

# Quick Start

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## Juniper Content Security

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## Step 1: Begin

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### Meet Juniper Content Security

The Juniper Networks Content Security solution provides comprehensive protection against malware, viruses, phishing attacks, intrusions, spam and other threats for SRX Series Firewalls. By consolidating security features and services into one device or service, Juniper Content Security streamlines the installation and management of Juniper's expansive security solutions.

Most Juniper Content Security features are available as a subscription service and require a license. In this guide, we walk you through how to activate your subscription and generate license keys, and how to install the license keys on your SRX Series Firewalls. We also show you how to enable a default Avira Antivirus profile.

## Juniper Content Security Features

Here's a summary of the Juniper Content Security features and which ones require licenses.

Content Security Feature	Requires License	Description
Antispam Filtering	Yes	Antispam filtering allows you to tag or block unwanted email traffic by scanning inbound and outbound SMTP e-mail traffic. Antispam filtering allows you to use both a third-party server-based spam block list (SBL) and to optionally create your own local allowlists and blocklists for filtering against email messages. The antispam feature is not meant to replace your antispam server, but to complement it. To learn more about Antispam filtering, see <a href="#">Antispam Filtering Overview</a> .
Antivirus	Yes	There are two types of Juniper Content Security Antivirus features: Sophos and Avira. Sophos antivirus is an in-the-cloud antivirus solution which offers decoding support for application layer protocols such as HTTP, HTTPS, FTP, SMTP, POP3, and IMAP. To learn more about the content security Sophos antivirus features, see <a href="#">Sophos Antivirus Protection</a> . Avira antivirus is an on-device scan engine which scans network traffic for infected files, trojans, worms, spyware, and other malicious data, and immediately blocks the content. To learn more about the content security Avira antivirus features, see <a href="#">On-Device Avira Antivirus</a> .
Content Filtering	No	Content filtering blocks or permits certain types of traffic based on the MIME type, file extension, and protocol command. The content filter controls file transfers across the gateway by checking traffic against filter lists. To learn more about content filtering, see <a href="#">Content Filtering Overview</a> .
Web Filtering	Varies	The Web filtering module lets you manage Internet usage by preventing access to inappropriate Web content. There are three types of Web filtering: redirect Web filtering, local Web filtering, and enhanced Web filtering. Redirect and local Web filtering do not require a subscription license. To learn more about content security Web filtering, see <a href="#">Web Filtering Overview</a> .

## Activate and Install Juniper Content Security Subscriptions and Licenses

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Once you've purchased your Juniper Content Security subscription license(s), we'll send you a Juniper Software Entitlement Certificate by email that contains an authorization code and Software Support Reference Number (SSRN). You'll need these to activate your subscription and generate license keys for installing the subscription licenses on your SRX Series Firewalls.

Check out this link for more information about Juniper licensing: [Juniper Licensing User Guide](#).

### Before You Begin

- Install your SRX Series Firewalls and verify you have network access. The quickest and easiest way to do this is to follow the three-step instructions in the Quick Start guide for your SRX Series Firewall model. See [Quick Start](#)
- Set up a Juniper Networks user account to access the Customer Support Center or Partner Center. If you don't already have one, see [Account Setup](#). If you need help with account registration, see [Login Assistance](#).
- (For hardware devices only), have the product serial number handy.

You can find the product serial number by running the `show chassis hardware` command through the J-Web Monitor Dashboard.

- Verify that you've received the Juniper Software Entitlement Certificate we sent you in email. The certificate contains a 17-character activation code (sometimes referred to as authorization code or security key) and the SSRN.

**NOTE:** You can also find the activation code by running the `show system license` command through the J-Web Monitor Dashboard.

**NOTE:** The activation code expires in three days.

Here's an example of the Juniper Software Entitlement Certificate.



Juniper Networks (US), Inc.  
(California)  
370 W Caribbean Drive  
Sunnyvale  
94089

Date Issued	: 15-AUG-2018	Customer PO	: 12AB345C
Order Number	: 15012345	Model Number	: SRX320-CS-BUN-3
		Model Description	: 3 YR CONTENT SECURITY BUNDLE ON SRX320
<hr/>			
Juniper Software Entitlement Certificate			
Item#	Activation Code	Support Ref.No.	Quantity
<hr/>			
1	AbcdEF-GHijK-lmNoPQ	123456789123	2

