



SANGFOR



NGAF

OSPF Configuration Guide

Version 8.0.8



Change Log

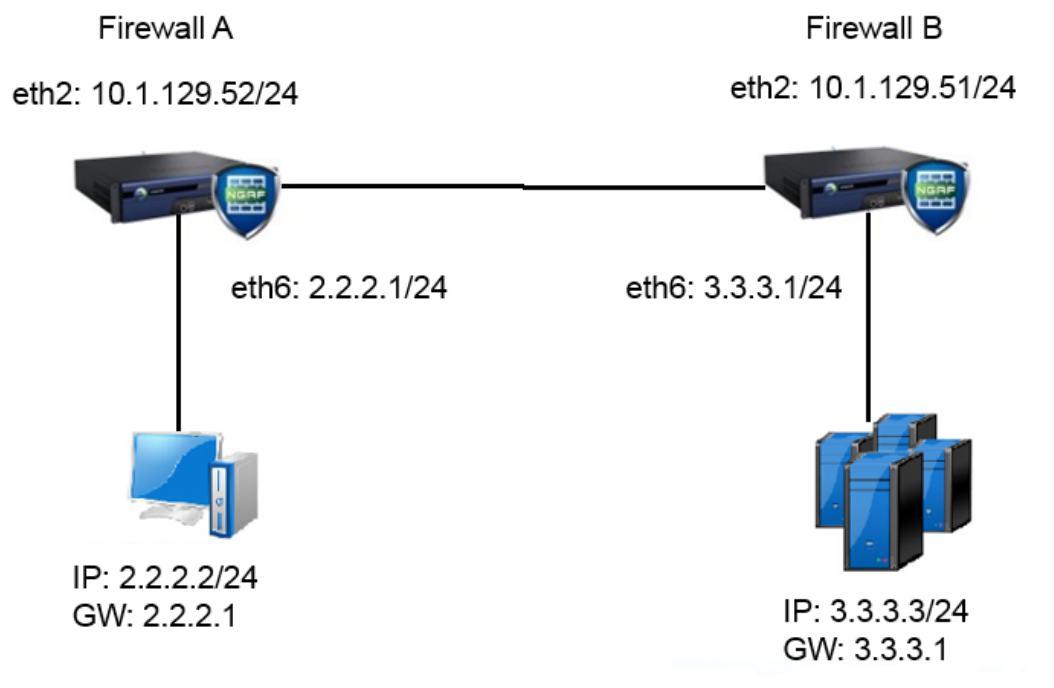
Date	Change Description
Nov 19,2019	OSPF Configuration Guide

CONTENT

Chapter 1 Application Scenario	1
Chapter 2 Configuration Method.....	1
Chapter 3 Precautions	4

Chapter 1 Application Scenario

Deployment of OSPF scenario, shown as the picture below:



Requirement:

1. The version of NGAF must be above 4.X, the recommended version will be the latest version.
2. NGAF is able to communicate with peer.

Chapter 2 Configuration Method

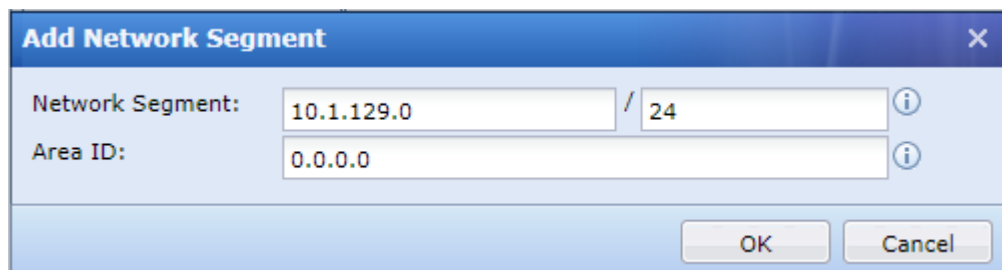
1. Basic network configuration: make sure the interface, default route and zone configuration is correct. Content security must be allowed. The details may refer to the following document below "SANGFOR_NGAF_V8.0.5_Route-Mode-Deployment-Guide"

Download link: http://community.sangfor.com/plugin.php?id=sangfor_databases:index&mod=viewdatabase&tid=975

Note: Except address translation, cannot be configured, other configuration may refer to the document.

2. After the basic network configuration has been done, go to **Network > Interface > OSPF** to configure OSPF, advertise WAN and LAN IP address, as shown:

Firewall A:

