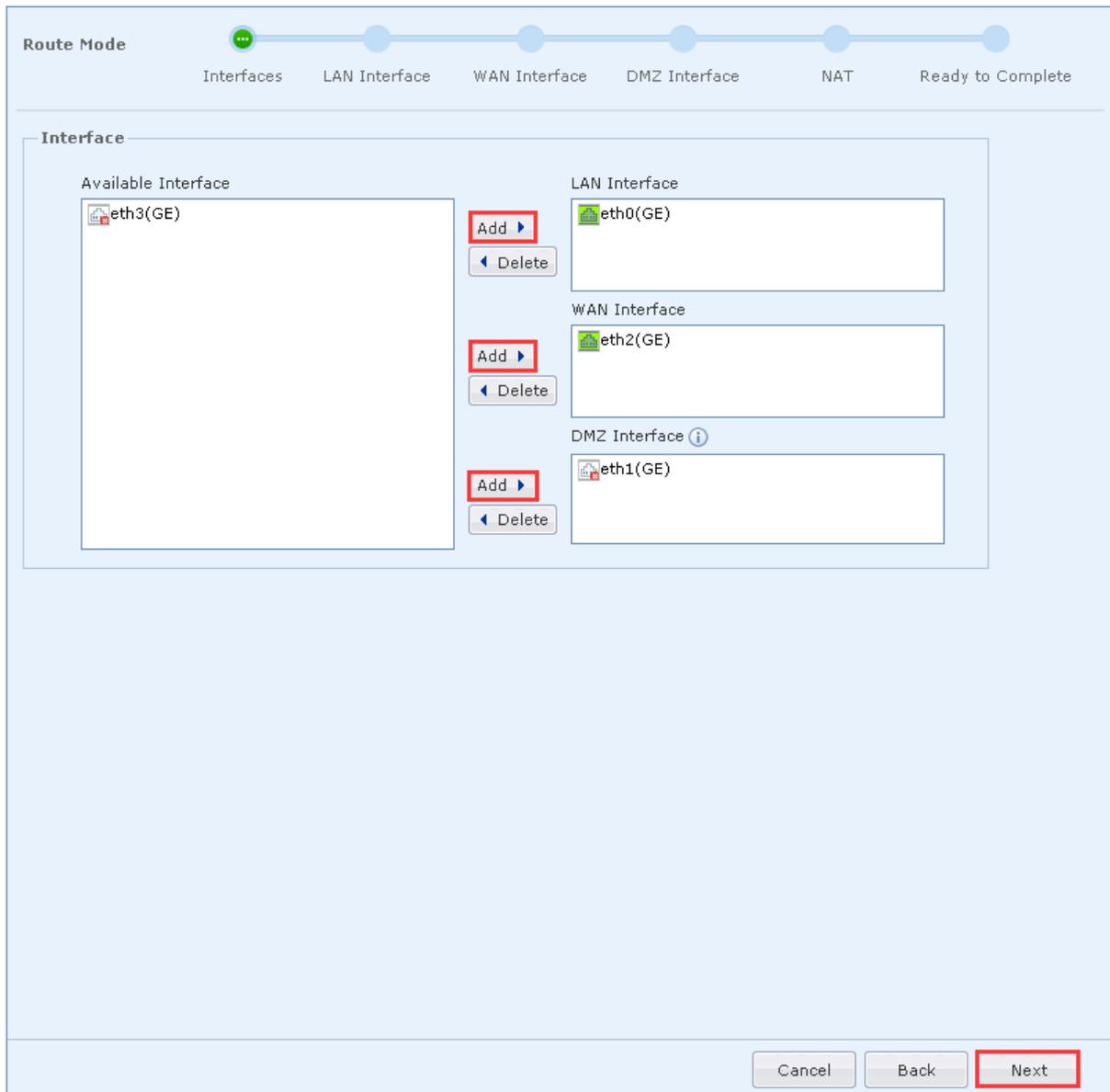
7. Create a new authentication policy, set the corresponding authentication policy according to customer requirements, and the device can be put on use.