## Activate Your Subscription

1. Log in to the [Juniper Networks Agile Licensing Portal](#) using the credentials you set up in your user account.
2. On the home page, enter your activation code in the Activate field and click **Activate**.  
The Product Activation page displays.
3. For hardware products, enter the device serial number in the **Device Serial Number** field.  
If the device serial number is not registered, you'll be routed to the product registration page. Fill in the page to register your device. Only hardware devices need to be registered.
4. In the **Select an Option** section, specify if you're activating the license for yourself or on behalf of an end customer. Only channel partners will see the option for activating on behalf of an end customer.
5. Enter the relevant email address in the **Send License Key via E-mail field** to email the license key.
6. Select the **I Agree with Terms & Conditions** checkbox.
7. Click **Activate**.
8. Enter a new location or use the default address.
9. Click **Submit**.  
The Confirmation page displays to confirm that the subscription is activated.
10. Click **I'm Done** to return to the Home page.  
Content security will generate your license keys and send them to the email address you specified.

If you don't receive the email message, check out the Troubleshooting section in the Juniper Knowledgebase article [KB9861](#).

Here are a few things to note about activating a subscription:

- The Entitlements section in the Juniper Agile Licensing portal lists the activation codes that are linked to your Juniper Networks company account and awaiting activation.

- You use the Juniper Networks Agile Licensing Portal to activate perpetual and subscription software licenses.
- During the activation process, the Juniper Networks Agile Licensing Portal also registers the products to your company.

## Install the Subscription License on an SRX Series Firewall

Now that you've activated your Juniper Content Security subscription and have your license keys, you're ready to install the subscription license on your SRX Series Firewall.

1. Establish basic network connectivity with the SRX Series Firewall.
2. Run the `set system license keys key name` command.

The *name* parameter includes the license ID and the license key. For example:

```
[edit]
user@device# set system license keys key "ANTI_SPAM_KEY_SBL" xxxxxx xxxxxx xxxxxx xxxxxx xxxxxx xxxxxx
xxxxxx xxxxxx xxxxxx xxxxxx xxxxxx xxxxxx xxxxxx
```

To install multiple license keys, run the `set system license keys key name` command for each license key to install. For example:

```
[edit]
user@device# set system license keys key "key_1"
set system license keys key "key_2"
set system license keys key "key_2"
set system license keys key "key_4"
```

3. Commit the configuration.

```
[edit]
user@device# commit
commit complete
```

4. Verify that the license keys were installed.

```
user@device# show system license
root> show system license
License usage:
```

Feature name	Licenses used	Licenses installed	Licenses needed	Expiry
anti_spam_key_sbl	0	1	0	2021-06-11 09:36:04 UTC
av_key_sophos_engine	0	1	0	2021-06-11 09:36:04 UTC
wf_key_websense_ewf	0	1	0	2021-06-11 09:36:04 UTC

**NOTE:** You can also run the `show system license` command from operational mode.

For SRX300, SRX320, SRX340, SRX345, and SRX550M firewalls, reboot the device after you install the license(s). The SRX Series Firewall reserves additional memory for Juniper Content Security features. This decreases the session capacity.

For SRX4600, SRX5600 and SRX5800 firewalls, run the following command to manually reallocate the memory for content security features:

```
user@host> set security forwarding-process application-services enable-utm-memory
```

Reboot the device for the configuration to take effect.

**NOTE:** SRX1500, SRX4100 and SRX4200 firewalls have enough memory for Juniper Content Security. You don't need to allocate memory for these devices.

**NOTE:** You'll need to reinstall the license after installing or upgrading to a new Junos OS Release version. Unlicensed features, such as Juniper Content Security blocklists and allowlists, will continue to function without a license.

## Step 2: Up and Running

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## Enable the Juniper Networks Default Avira Antivirus Profile