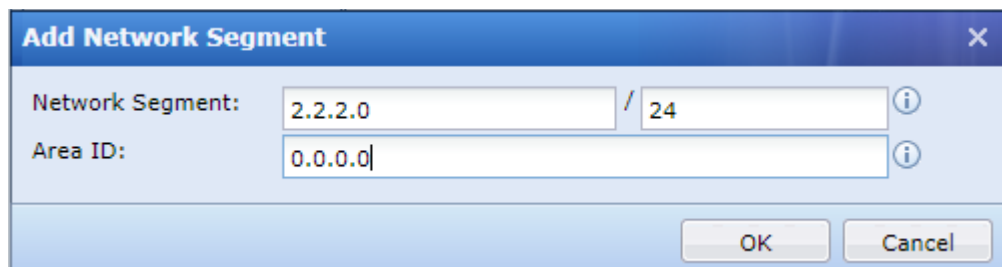


Add Network Segment

Network Segment: 10.1.129.0 / 24 ⓘ

Area ID: 0.0.0.0 ⓘ

OK Cancel



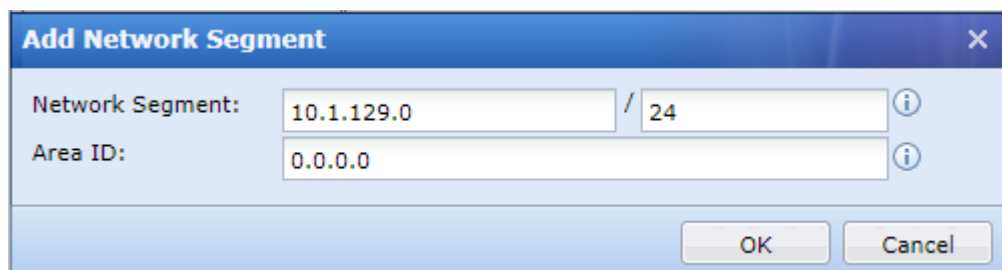
Add Network Segment

Network Segment: 2.2.2.0 / 24 ⓘ

Area ID: 0.0.0.0 ⓘ

OK Cancel

Firewall B:

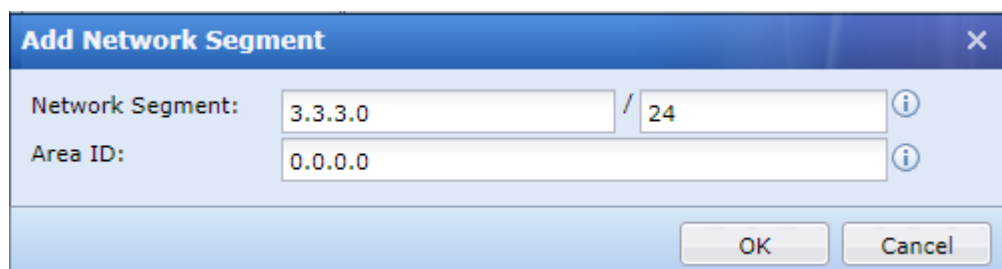


Add Network Segment

Network Segment: 10.1.129.0 / 24 ⓘ

Area ID: 0.0.0.0 ⓘ

OK Cancel



Add Network Segment

Network Segment: 3.3.3.0 / 24 ⓘ

Area ID: 0.0.0.0 ⓘ

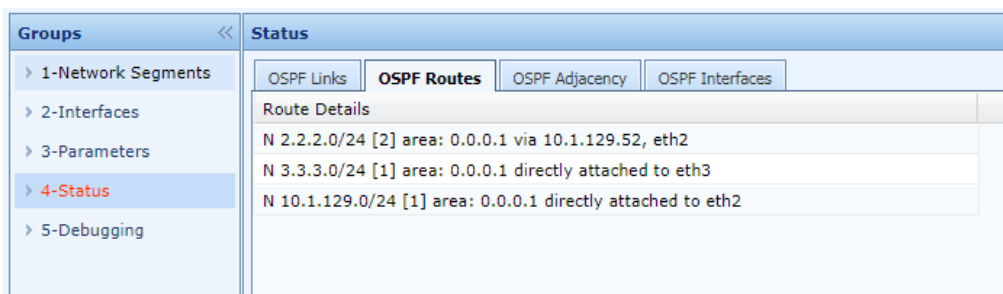
OK Cancel

- The configuration of OSPF will be advertise to the corresponded network segment, then check **Network > Routing > OSPF**, then choose 4-Status > OSPF Adjacency. If it is success status will show as Full/DR, besides in 4-Status > OSPF Routes is able to see the route details, as shown in the figure below:

OSPF Adjacency:

Static Route							
Policy-Based Routing							
Multicast Route							
OSPF							
RIP							
BGP							
All Routes							
R...							
<input checked="" type="checkbox"/> Enable OSPF + Add Virtual Connection(for OSPFv2 only) ⓘ Advanced							
Groups << <div> > 1-Network Segments > 2-Interfaces > 3-Parameters > 4-Status > 5-Debugging </div>							
Status <div> OSPF Links OSPF Routes OSPF Adjacency OSPF Interfaces </div>							
No.	Neighbor...	Pri	State	Dead Time	Address	Interface	
1	1.1.1.1	1	Full/DR	33.241s	10.1.129...	eth2:10...	

