
Use OS Security Packages

 For supported software information, click [here](#).

Versa Networks periodically provides operating system security packages (OS SPacks), which provide updates to the Analytics, Director, and Versa Operating System™ (VOS™) system software to protect the devices against newly identified security vulnerabilities. It is recommended that you install OS SPacks on all deployed Versa Networks devices when the OS SPacks become available. In addition, it is recommended that you upgrade to the latest VOS software releases when they become available, which is typically every 60 to 90 days.

You can upgrade the OS SPacks on one or more VOS devices from a Director node.

This article discusses how to install an OS SPack on Analytics, Director, and VOS devices. Note that Versa Director and VOS devices use different OS SPack files.

Use OS SPacks with Director Nodes

For Releases 22.1.1 and later.

To use OS SPacks, you edit the parameters for downloading the OS SPack, you download the OS SPack to the Director node, and then you install the OS security package.

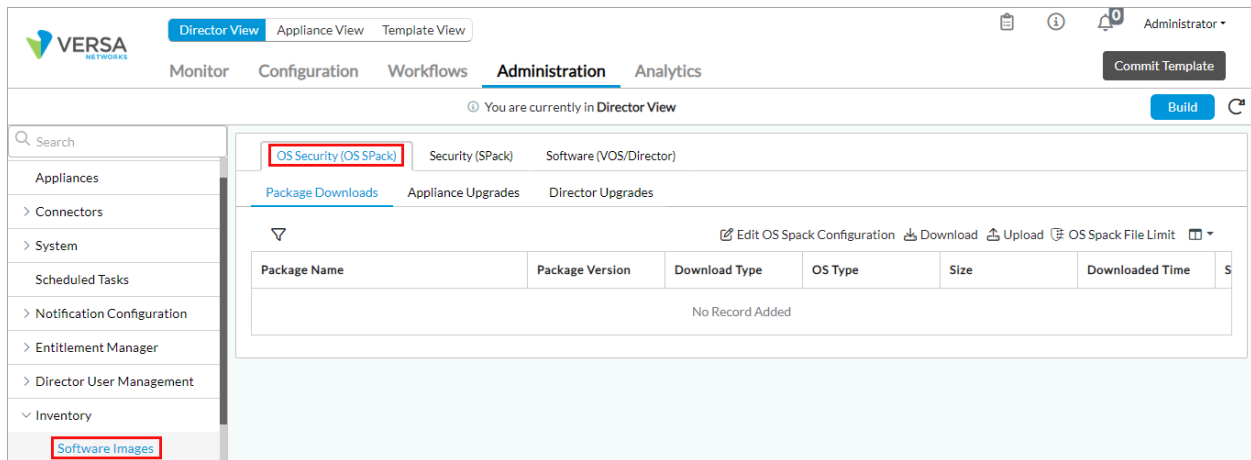
Optionally, you can set a limit for the number of downloaded OS SPack files that the Director node retains. The default limit is five files.

Edit the OS SPack Download Parameters

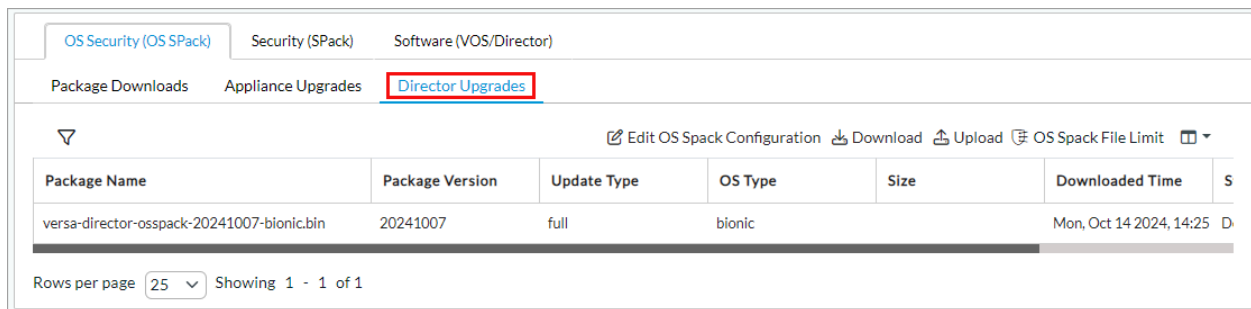
The OS SPack download parameters define the URL from which to download OS SPacks for a Director node.

To edit the OS SPack configuration for a Director node:

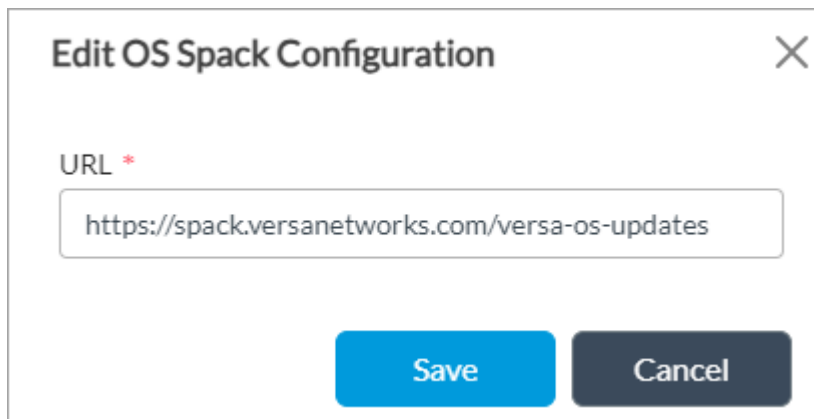
1. In Director view, select the Administration tab in the top menu bar.
2. Select Inventory > Software Images in the left menu bar. The OS Security (OS SPack) tab displays by default.