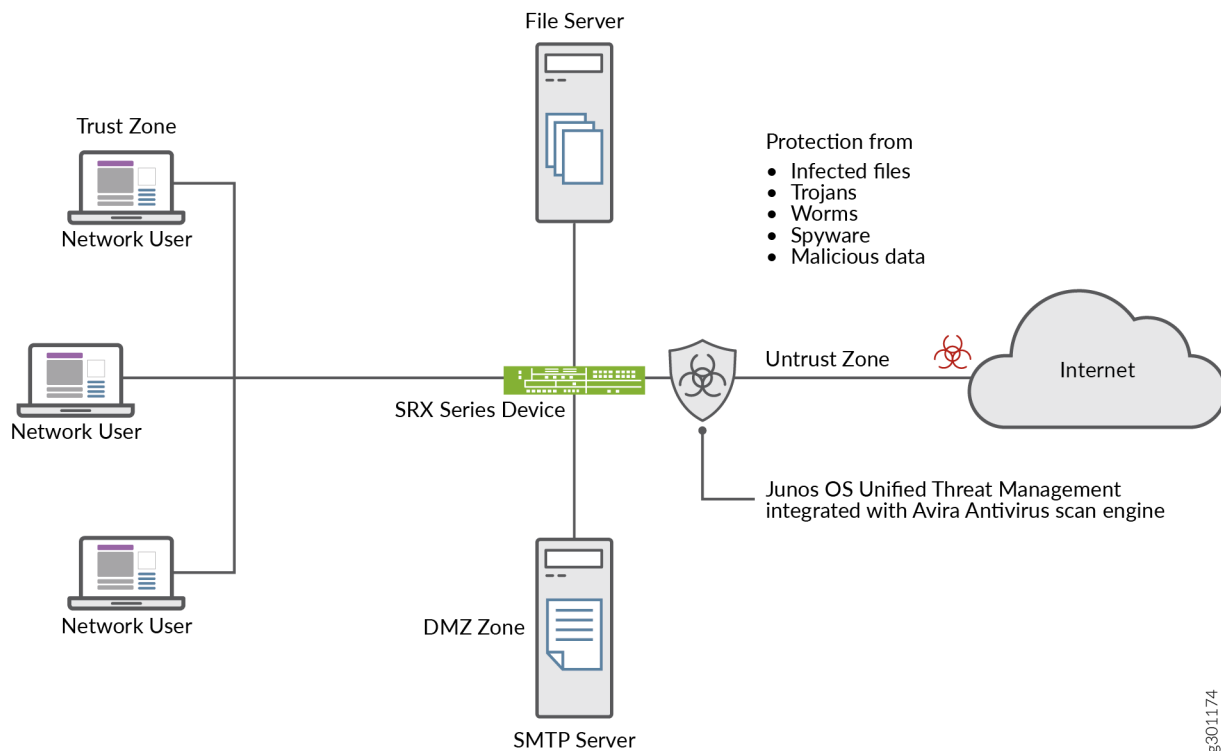
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As an introduction to using the Juniper Content Security solution, let's enable , Avira antivirus. In this example, we show you how to enable a preconfigured default Avira antivirus profile. When you enable the default Avira antivirus profile, you don't have to configure additional parameters. Instead, you create a security policy with default antivirus profiles for all protocols, and apply the security policy for the permitted traffic.

Here's an example of how an SRX Series Firewall interacts with Avira antivirus in a typical enterprise network.



## Before You Begin

- Verify that you have a Juniper Networks Avira Antivirus license and that it's enabled on the SRX Series Firewalls. For more information on how to verify which licenses are activated on an SRX Series Firewall, see [Juniper Licensing User Guide](#).
- Install your SRX Series Firewalls with Junos OS Release 18.4R1 or later.

We've tested this example using an SRX1500 firewall with Junos OS Release 18.4R1.

## Configure the SRX to Use the Default Avira Antivirus Profile

1. Enable the Avira antivirus scan engine on your SRX Series Firewall.

```
user@host# set security utm default-configuration anti-virus type avira-engine
```

2. Reboot the SRX Series Firewall so the new scan engine can take effect.
3. Set the default antivirus profile for HTTP, FTP, SMTP, POP3, and IMAP protocols.

```
[edit]
user@host# set security utm default-configuration anti-virus type avira
user@host# set security utm utm-policy P1 anti-virus http-profile junos-av-defaults
user@host# set security utm utm-policy P1 anti-virus ftp upload-profile junos-av-defaults
user@host# set security utm utm-policy P1 anti-virus ftp download-profile junos-av-defaults
user@host# set security utm utm-policy P1 anti-virus smtp-profile junos-av-defaults
user@host# set security utm utm-policy P1 anti-virus pop3-profile junos-av-defaults
user@host# set security utm utm-policy P1 anti-virus imap-profile junos-av-defaults
```

4. Apply the default antivirus profile to the security policy.

```
[edit]
user@host# set security policies from-zone trust to-zone untrust policy POLICY-1 match source-address any
user@host# set security policies from-zone trust to-zone untrust policy POLICY-1 match destination-address any
user@host# set security policies from-zone trust to-zone untrust policy POLICY-1 match application any
user@host# set security policies from-zone trust to-zone untrust policy POLICY-1 then permit application-services utm-policy P1
```

5. Commit the configuration.

```
[edit]
user@host# commit
```

You can also watch the video [Avira Antivirus Solution on SRX Series Firewalls](#) to understand how to install and use Avira antivirus on your SRX Series Firewalls.

