



NSFOCUS Log Audit System

Installation Guide for Cloud Platforms



Version: V2.0R02IB00 (2026-06-16)

Confidentiality: Restricted

© 2026 NSFOCUS

■ Copyright © 2026 NSFOCUS Technologies, Inc. All rights reserved.

Unless otherwise stated, **NSFOCUS Technologies, Inc.** holds the copyright for the content of this document, including but not limited to the layout, figures, photos, methods, and procedures, which are protected under the intellectual property and copyright laws. No part of this publication may be reproduced or quoted, in any form or by any means, without prior written permission of **NSFOCUS Technologies, Inc.**

■ Statement

The purchased products, services, or features are stipulated in the contract made between NSFOCUS and the customer. Part of products, services, and features described in this document may not be within the purchased scope or the usage scope.

All information in this document is provided "AS-IS" without guarantees of any kind, express or implied. The information in this document is subject to change without notice. It may slightly differ from the actual product due to version upgrade or other reasons.

■ Disclaimer

Please read the disclaimer carefully before using the product. Once you use the product, you acknowledge and agree to all the contents of this disclaimer. NSFOCUS shall not assume any responsibility for any loss or damage in the following circumstances:

- Data loss and system availability reduction caused by the negligence or misconduct of the system O&M or management personnel, for example, they do not handle alerts that affect system stability and availability in a timely manner.
 - Data loss and system availability reduction caused by the fact that the traffic exceeds the planned hardware capacity.
 - Data loss and system availability reduction or unavailability caused by natural disasters (including but not limited to floods, fires, and earthquakes) or environmental factors (including but not limited to network disconnection and power outage).
-

Contents

Preface2

1 Deploying VM LAS on OpenStack3

 1.1 Preparations..... 3

 1.2 Configuration steps 3

2 Deploying VM LAS on Hyper-V8

 2.1 Preparations..... 8

 2.2 Configuration steps 8

Preface

This document describes the VM installation and deployment of NSFOCUS Log Audit System ("LAS" for short) for cloud platforms.

This document is provided for reference only. It may slightly differ from the actual product due to version upgrade or other reasons.

Change History

Version	Description
V2.0R02IB00	Initial release.

Technical Support

Hardware and Software Support

Email: support@nsfocusglobal.com

Cloud Mitigation Support

Email: cloud-support@nsfocusglobal.com

Phone:

- USA: +1-844-673-6287 or +1-844-NSFOCUS
- UK: +44 808 164 0673 or +44 808 164 0NSF
- Netherlands Toll: +31 85 208 2673 or +31 85 208 2NSF
- Australia: +61 2 8599 0673 or +61 2 8599 0NSF
- Brazil: +55 13 4042 1673 or +55 13 4042 1NSF
- Japan: +81 3-4510-8673 or +81 3-4510-8NSF
- Singapore: +65 3158 3757
- Middle East: +973 1619 7607
- Hong Kong, China: +852 5803 2673 or +852 5803 2NSF
- Macao, China: +853 6825 8594
- Chinese Mainland: +86 10 5387 5981

Documentation Feedback

For any query regarding the usage of the documentation, you can contact us:

Email: info-support@nsfocus.com

1 Deploying VM LAS on OpenStack

1.1 Preparations

Before deploying a LAS virtual machine on OpenStack, prepare the following files:

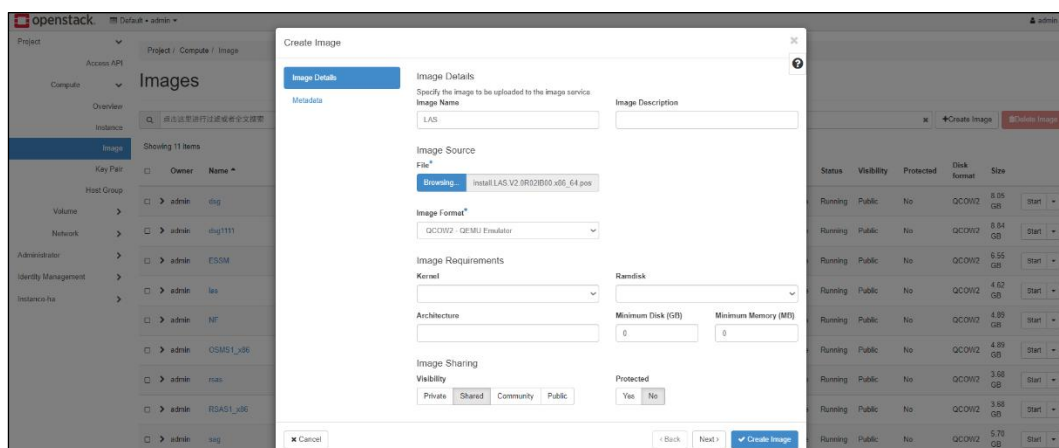
- Two-stage product image (file format: qcow2)
- Specifications for virtualization import:
 - Minimum CPU: 4 cores
 - Minimum memory: 16/32 GB
 - Minimum system disk: 30 GB
 - Minimum data disk: 500 GB