3. In the OS Security (OS SPack) tab, select the Director Upgrades tab.



4. Click Edit OS SPack Configuration. The Edit OS SPack Configuration popup window displays.



5. Enter the URL from which to download OS SPacks for the Director.
6. Click Save.

Download the OS SPack on a Director Node

For Releases 22.1.1 and later.

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/Use_OS_Security_Packages

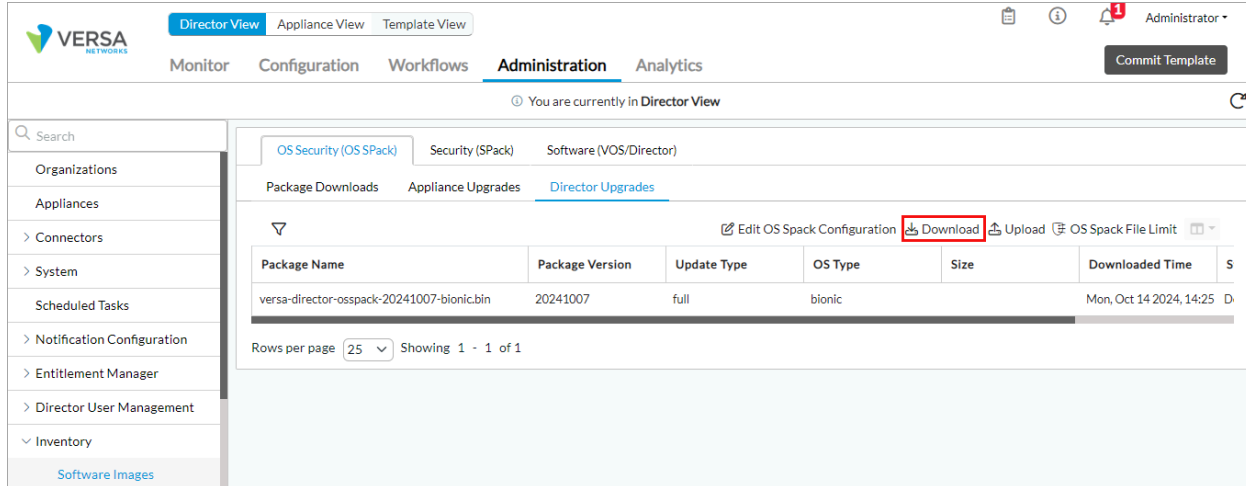
Updated: Thu, 24 Oct 2024 10:44:14 GMT


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The OS SPack is a self-installable binary file. You can download the file from the Director GUI or you can download it manually, directly to the Director node.

To download an OS SPack to a Director node and then install it:

1. In Director view, select the Administration tab in the top menu bar.
2. Select Inventory > Software Images in the left menu bar. The OS Security (OS SPack) tab display by default.
3. In the OS Security (OS SPack) tab, select the Director Upgrades tab. The table in the main pane lists the OS SPacks that have been downloaded.



- a. Click the  Download icon. In the Download OS Security Package popup window, enter the following information.

Download OS Security Package

Download Type

Full

Package *

---Please Select---

Download

Cancel

Field	Description
Download Type	Select the type of download: <ul style="list-style-type: none"> Full—Select to download a new OS SPack to Director. Select this option for a new Director node. Incremental—Select to upgrade the OS SPack on a Director node.
Package (Required)	Select the name of the OS SPack.

b. Click Download. The downloaded file is saved in the /var/versa/packages/osspace/versa-director/ directory.

4. To download the OS SPack binary file manually:

- Download the binary file from the folder at <https://versanetworks.box.com/v/osspace> or from the alternate download server, <https://upload.versa-networks.com/index.php/s/nEkF9xOO3e7BA9Z>. An example of an OS SPack filename is versa-director-osspace-20200214.bin.
- Copy the OS SPack file to the Director node. You can copy the file using SCP. For AWS, you must use SSH keys to perform SCP.

Manually Upload an OS SPack on a Director Node

For Releases 22.1.4 and later.

If the Director node does not have internet access, you can download an OS SPack to a local computer and then manually upload it to the Director node. The OS SPack filename must start with the string versa-director-osspace and the filename extension must be .bin.

To upload an OS SPack manually from a local computer to the Director node:

- In Director view, select the Administration tab in the top menu bar.
- Select Inventory > Software Images in the left menu bar.
- Select the OS Security (OS SPack) tab, and then select the Director Upgrades tab.

Package Name	Package Version	Update Type	OS Type	Size	Downloaded Time	S
versa-director-osspace-20241007-bionic.bin	20241007	full	bionic		Mon, Oct 14 2024, 14:25	D

- Click Upload. The Upload OS Security (OS SPack) Package popup window displays. Enter Information for the following fields.

