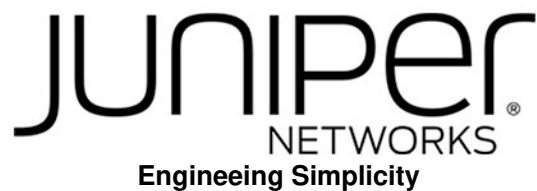




# JUNIPER NETWORKS JSA Juniper Secure Analytics User Guide

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Release Notes  
JSA 7.5.0 Update Package 5 qcow2  
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## Administrator Notes

This guide covers the aspects of installing, upgrading and operating a vJSA (virtual Juniper Secure Analytics) appliance on top of a Kernel Virtual Machine (KVM) or Open Stack environment. It is assumed the reader is familiar with KVM, and virtualization and Ubuntu Linux, or Open Stack environments. The examples in this guide are being executed as follows:

- Initial Install and storage expansion of vJSA image on Ubuntu 18.04 deployment of KVM.
- OpenStack deployment leveraging heat templates.

## Prerequisites for Installing JSA 7.5.0 Update Package 5 qcow2

We recommend the following system settings before you upgrade to JSA Release 7.5.0 Update Package 5 qcow2:

- Instantiate the JSA virtual machines on the same non-uniform memory access (NUMA) as the disk controller or RAID controller on the host system. This optimizes disk I/O operations and avoids crossing the QuickPath Interconnect (QPI).
- Set the NUMA policy as strict for kernel-based virtual machine (KVM) so that memory and CPU resources are all allocated from the same NUMA.
- For best I/O performance, metadata preallocation is recommended as a minimum. Full allocation of the disk is required for maximum performance and is recommended for all installations on the KVM.
- Increase the amount of storage allocated to a particular partition on the disk image.

**NOTE:** Juniper Networks does not provide any support for installing and configuring the KVM server. You must install the virtual appliance image and configure it as per the recommended specifications for the virtual appliance. Juniper Networks will provide support only after the Juniper Secure Analytics has booted successfully. The prerequisites to deploy a Juniper Secure Analytics on a KVM server are as follows:

- Knowledge about configuring and installing a KVM server.
- KVM server and supported packages must be installed on your Linux-based system. Contact your Linux vendor or documentation for information about installing KVM.
- An application or method to view the remote system virtual monitor, such as Virtual Machine Manager (VMM), Virtual Network Computing (VNC) Viewer, or any other application.
- Bridge Interface configured according to your environment and at least two free static IP addresses.

## Minimum Software Requirements for Installing JSA 7.5.0 Update Package 5 qcow2

The minimum software requirements for installing JSA 7.5.0 Update Package 5 qcow2 are as follows:

- 32-GB RAM
- 16 CPU cores
- 512 GB disk space

## Prerequisite Hardware Accessories for JSA 7.5.0 Update Package 5 qcow2

Before you install JSA products, ensure that you have access to the required hardware accessories and desktop software.

### Hardware Accessories

Ensure that you have access to the following hardware components:

- Monitor and keyboard, or a serial console
- Uninterrupted Power Supply (UPS) for all systems that store data, such as JSA console, Event Processor components, or JSA flow processor components
- Null modem cable if you want to connect the system to a serial console

**NOTE:** JSA products support hardware-based Redundant Array of Independent Disks (RAID) implementations, but do not support software-based RAID installations or hardware assisted RAID installations.

## Installing JSA on a Virtual Machine

Create a virtual machine. For more information, see [No Link Title](#).

**NOTE:** The software installation menu will not be visible in the installation wizard by default. If you want to do JSA software installation, refer to JSA Software only Installations.

After you create your virtual machine, you must install the JSA software on the virtual machine.

1. Log in to the virtual machine by typing root for the user name. The user name is case-sensitive.
2. Accept the End User License Agreement.

**TIP:** Press the Spacebar key to advance through the document.

3. Select the appliance type:
  - Appliance Install (purchased as an appliance)
  - High Availability Appliance
  - App Host Appliance
  - Log Analytics Appliance

**NOTE:** You can select the appliance type based on the intended appliance functionality.

4. If you selected an appliance for high-availability (HA), select whether the appliance is a console.
5. If you selected an appliance for Log Analytics Appliance, select LA (Log Analytics “All-In-One” or Console 8099).
6. For the type of setup, select Normal Setup (default) or HA Recovery Setup, and select Next.
7. The Date/Time Setup page appears. Enter the current date in the Current Date (YYYY/MM/DD) field in the format displayed. A date is also displayed for your reference. Enter the time in 24-hour format in the 24h Clock

Time (HH:MM: SS) field. Alternatively, you can enter the name or the IP address of the time server to which the time can be synced in the Time Server field. After entering the date and time details, select Next.

8. The Select Continent/Area page appears. Select the Time Zone Continent or Area as required and select Next. The default value is America.
9. The Time Zone Selection page appears. Select the Time Zone City or Region as required and select Next. The default value is New York.
10. If you selected HA Recovery Setup, enter the cluster virtual IP address.
11. Select the Internet Protocol version: · Select ipv4 or ipv6.
12. If you selected ipv6, select manual or auto for the Configuration type.
13. Select the bonded interface setup.
14. Select the management interface.

**NOTE:** If the interface has a link (cable connected), a plus sign (+) is displayed before the description.

15. In the Network Information Setup window, configure the following network settings and select Next.

- Hostname: Enter a fully qualified domain name as the system hostname
- IP Address: Enter the IP address of the system
- Network Mask: Enter the network mask for the system
- Gateway: Enter the default gateway of the system
- Primary DNS: Enter the primary DNS server address
- Secondary DNS: (Optional) Type the secondary DNS server address
- Public IP: (Optional) Enter the Public IP address of the server

**NOTE:** If you are configuring this host as a primary host for a high availability (HA) cluster, and you selected Yes for auto-configure, you must record the automatically-generated IP address. The generated IP address is entered during HA configuration. For more information, see the Juniper Secure Analytics High Availability Guide.