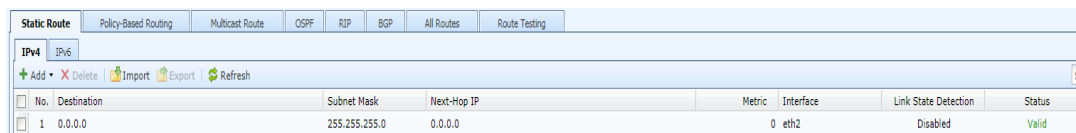
OSPF Routes:



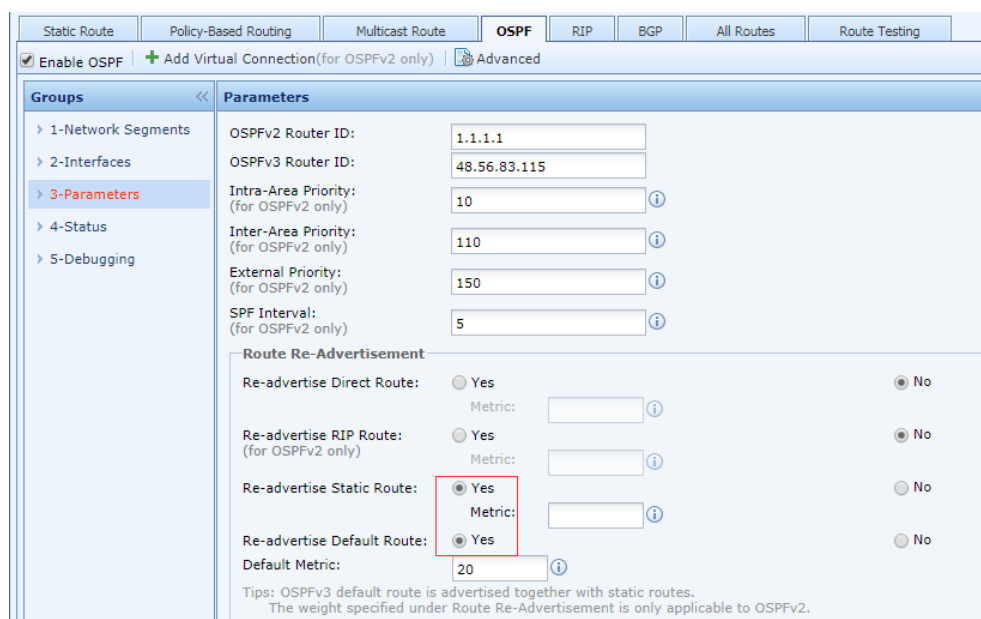
Note: The **OSPFv2 Router ID** should not be the same, in 3-Parameters then OSPFv2 Router ID to change to ID

- Need to configure a static route or default route, then advertise again the static route and default route in parameter configuration, as shown in below:

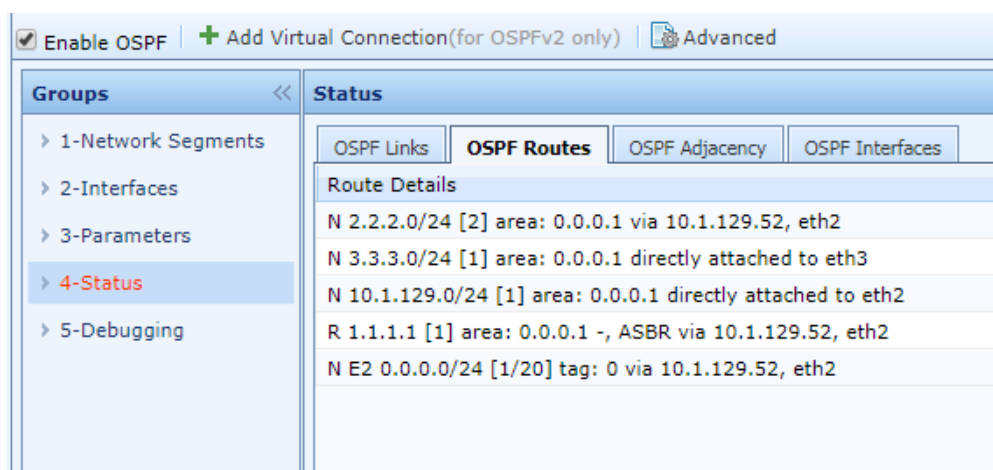
Default route:



Advertise default route:



After both of the highlighted function has been enabled, you can check the route details in OSPF Routes, as shown below:



Chapter 3 Precautions

1. The type of network from both end should be the same, or else OSPF neighbor is unable to build. The NGAF version above 6.8 is able to modify in dashboard.
2. NGAF version before version 7.1, after configured OSPF it will restart process, therefore it should be taken into consideration.
3. OSPF before version 7.1, around 3.00 a.m. the device will restart OSPF process. It will cause OSPF to advertise again. If customer does not allow restart OSPF process, may consider to use version 7.1 or above to do testing.
4. We can see that OSPF and static route will be the same, in routing table static route will be prioritize.



SANGFOR

Copyright © SANGFOR Technologies Inc. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of SANGFOR Technologies Inc.

SANGFOR is the trademark of SANGFOR Technologies Inc. All other trademarks and trade names mentioned in this document are the property of their respective holders.

Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied. The information in this document is subject to change without notice. To obtain the latest version, contact the international service center of SANGFOR Technologies Inc