Upload OS Security (OS SPack) Package


Upload Type

Full

OS Type

Trusty

Upload OS Security Package File*



Browse File

Upload

Cancel

Field	Description
Upload Type	<p>Select the type of OS SPack to upload. Ensure that you select the same type as the OS SPack file that you want to upload.</p> <ul style="list-style-type: none"> Full—Download the full database repository. A full download overwrites the OS SPack that is installed on the Director node. Incremental—Upload only an update to the currently installed OS SPack. To determine whether an incremental update is available, check the release notes for the OS SPack version.
OS Type	<p>Select the OS type running on the Director node:</p> <ul style="list-style-type: none"> Bionic (Ubuntu 18.04) Trusty (Ubuntu 14.04)
Upload OS Security Package File	<p>Click Browse File, and then select the OS SPack file to upload from the local computer. Note that filename must start with the string versa-director-osspack and the filename extension must be .bin.</p>

5. Click Upload.

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/Use_OS_Security_Packages

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To display information about the manual OS SPack upload, click the Tasks icon in the horizontal menu bar.

Install the OS SPack

Install the OS security pack update by executing the following Linux commands from a bash shell:

```
~$ chmod a+x filename.bin
~$ sudo ./filename.bin
```

Note: When you install the OS SPack, no running services on the Director node are affected, and you do not need to restart any services.

To display a list of OS SPack versions that are present on a Director node, SSH into the node and issue the following shell command:

```
cat /opt/versa/etc/osspack/manifest.json | grep "version":'
```

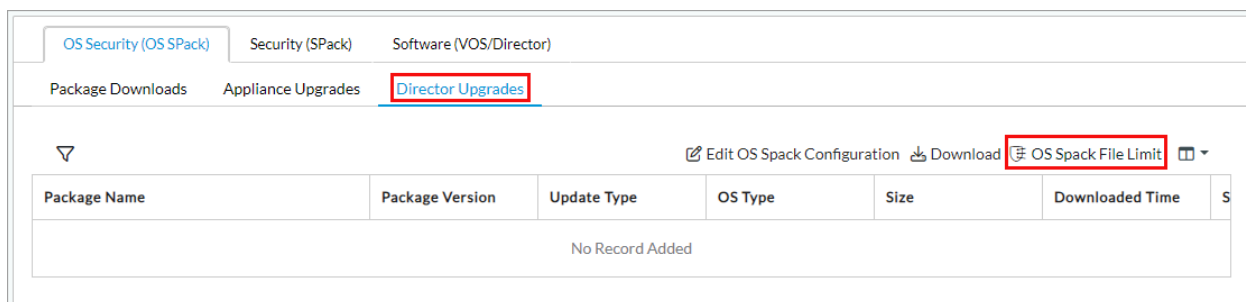
Note that in this command, the text string **version** is preceded by a single quotation mark followed by a double quotation mark.

Set the OS SPack File Limit

This procedure is optional. When you schedule an OS SPack download to a Director node, the Director node retains the last five OS SPacks by default. When this limit is reached, it deletes the oldest SPack. You set separate file limits for VOS OS SPack files and Director OS SPack files.

To change the number of OS SPacks that the Director node retains for a Director node:

1. In Director view, select the Administrator tab in the top menu bar.
2. Select Inventory > Software Images in the left menu bar.
3. In the OS Security (OS SPack) tab, select the Director Upgrades tab.



4. Click the OS SPack File Limit icon.
5. In the Set SPack File Limit popup window, enter the maximum number of SPacks to retain on the Director node. The default is 5. You configure the file limit as per the system memory availability.

Set OS Spack File Limit

OS Spack File Limit *

OK

Cancel

6. Click OK.

Use OS SPacks with VOS Devices

For Releases 22.1.1 and later.

To use OS SPacks, you edit the parameters for downloading the OS SPack, you download the OS SPack to the Director node, and then you install the OS security package on a VOS device.

Edit the OS SPack Download Parameters

The OS SPack download parameters define the URL from which to download OS SPacks, whether to perform full or incremental updates for a device, and the time for download timeout.

To edit the OS SPack configuration for a device:

1. In Director view, select the Administration tab in the top menu bar.

2. Select Inventory > Software Images in the left menu bar. The OS Security (OS SPack) tab display by default.

3. In the OS Security (OS SPack) tab, select the Package Downloads tab.

OS Security (OS SPack)Security (SPack)Software (VOS/Director)

Package DownloadsAppliance UpgradesDirector Upgrades

⌵

Edit OS Spack ConfigurationDownloadUploadOS Spack File Limit

Package Name	Package Version	Download Type	OS Type	Size	Downloaded Time	S
versa-flexvnf-osspack-20241007-bionic.bin	20241007	full	bionic		Mon, Oct 14 2024, 14:25	D

Rows per page25Showing 1 - 1 of 1

4. Click Edit OS SPack Configuration. In the Edit OS SPack Configuration popup window, enter the following information.

Edit OS Spack Configuration

URL *

https://spack.versanetworks.com/versa-os-updates

Download Timeout

300

Download Type

Full

Save

Cancel

Field	Description
URL (Required)	Enter the URL from which to download OS SPacks.
Download Timeout	<p>Enter the time, in minutes, for the download to timeout.</p> <p><i>Range:</i> 300 through 3600 minutes (5 through 60 hours)</p> <p><i>Default:</i> 300 minutes</p>
Download Type	<p>Select the OS SPack download type:</p> <ul style="list-style-type: none"> Full—Download the full database repository. A full download overwrites the OS SPack that is installed on the device. Incremental—Download only an update to the currently installed OS SPack. To determine whether an incremental update is available, check the release notes for the OS SPack version.