1.2 Configuration steps

The configuration steps for deploying a VM LAS on OpenStack are as follows:

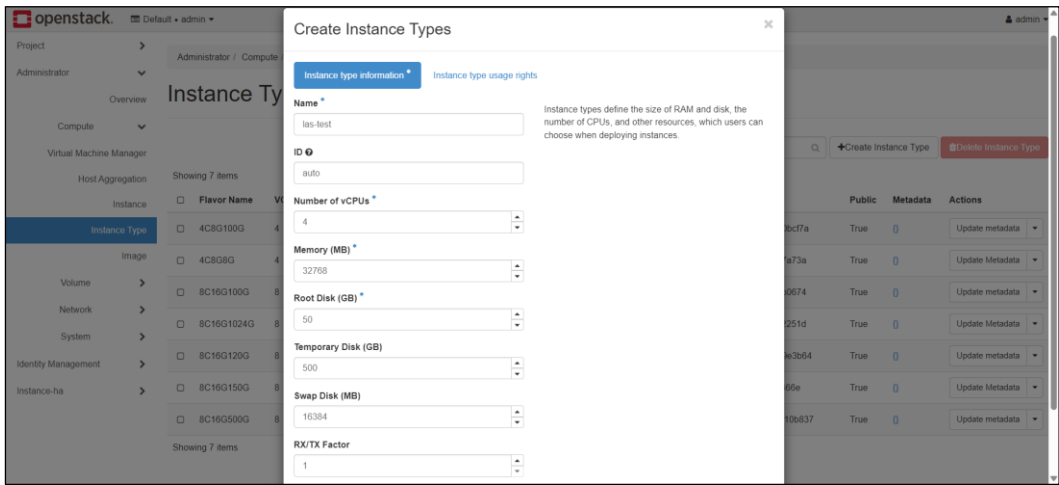
- Step 1** Navigate to **Project > Compute > Image**, click **Create Image** to upload the image, configure the required parameters, as shown in [Figure 1-1](#).

Figure 1-1 Uploading Image



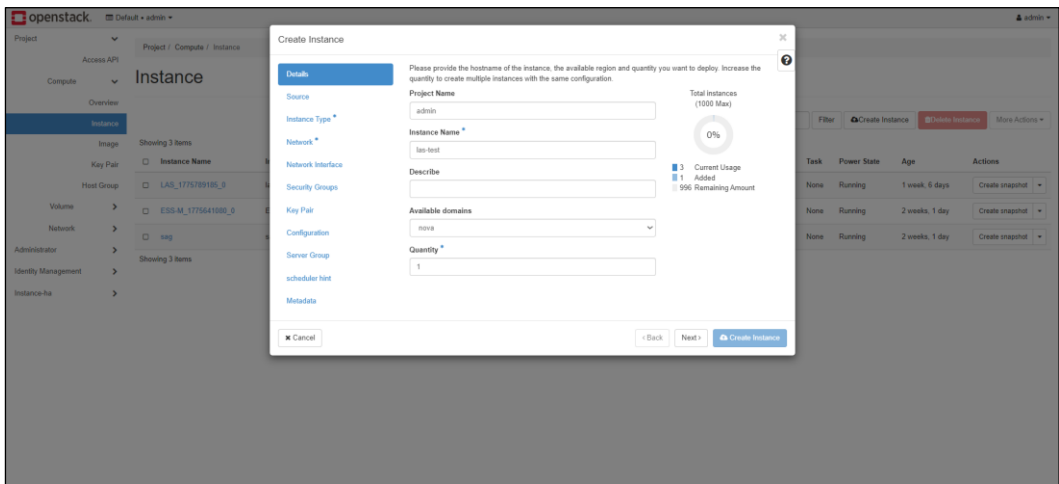
- Step 2** Navigate to **Administrator > Compute > Instance Type**, click **Create Instance Type**, as shown in [Figure 1-2](#).