16. If you are installing a Console, enter an admin password that meets the following criteria:

- Contains at least 8 characters
- Contains at least one uppercase character
- Contains at least one lowercase character
- Contains at least one digit
- Contains at least one special character: @, #, ^, or \*.

17. Enter root password that meets the following criteria:

- Contains at least 5 characters
- Contains no spaces
- Can include the following special characters: @, #, ^, and \*.

18. Click Next.

19. Apply your license key.

- a. Log in to JSA. The default user name is admin. The password is the password of the admin user account that you set during installation.
- b. Click Login To JSA.
- c. Click the Admin tab.
- d. In the navigation pane, click System Configuration.
- e. Click the System and License Management icon.
- f. From the Display list box, select Licenses, and upload your license key.
- g. Select the unallocated license and click Allocate System to License.

- h. From the list of systems, select a system, and click Allocate System to License.
- i. Click Deploy License Changes.

## Installing JSA 7.5.0 Update Package 5 qcow2 on the KVM server using VMM

Use the VMM virtual machine client to install the JSA 7.5.0 Update Package 5 qcow2 on a KVM server.  
To install the JSA 7.5.0 Update Package 5 qcow2 on a KVM server by using VMM:

1. Download the JSA 7.5.0 Update Package 5 qcow2 image from <https://support.juniper.net/support/downloads/> to your local system.  
**NOTE:** Do not change the name of the JSA 7.5.0 Update Package 5 qcow2 image file that you download from the Juniper Networks support site. If you change the name of the image file, the creation of the JSA 7.5.0 Update Package 5 qcow2 can fail.
2. Launch the VMM client.
3. Select File > New Virtual Machine on the menu bar of VMM to install a new virtual machine on a KVM server.  
The New VM dialog box appears and displays. Step 1 of 4 of the New VM installation.
4. Under Choose how you would like to install the operating system, click Import existing disk image.
5. Click Forward to go to the next step. Step 2 of 4 is displayed.
6. Under Provide the existing storage path, click Browse.
7. Under Choose storage volume, click Browse Local at the bottom of the dialog box to locate and select the JSA 7.5.0 Update Package 5 qcow2 image file (.qcow2) saved on your system.
8. Under Choose an operating system type and version, select Linux for OS type and Red Hat Enterprise Linux version number for Version.  
**NOTE:** We recommend to use the same Linux version as JSA 7.5.0 Update Package 5 qcow2 is using.
9. Click Forward to go to the next step.  
Step 3 of 4 is displayed.
10. Under Choose Memory and CPU settings, ensure that 4 is set for CPUs and select or enter the following value for Memory (RAM):
  - 32768 MBFor the JSA 7.5.0 Update Package 5 qcow2 to be deployed as a Junos Space node or as an FMPM node
11. Click Forward to go to the next step.  
Step 4 is displayed.
12. Under Network selection, select the options based on how you want to configure network communication on the JSA 7.5.0 Update Package 5 qcow2 setup.
13. Under Ready to begin the installation, in the Name field, enter a name for the JSA 7.5.0 Update Package 5 qcow2.

## Clearing the Cache

After you complete the installation, you must clear your Java cache and your web browser cache before you log in to the JSA appliance.

### Before you begin

Ensure that you have only one instance of your browser open. If you have multiple versions of your browser open, the cache might fail to clear.

Ensure that the Java Runtime Environment is installed on the desktop system that you use to view the user interface. You can download Java version 1.7 from the Java website: <http://java.com/>.

### About this task

If you use the Microsoft Windows 7 operating system, the Java icon is typically located under the Programs pane. To clear the cache:

1. Clear your Java cache:
  - a. On your desktop, select Start > Control Panel.
  - b. Double-click the Java icon.
  - c. In the Temporary Internet Files pane, click View.
  - d. On the Java Cache Viewer window, select all Deployment Editor entries.
  - e. Click the Delete icon.
  - f. Click Close. g. Click OK.
2. Open your web browser.
3. Clear the cache of your web browser.

If you use the Mozilla Firefox web browser, you must clear the cache in the Microsoft Internet Explorer and Mozilla Firefox web browsers.
4. Log in to JSA.

### Known Issues and Limitations

- If the Checking that tomcat is running and ready (attempt 0/30) phase goes past (attempt 10/30), you should use another SSH session to log in to the system's IP address during installation, and remove the imqbroker lock file. Restart the imqbroker service as follows:  
`systemctl restart imqbroker`  
**NOTE:** If the installation times out, reboot the system and perform the setup for a second time.
- The administrator password is not set appropriately by the setup scripts.  
After installing the console, change the administrator password through the CLI by using the following steps:

1. Connect to your console using SSH as the root user.
  2. Set the password by running the following command: `/opt/qradar/support/changePasswd.sh -a`
2. Enter the new password when prompted.
3. Reenter the new password when prompted.
4. Restart the UI service with the following command: `service tomcat restart`
5. Log in to the UI with the administrator account and the new password.
6. Perform deploy changes. The administrator account password is now changed.

### Resolved Issues

#### None.

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## Documents / Resources

 <p>Release Notes</p>	<p><a href="#">JUNIPER NETWORKS JSA Juniper Secure Analytics</a> [pdf] User Guide JSA Juniper Secure Analytics, JSA, Juniper Secure Analytics, Secure Analytics, Analytics</p>
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## References

-  [java.com/](https://java.com/)
-  [Support](#)
-  [Downloads](#)
-  [JSA Software only Installations | JSA 7.5.0 | Juniper Networks](#)
- [User Manual](#)