5. Click Save.

Download the OS SPack for a VOS Device

For Releases 22.1.1 and later.

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/Use_OS_Security_Packages

Updated: Thu, 24 Oct 2024 10:44:14 GMT

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You download the OS SPack for a VOS device to a Director node and then install or upgrade OS SPack on the VOS device.


To download the OS SPack for a VOS device:

1. Before you download and install the OS SPack, configure DNS settings so that the Director node can locate the server from which to download the OS SPack. For more information, see [Configure DNS Settings](#).
2. In Director view, select the Administration tab in the top menu bar.
3. Select Inventory > Software Images in the left menu bar.
4. Select the OS Security (OS SPack) tab in the horizontal menu bar, and then select the Package Downloads tab. The table in the main pane lists the OS SPacks that have already been downloaded.

The screenshot shows the Versa Director Administration interface. The top navigation bar includes 'Director View', 'Appliance View', and 'Template View'. The main navigation bar has 'Monitor', 'Configuration', 'Workflows', 'Administration', and 'Analytics'. The 'Administration' tab is selected. On the left, the 'Inventory' menu is expanded, and 'Software Images' is highlighted. The main content area shows the 'OS Security (OS SPack)' section with sub-tabs for 'Security (SPack)' and 'Software (VOS/Director)'. The 'Package Downloads' sub-tab is selected. A table lists the downloaded packages:

Package Name	Package Version	Download Type	OS Type	Size	Downloaded Time	S
versa-flexvnf-oss-pack-20241007-bionic.bin	20241007	full	bionic		Mon, Oct 14 2024, 14:25	D

Below the table, it shows 'Rows per page: 25' and 'Showing 1 - 1 of 1'. A 'Download' icon is highlighted in the top right of the table area.

5. Click the  Download icon to download the OS Security package. In the Download OS Security Package popup window, enter information for the following.

Download OS Security Package

Download Type

Full

OS Type

Bionic

Package *

---Please Select---

Download

Cancel

Field	Description
Download Type	Select the type of download: <ul style="list-style-type: none"> Full—Download the complete OS SPack to the Director node. Select this option if you want to install the OS SPack on the Director node. Incremental—Select to upgrade the OS SPack on a Director node with only the latest OS SPack.
OS Type	Select the OS type running on the Director node: <ul style="list-style-type: none"> Bionic (Ubuntu 18.04) Trusty (Ubuntu 14.04)
Package (Required)	Select the name of the OS SPack.

6. Click Download. The OS SPack is downloaded, and it is then listed in the table in the main pane.

Manually Upload an OS SPack for a VOS Device

For Releases 22.1.4 and later.

If the VOS device does not have internet access, you can download an OS SPack to a local computer and then manually upload it to the VOS device. The OS SPack filename must start with the string versa-flexvnf-osspace and the

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/Use_OS_Security_Packages

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filename extension must be .bin.

To upload an OS SPack manually from a local computer to a VOS device:

- 1. In Director view, select the Administration tab in the top menu bar.
- 2. Select Inventory > Software Images in the left menu bar.
- 3. Select the OS Security (OS SPack) tab, and then select the Package Downloads tab.

OS Security (OS SPack)Security (SPack)Software (VOS/Director)

Package DownloadsAppliance UpgradesDirector Upgrades

▼

Edit OS Spack ConfigurationDownloadUploadOS Spack File Limit

Package Name	Package Version	Download Type	OS Type	Size	Downloaded Time	S
versa-flexvnf-osspace-20241007-bionic.bin	20241007	full	bionic		Mon, Oct 14 2024, 14:25 D	

Rows per page25Showing 1 - 1 of 1

- 4. Click Upload. The Upload OS Security (OS SPack) Package popup window displays. Enter information for the following fields.

Upload OS Security (OS SPack) Package

Upload Type

Full

OS Type

Trusty

Upload OS Security Package File

Browse File

Upload

Cancel

Field	Description
Upload Type	<p>Select the type of OS SPack to upload. Ensure that you select the same type as the OS SPack file that you want to upload.</p> <ul style="list-style-type: none"> ◦ Full—Download the full database repository. A full download overwrites the OS SPack that is installed on the VOS device. ◦ Incremental—Upload only an update to the currently installed OS SPack. To determine whether an incremental update is available, check the release notes for the OS SPack version.
OS Type	<p>Select the OS type running on the Director node:</p> <ul style="list-style-type: none"> ◦ Bionic (Ubuntu 18.04) ◦ Trusty (Ubuntu 14.04)
Upload OS Security Package File	<p>Click Browse File, and then select the OS SPack file to upload from the local computer. Note that filename must start with the string versa-flexvnf-osspace and the filename extension must be .bin.</p>

Install the OS SPack

To install the OS SPack on a VOS device:

1. In the OS Security (OS SPack) tab, select the Appliance Upgrades tab.

OS Security (OS SPack)
Security (SPack)
Software (VOS/Director)

Package Downloads
Appliance Upgrades
Director Upgrades

	Appliance Name	Mgmt. Address	Tags	Appliance Type	OS Type	Owner Org	Package Version
<input checked="" type="checkbox"/>	SDWAN-Branch1	10.0.0.14		branch	Bionic	provider-org	20221107
<input type="checkbox"/>	SDWAN-Branch2	10.0.0.12		branch	Bionic	provider-org	unknown
<input type="checkbox"/>	SDWAN-Branch3	10.0.0.10		branch	Bionic	Tenant1	unknown
<input type="checkbox"/>	SDWAN-Branch4	10.0.0.16		branch	Bionic	provider-org	unknown
<input type="checkbox"/>	SDWAN-Branch5	10.0.0.8		branch	Bionic	provider-org	unknown

2. Select the VOS device or devices on which to install the OS SPack, or select the box next to the Appliance Name column to select all devices.
3. Click Upgrade Appliances. The Upgrade Appliances OS Security Package popup window displays. Enter the following information.