Figure 1-2 Creating Instance



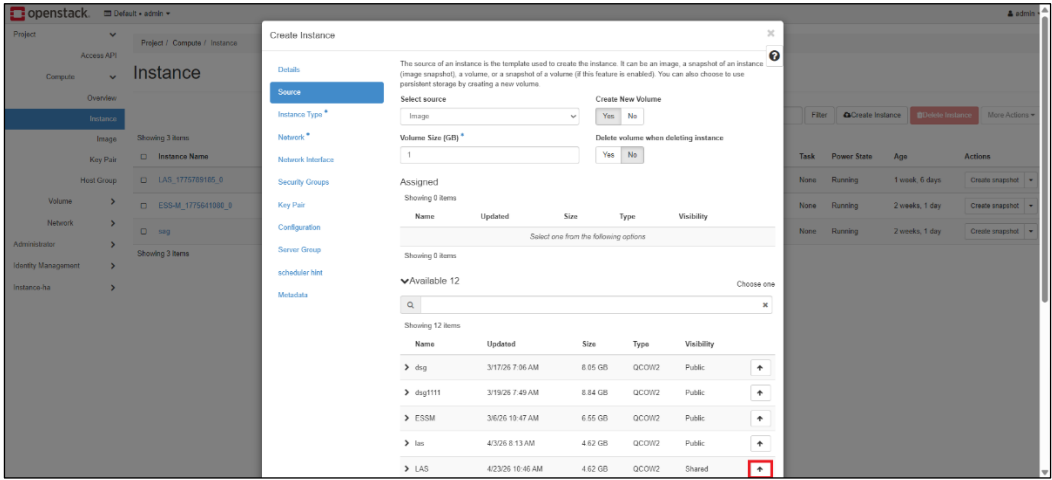
Step 3 Return to **Project > Compute > Instance**, click **Create Instance** to start the instance (virtual machine) as shown in Figure 1-3, and click **Next**.

Figure 1-3 Start Instance



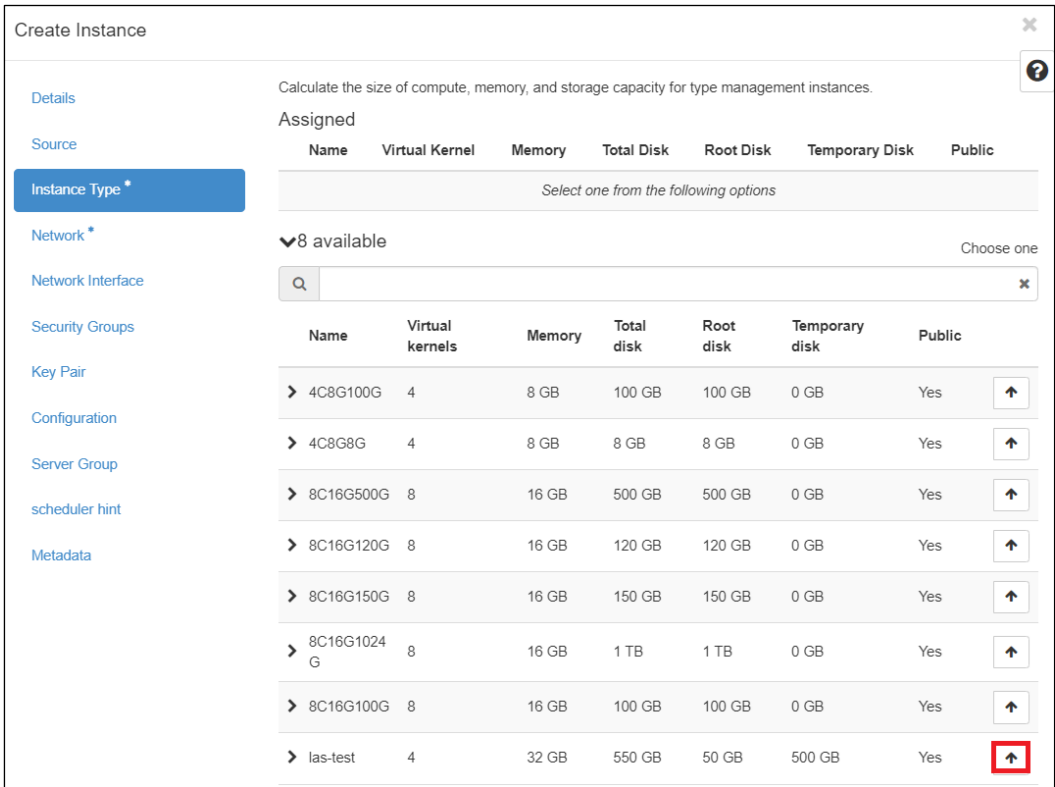
Step 4 Select the source as shown in Figure 1-4, and click **Next**.

Figure 1-4 Selecting Instance Source



Step 5 Select the instance type, as shown in Figure 1-5, and click **Next**.

Figure 1-5 Selecting Instance Type



Step 6 Configure the network, as shown in Figure 1-6, and click **Create Instance**.

Figure 1-6 Configuring Network Parameters

Create Instance

Details

Source

Instance Type *

Network *

Network Interface

Security Groups

Key Pair

Configuration

Server Group

scheduler hint

Metadata

In the cloud, the network provides communication channels for instances.