2.2 Scenario 2: Route mode deployment

1. Configure the deployment mode as route mode.



2. Select the interface list.



3. Configure the LAN port.

Route Mode

Interfaces LAN Interface WAN Interface DMZ Interface NAT Ready to Complete

eth0

IPv4

IP Address: One entry per row. Separate IP address and mask with forward slash(/). VLAN ID support. Examples: 200.200.20.1/255.255.255.0, 200.200.20.1-200.200.20.5/255.255.255.0, 88/200.200.20.5/255.255.255.0. If VLAN ID is changed, the DHCP server must be changed accordingly.

10/192.200.201.199/255.255.255.0
20/192.200.202.199/255.255.255.0
30/192.200.203.199/255.255.255.0

IPv6

Cancel Back Next

4. Configure the WAN port and configure the gateway and DNS.

Route Mode

Interfaces LAN Interface WAN Interface DMZ Interface NAT Ready to Complete

eth2

Address: Specified

IPv4

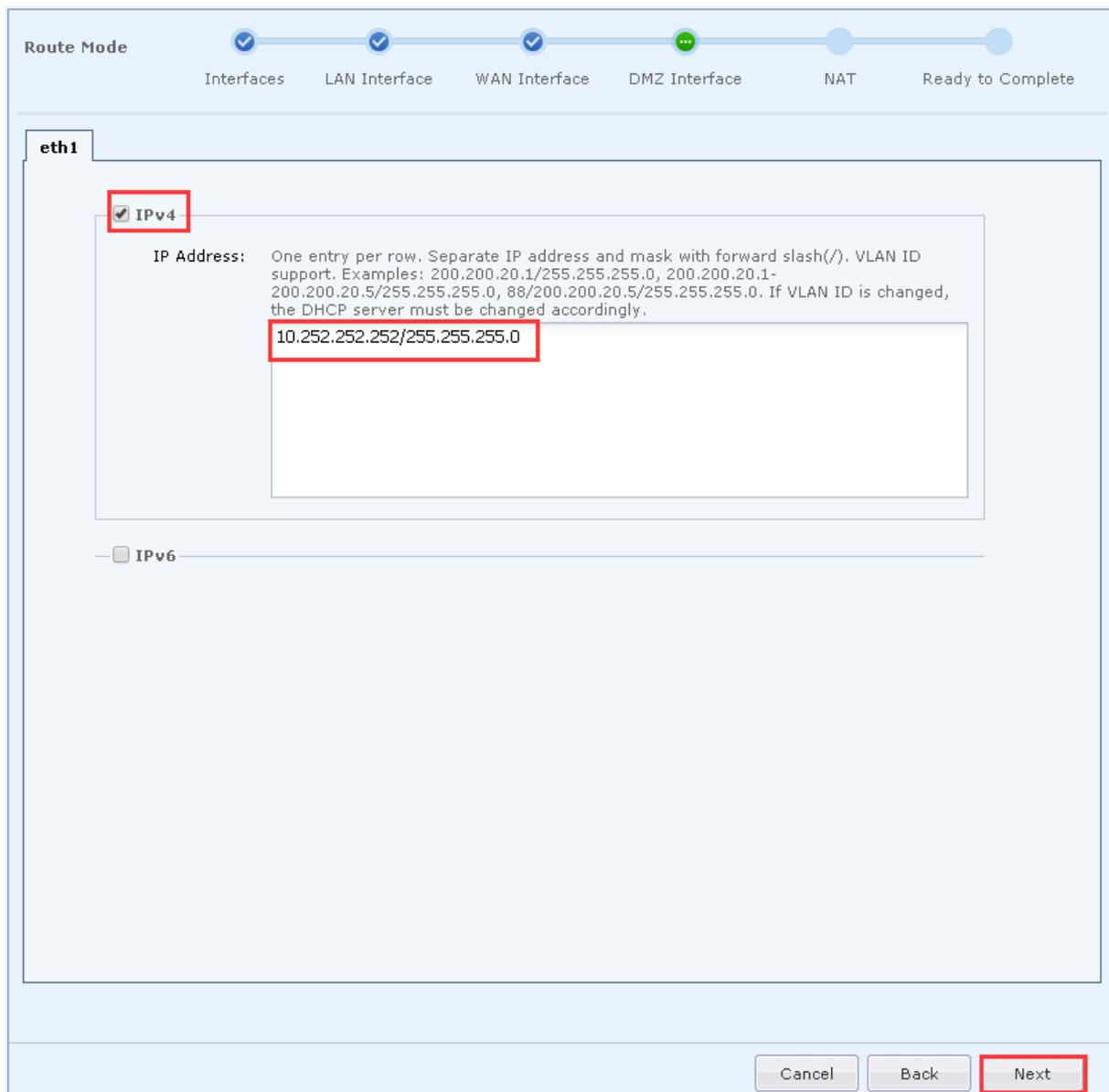
IP Address: One entry per row. Subnet and IP range support. Examples:
200.200.20.1/255.255.255.0 200.200.20.1-200.200.20.5/255.255.255.0