Upgrade Appliances OS Security Package

The OS type of the OS Security Package should match the OS type of the appliances selected.

Download Type *

---Please Select---

OS Type *

---Please Select---

OS Security Package Version *

---Please Select---

☒ Schedule Upgrade

Upgrade start day and time *

mm/dd/yyyy --:--:--

Selected appliances (1)

	Search appliance	Search package version	Search OS Type
<input type="checkbox"/>	Live-Setup-Branch3	unknown	Trusty

Upgrade

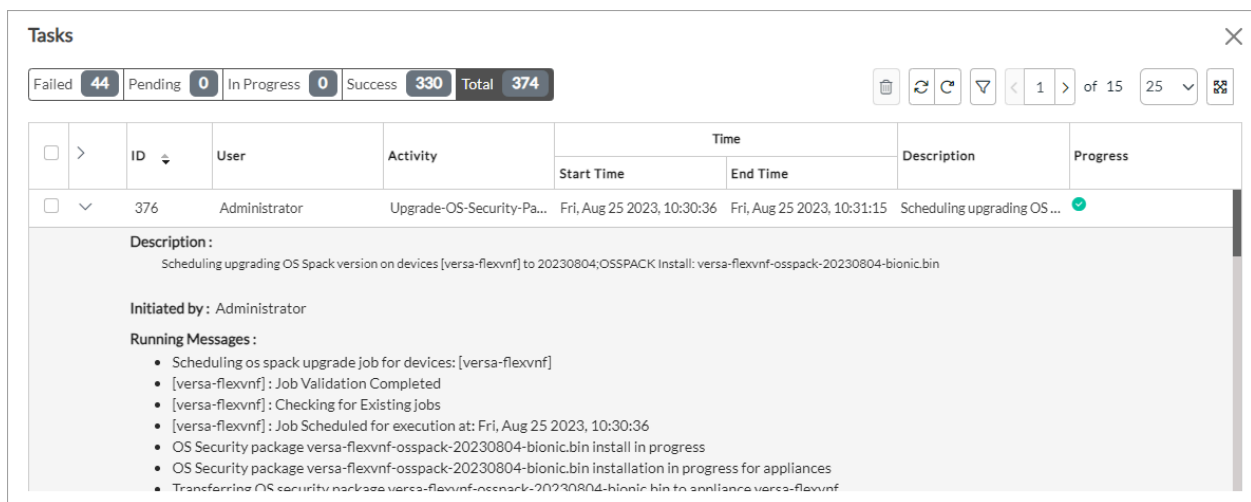
Cancel

Field	Description
Download Type (Required)	Select the type of downloaded package: <ul style="list-style-type: none"> ◦ Full—Select a new OS SPack. Select this option if an OS SPack is not already present. ◦ Incremental—Select to upgrade the device.
OS Type	Select the OS type running on the VOS node: <ul style="list-style-type: none"> ◦ Bionic (Ubuntu 18.04) ◦ Trusty (Ubuntu 14.04)
OS Security Package Version (Required)	Select the OS SPack from the list of downloaded SPacks.
Schedule Upgrade	Click to schedule a date and time for the upgrade to occur. Enter the date in the <code>dd/mm/yyyy</code> format and enter the time in the format <code>hh:mm:ss</code> (hours:minutes:seconds, using 24-hour format).
Selected Appliances	Displays the device or devices you selected for upgrade.

- Click Upgrade. If you have not set a schedule for upgrade, the OS SPack is upgraded immediately.
- To check the status of the download and installation of the OS SPack, click the Tasks icon in the horizontal menu bar.



The Tasks popup window displays details of the OS SPack download tasks, including failed, pending, in progress, successful, and total tasks.



To display a list of OS SPack versions that are present on a VOS device, issue the following CLI command:

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/Use_OS_Security_Packages

Updated: Thu, 24 Oct 2024 10:44:14 GMT

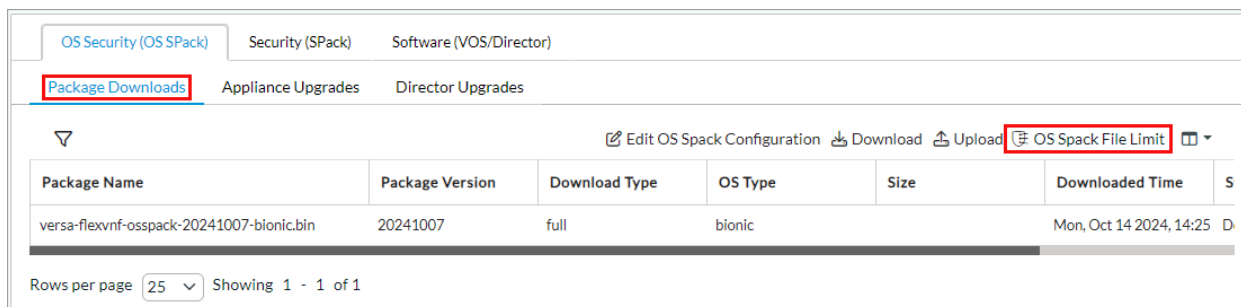
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Set the OS SPack File Limit