Assigned

Select network from the dropdown list

Network	Connected subnet	Shared	Admin status	Status
Select one from the following options				

Available 5

Select at least one network

Q

Network	Connected subnet	Shared	Admin status	Status
> System_VPC	Auto-assign IPv4 subnet 1 Auto-assign IPv4 subnet 3 Auto-assign IPv6 subnet 2 Auto-assign IPv6 subnet 3 Auto-assign IPv6 subnet 1 Auto-assign IPv4 subnet 2	No	Normal	Running ↑
> System_RouteN etwork	System_RouteIPv6 System_RouteSubnet	No	Normal	Running ↑
> System_RouteN etwork3	System_Routing System_RouteIPv6	No	Normal	Running ↑
> Inline Network	Default Management Network Inline Subnet_IPV4_1772794001.108686	Yes	Normal	Running ↑
> Default Manage ment Network	M4	Yes	Normal	Running ↑

Step 7 View the status and usage of the newly created instance, as shown in Figure 1-7.

Figure 1-7 Viewing Status

openstack

Default • admin

Project

Access API

Compute

Overview

Instance

Image

Key Pair

Host Group

Volume

Network

Administrator

Identity Management

Instance-ns

Project / Compute / Instance

Instance

Example ID =

Filter

Create Instance

Delete Instance

More Actions

Showing 4 items

Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Age	Actions
las-test	LAS	(No IP Address)	las-test	-	running	nova	None	Running	2 days, 17 hours	Create snapshot
LAS_1775789185_0	las	172.25.0.8, 10.66.252.182, 1110.1816.3eff1e05.277d	8C16G120G	-	Shutdown	nova	None	Turn off	2 weeks, 3 days	Start instance
ESS-M_1775641080_0	ESSM	172.25.0.6, 10.66.252.180, 1110.1816.3eff1e2c.a471	8C16G5000G	-	running	nova	None	Running	2 weeks, 4 days	Create snapshot
sag	sag	172.25.0.2, 10.66.252.177, 172.25.0.34, 172.25.0.66	4C8G8G	-	running	nova	None	Running	2 weeks, 4 days	Create snapshot

Showing 4 items

Step 8 After the instance runs successfully, use the IP address assigned to the instance to log in to the web-based manager of LAS.



The web-based manager of LAS uses port 443. You must enable HTTPS port 443 in the cloud security group rules; otherwise, the login page cannot be accessed.

----End

2 Deploying VM LAS on Hyper-V

2.1 Preparations

Before deploying a VM LAS on Hyper-V, prepare the following files:

- Two-stage product image (file format: qcow2)
- Specifications for virtualization import:
 - Minimum CPU: 4 cores
 - Minimum memory: 16/32 GB
 - Minimum system disk: 30 GB
 - Minimum data disk: 500 GB

2.2 Configuration steps

The configuration steps for deploying a VM LAS on Hyper-V are as follows:

Step 1 Log in to the KVM server.

Step 2 Upload the two-stage image (file format: qcow2) to the KVM server.

Step 3 Convert the two-stage image (file format: qcow2) to VHD format.

```
convert.sh:
#!/bin/bash
set -x
rawdisk=$1
MB=$((1024*1024))
size=$(qemu-img info -f raw --output json "$rawdisk" | \
gawk 'match($0, /"virtual-size": ([0-9]+)/, val) {print val[1]}')
rounded_size=$((($size+$MB-1)/$MB*$MB))
echo "Rounded Size = $rounded_size"
```

- a. Convert to the raw format: `qemu-img convert -f qcow2 -O raw las_f07_cloud.qcow2 las_f07_cloud.raw`
- b. Get the raw size: `bash convert.sh las_f07_cloud.raw`
- c. Update the raw size: `qemu-img resize las_f07_cloud.raw 8589934592` (this value is the raw size obtained from the previous step)
- d. Convert to VHD: `qemu-img convert -f raw -o subformat=fixed -O vpc las_f07_cloud.raw las_f07_cloud.vhd`

- Step 4** Log in to the Hyper-V server and upload the prepared VHD image to the server.
- Step 5** Press the **Win+R** keys, use the **servermanager** command to open Server Manager, click **All Servers > Hyper-V Manager**.
- Step 6** Create a virtual machine.
- Right-click **Hyper-V Manager**, click **Create Virtual Machine**, and enter the virtual machine name.
 - Select the generation of this virtual machine as Generation 1, allocate startup memory, configure network, and select the uploaded **.vhd** image file.
 - Click **Next** to complete the creation.
- Step 7** Open the created virtual machine window, click **File** at the top-left corner to enter the **Settings** page, configure a dynamic data disk for the virtual machine, and create a COM serial port.
- Step 8** Start the virtual machine and use the serial port created in the previous step.
- Step 9** Configure LAS IPv4 address on the serial interface.
- Step 10** Use the configured IPv4 to log in to the web-based manager of LAS.
- End