IP Address:	10.1.2.16/255.255.255.0
Default Gateway:	10.1.2.1
Preferred DNS:	180.76.76.76
Alternate DNS:	114.114.114.114

IPv6

Cancel Back Next

5. Configure the DMZ port.



6. Configure the NAT to access the Internet.

Route Mode

Progress: Interfaces (checked), LAN Interface (checked), WAN Interface (checked), DMZ Interface (checked), NAT (active), Ready to Complete

Name: Source NAT

WAN Interface: Any WAN interface

Source Address: One entry per row. IPv4 address and netmask are separated by forward slash(/). Example: 192.168.0.1/255.255.255.0

192.200.201.0/255.255.255.0
192.200.202.0/255.255.255.0
192.200.203.0/255.255.255.0

Map Src IP To: WAN interface IP

[DNS Service](#)
[ALG NAT and ESP](#)

Buttons: Cancel, Back, Next

7. Applying the configuration will prompt you to restart the device

Route Mode

Interfaces LAN Interface WAN Interface DMZ Interface NAT Ready to Complete

LAN Interface

eth0

IP Address: 10/192.200.201.199/255.255.255.0
20/192.200.202.199/255.255.255.0
30/192.200.203.199/255.255.255.0

WAN Interface

eth2

Line Type: Ethernet
IP Address: 10.1.2.16/255.255.255.0
Default Gateway: 10.1.2.1
Preferred DNS: 180.76.76.76
Alternate DNS: 114.114.114.114

DMZ Interface

eth1

IP Address: 10.252.252.252/255.255.255.0

NAT

Name: Source NAT
WAN Interface: Any WAN interface
Source Address: 192.200.201.0/255.255.255.0
192.200.202.0/255.255.255.0
192.200.203.0/255.255.255.0
Mapped Src IP: WAN interface IP

Cancel Back **Commit**

Deployment [X]

? The device is required to restart if you save changes to deployment mode. Are you sure to continue and log in again later?

Yes No

8. Create a new authentication policy, set the corresponding authentication policy according to customer requirements, and the device can be put on use.

3 Precautions

1. After the device sets the default gateway, it will generate a default route, which does not need to be added again.
2. When the device is deployed in bridge mode, the internal network can manage the device through the virtual IP address. The default virtual IP address is 1.1.1.3, access through https://1.1.1.3, and the device can be logged in. It is not recommended to modify the address. Please consult the technical support first if want to modify the address.

IAM Configuration Guide

The screenshot displays the Sangfor IAM configuration interface. The left sidebar shows a navigation menu with the following items: Status, Proxy, Objects, Users, Access Mgt, Bandwidth Mgt, Endpoint Device, Security, System (highlighted), Network, Firewall, General (highlighted), Licensing, Administrator, Date/Time, Update, Alarm Options, Global Exclusion, Backup/Restore, Custom Webpage, Report Center, Advanced (highlighted), and Diagnostics. The main content area is titled 'Advanced' and 'Redirection/Proxy'. It contains three sections: 'Redirection' with a checkbox for 'Enable destination based routing, and specify port to forward redirected data' and a sub-option 'DMZ Port Redirection'; 'Proxy' with a checkbox for 'Enable destination based routing, and specify port to forward proxy data' and a sub-option 'Do not restore address'; and 'Virtual IP' with two input fields: 'IPv4 Address' (containing '1.1.1.3') and 'IPv6 Address' (containing '1::3'). A 'Commit' button is located at the bottom right of the configuration area.



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