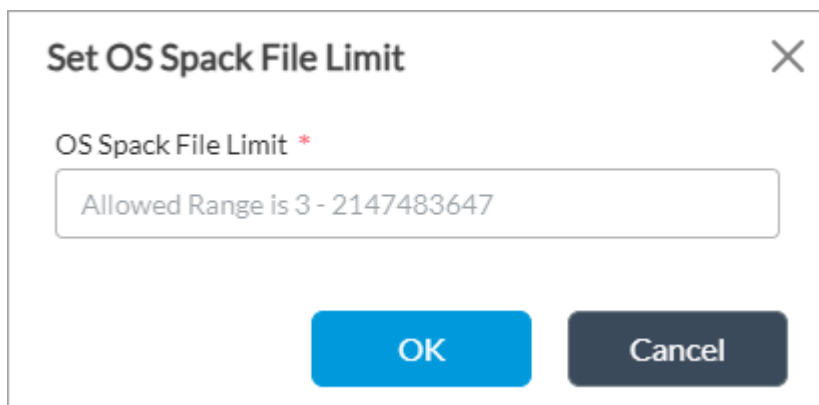
This procedure is optional. When you schedule an OS SPack download to a Director node, the Director node retains the last five OS SPacks by default. When this limit is reached, it deletes the oldest SPack. You set separate file limits for VOS OS SPack files and Director OS SPack files.

To change the number of OS SPacks that the Director node retains for a VOS device:

1. In Director view, select the Administrator tab in the top menu bar.
2. Select Inventory > Software Images in the left menu bar.
3. In the OS Security (OS SPack) tab, select the Package Downloads tab.



4. Click the OS SPack File Limit icon.
5. In the Set SPack File Limit popup window, enter the maximum number of SPacks to retain on the Director node for the VOS device. The default is 5. You configure the file limit as per the system memory availability.



6. Click OK.

Download and Install an OS SPack on a VOS Device for Releases 21.2 and Earlier

For Releases 21.2.x and earlier.

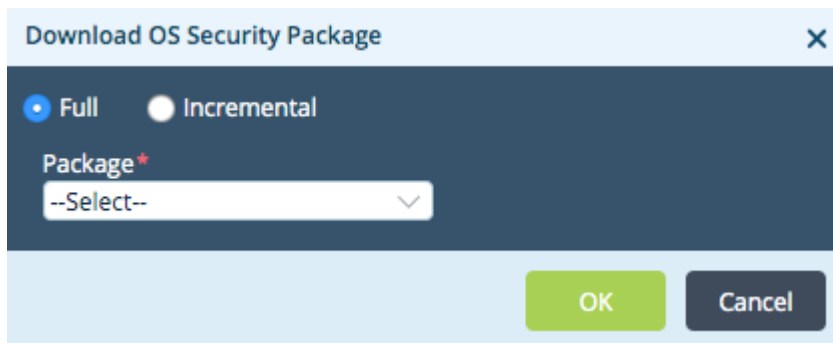
1. Before you download and install the OS SPack, configure DNS settings so that the Director node can locate the server from which to download OS SPack. For more information about DNS settings, see [Configure DNS Settings](#).
2. In Director view, select the Administrator tab in the top menu bar.
3. Select Inventory > OS Security Package > Appliance in the left men bar. The table in the main pane lists the OS SPacks that have already been installed.




The screenshot shows the Versa Director Administration console. The left sidebar has a tree view with 'Inventory' expanded, and 'OS Security Package' > 'Appliance' selected. The main pane displays a table with the following data:

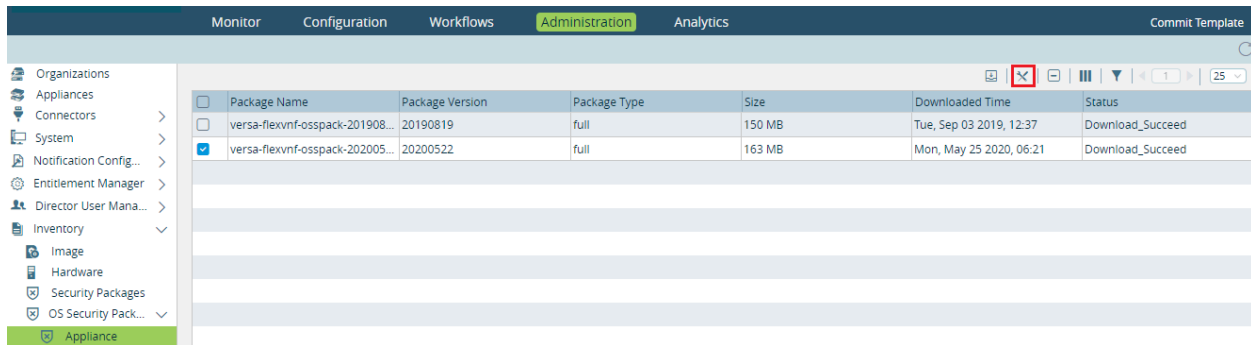
Package Name	Package Version	Package Type	Size	Downloaded Time	Status
versa-flexvnf-oss-pack-20200214.bin	20200214	full	156 MB	Thu, Mar 12 2020, 18:19	Download_Succeed