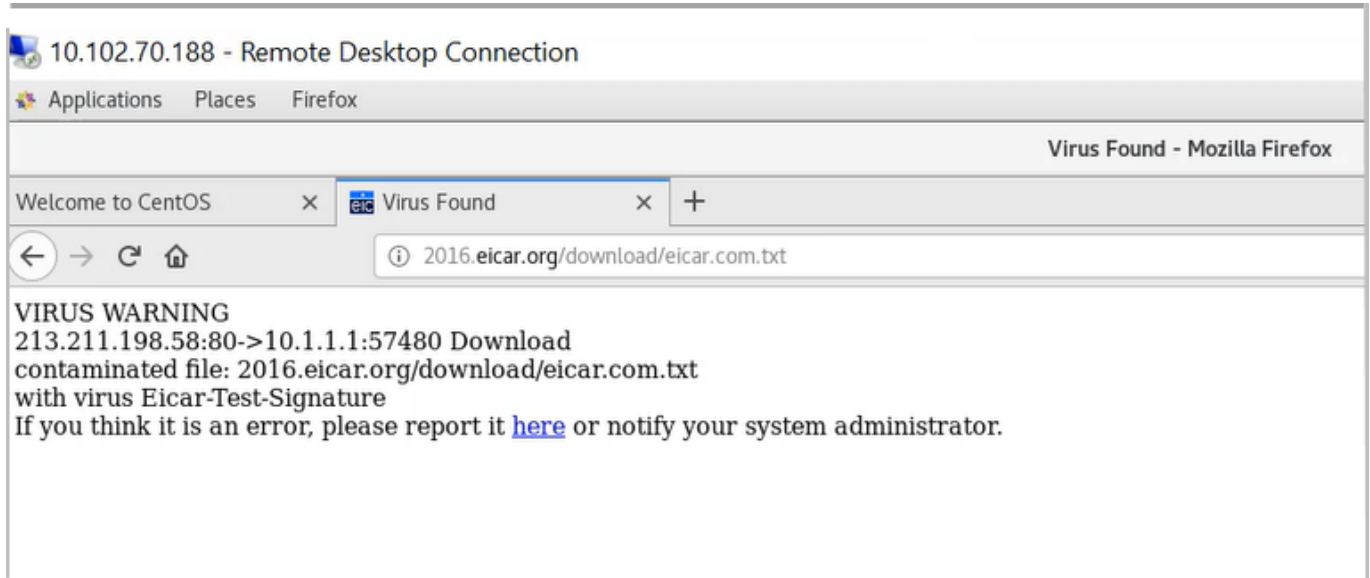
## Validate Avira Antivirus on the SRX

Here's a safe way to verify that the Avira antivirus solution is working on an SRX Series Firewall:

1. Access the EICAR website.  
<https://eicar.org>.
2. Download the Anti-malware test file.
3. Follow the instructions on the screen.

When you try to download an unsafe file, your device will display an error message. The message indicates that your device has blocked malicious content.





## Step 3: Keep Going

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Congratulations! You've completed the initial steps to get Juniper Content Security up and running. Let's keep going and learn more about what you can do with the Juniper Content Security solution.

## What's Next?

Now that your devices are subscribed to Juniper Content Security, here are some things you can do next.

If you want to	Then
Continue configuring Antivirus protection	See <a href="#">Antivirus Protection</a>
Configure Antispam filtering	See <a href="#">Antispam Filtering</a>

*(Continued)*

If you want to	Then
Configure content filtering settings	See <a href="#">Content Filtering</a>
Learn more about Unified Policies	View the <a href="#">Introduction to Unified Policies</a> video

## General Information

Here are some excellent resources that will help you take your Juniper Content Security knowledge to the next level:

If you want to	Then
Find in-depth product documentation for Juniper Content Security	Check out the <a href="#">Juniper Content Security User Guide</a> in the Juniper TechLibrary
Understand the latest security advisories, and get a little extra help implementing your security solution	Take advantage of these awesome Juniper support resources: <ul style="list-style-type: none"> <li>• <a href="#">Security Advisories</a></li> <li>• <a href="#">Security Services</a></li> <li>• <a href="#">JTAC and Customer Care Contact Information</a></li> </ul>
See all documentation available for Junos OS	See the <a href="#">Junos OS Documentation</a>
Stay up to date on new and changed features and known and resolved issues	See the <a href="#">Junos OS Release Notes</a>
Learn about training and certification opportunities	Explore these options: <ul style="list-style-type: none"> <li>• <a href="#">Juniper Security (JSEC) On-Demand</a></li> <li>• <a href="#">Junos Networks Security Learning Path</a></li> <li>• <a href="#">Security Certification Track</a></li> </ul>
Ask your peers. Connect to labs. Find new learning opportunities	Visit the <a href="#">Intrusion Prevention Forum</a>