4. Click the  Download icon to download the OS Security package. The Download OS Security Package popup window displays.

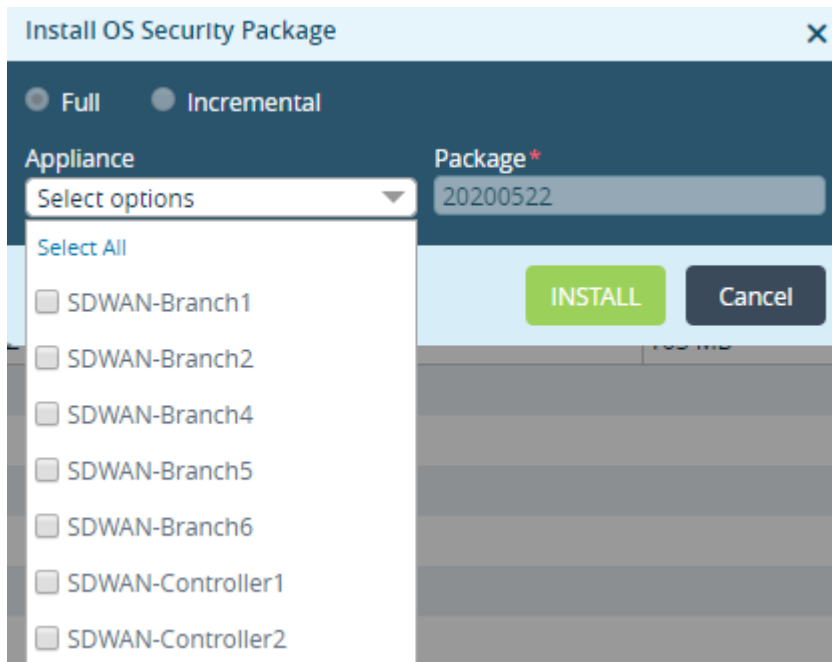


The screenshot shows a 'Download OS Security Package' dialog box. It has two radio buttons: 'Full' (selected) and 'Incremental'. Below them is a 'Package*' dropdown menu with '--Select--' as the current selection. At the bottom are 'OK' and 'Cancel' buttons.

5. Click Full to download an OS SPack to a VOS device. In the Package field, select the name of the OS SPack package. Note that the Incremental option is not supported.
6. Click OK. The OS SPack is downloaded, and it is then listed in the table in the main pane.
7. Select the OS SPack from the main pane, and then click the  Install icon.




8. The Install OS Security Package popup window displays.



9. In the Appliance field, select the VOS device or devices on which to install the OS SPack, or click Select All to select all devices.

10. Click Install.

11. To check the status of the download and installation of the OS SPack, click the  Tasks icon in the horizontal menu bar.



The Tasks popup window displays details of the OS SPack download tasks, including failed, pending, in progress, successful, and total tasks.

Tasks								
Failed 3 Pending 0 In Progress 0 Success 87 Total 90								
<input type="checkbox"/>	>	ID	User	Activity	Time		Description	Progress
					Start Time	End Time		
<input type="checkbox"/>	>	90	Administrator	OS Security Packag...	Mon, May 25 2020, ...	Mon, May 25 2020, ...		✓
<input type="checkbox"/>	✓	89	Administrator	OS Security Packag...	Mon, May 25 2020, ...	Mon, May 25 2020, ...		✓
Description : OS Security Package Download-OS Security Package Download Initiated by : Administrator Running Messages : <ul style="list-style-type: none"> Download in progress versa-flexvnf-osspace-20200522.bin download versa-flexvnf-osspace-20200522.bin download versa-flexvnf-osspace-20200522.bin download versa-flexvnf-osspace-20200522.bin download versa-flexvnf-osspace-20200522.bin download versa-flexvnf-osspace-20200522.bin download versa-flexvnf-osspace-20200522.bin download versa-flexvnf-osspace-20200522.bin download versa-flexvnf-osspace-20200522.bin download 								

To display a list of OS SPack versions that are present on a VOS device, issue the following CLI command:


```
versa-flexvnf-cli> show security osspace info
```

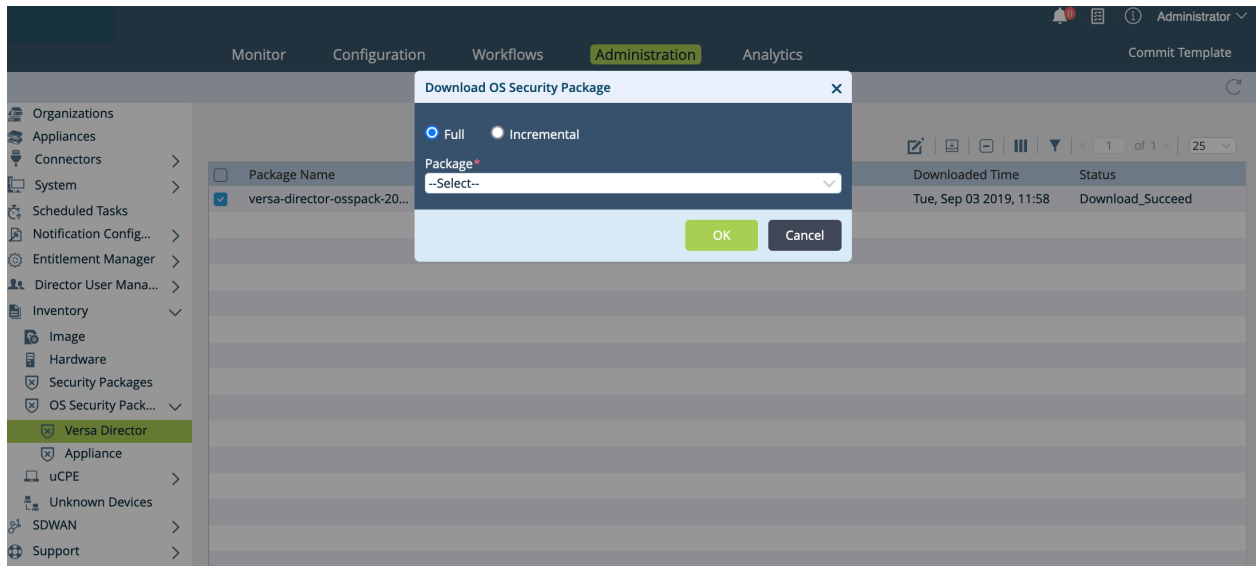
Download and Install an OS SPack on a Director Node for Releases 21.2 and Earlier

For Releases 21.2.x and earlier.

The OS SPack is a self-installable binary file. You can download the file from the Director GUI or you can download it manually, directly to the Director node.

To download an OS SPack to a Director node and then install it:

- To download the OS SPack binary file from the Director GUI:
 - In Director view, select the Administration tab in the top menu bar.
 - Select Inventory > OS Security Pack > Versa Director in the left menu bar.
 - Click the  Download icon.
 - In the Download OS Security Package popup window, select the name of the software package.



- e. Click OK. The downloaded file is saved in the `/var/versa/packages/osspack/versa-director/` directory.
2. To download the OS SPack binary file manually:
 - a. Download the binary file from the folder at <https://versanetworks.box.com/v/osspack> or from the alternate download server, <https://upload.versa-networks.com/index.php/s/nEkF9xOO3e7BA9Z>. An example of an OS SPack filename is `versa-director-osspack-20200214.bin`.
 - b. Copy the OS SPack file to the Director node. You can copy the file using SCP. For AWS, you must use SSH keys to perform SCP.
3. Install the security update by executing the following Linux commands from a bash shell:

```
~$ chmod a+x filename.bin
~$ sudo ./filename.bin
```

Note: When you install the OS SPack, no running services on the Director node are affected, and you do not need to restart any services.

To display a list of OS SPack versions that are present on a Director node, SSH into the node and issue the following shell command:

```
cat /opt/versa/etc/osspack/manifest.json | grep "version":'
```

Note that in this command, the text string **version** is preceded by a single quotation mark followed by a double quotation mark.

Download and Install an OS SPack on an Analytics Node

To download and install an OS SPack on an Analytics node, follow the procedure in the previous section, [Download and Install an OS SPack on a Director Node](#). Ensure that the binary file that you download and use to install the security update is the binary file for Analytics.

You can also download the OS SPack by issuing the following commands from the CLI:

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/Use_OS_Security_Packages

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```
request security osspack check updates
request security osspack download bundle version
request security osspack download file filename (for Releases 21.1.4 and later)
request security osspack install bundle bundle-name
```

To display a list of OS SPack versions that are present on an Analytics node, for Releases 21.1.1 and later, issue the following CLI command:

```
analytics-cli> show security osspack info
```

For releases prior to Release 21.1.1, SSH into the Analytics node and issue the following shell command:

```
cat /opt/versa/etc/osspack/manifest.json | grep "version":'
```

Note that in this command, the text string **version** is preceded by a single quotation mark followed by a double quotation mark.

Troubleshoot OS SPacks

This section describes command you can use to verify the OS SPacks on Director nodes and VOS devices and to troubleshoot the OS SPack installation. For Releases 21.1.1 and later, you can also use these commands on Analytics nodes. Before you can issue these commands, you must configure DNS settings, as described in [Configure DNS Settings](#).

To troubleshoot OS SPacks on Versa Analytics (for Releases 21.1.1 and later):

- To verify details about the OS SPack, run the **show security osspack info** CLI command. The command output displays the OS SPack version and update type.

To troubleshoot OS SPacks on Versa Director:

- To verify details about the OS SPack, run the **show security osspack info** CLI command. The command output displays the OS SPack version and update type.

To troubleshoot OS SPacks on VOS devices:

- To verify details about the OS SPack, run the **show security osspack info** CLI command. The command output displays the OS SPack version and update type.
- To check whether OS SPack updates are available, run the **request security osspack check updates** CLI command.
- To verify the OS SPack download bundle version number, run the **request security osspack download bundle version *version number*** CLI command.

Supported Software Information

Releases 20.2 and later support all content described in this article, except:

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/Use_OS_Security_Packages

Updated: Thu, 24 Oct 2024 10:44:14 GMT

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- Release 21.1.1 adds support for troubleshooting commands for Analytics devices.
- Release 21.1.4 adds the **request security osspack download file** command on Analytics devices.
- Release 22.1 enhances the GUI screens for using OS SPacks with Director and VOS devices; you can edit OS SPack download parameters and set the OS SPack file limit.
- Release 22.1.4 supports manual upload of OS SPack files for Director and VOS devices.

Additional Information

[Configure DNS Settings](#)

[Use Security Packages](#)