

How to Set Up Your SRX340 Services Gateway

The SRX340 Services Gateway consolidates security, routing, switching, and WAN interfaces for midsize distributed enterprises. With advanced threat mitigation capabilities, the services gateway provides cost-effective and secure connectivity across distributed enterprises.

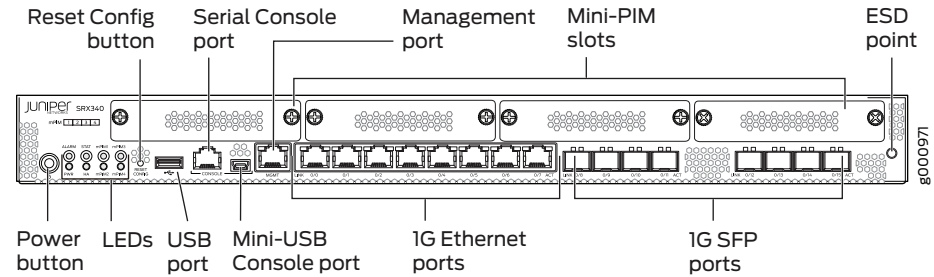
The SRX340 Services Gateway has a capacity of 3 gigabits per second (Gbps) and is 1 rack unit (U) tall. The services gateway has eight 1-Gigabit Ethernet RJ-45 ports, eight 1-Gigabit Ethernet SFP ports, one management port, 4 GB of DRAM memory, 8 GB of flash memory, and four Mini-Physical Interface Module (Mini-PIM) slots.

Package Contents

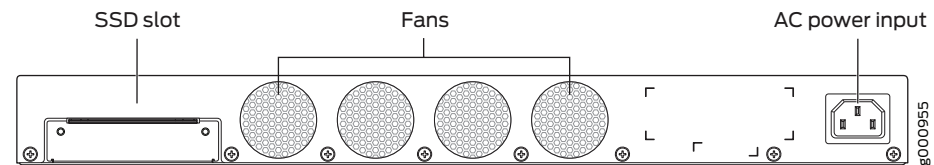
Verify that you have the following parts available:

- SRX340 Services Gateway
- RJ-45 cable with DB-9 adapter
- Power cable
- Mounting brackets and screws
- USB cable
- Warranty and registration information
- End User License Agreement
- Quick Start Guide

Front Panel



Back Panel



NOTE: The SRX340 Services Gateway shipment package contains a packing list. Check the parts in the shipment against the items on the packing list. If anything is missing or damaged, contact your Juniper Networks customer service representative.

Specification	Value
Dimensions (D x W x H)	14.57 in. x 17.36 in. x 1.72 in. (37.01 cm x 44.09 cm x 4.37 cm)
Chassis weight	10.80 lb (4.89 kg)
Average power consumption	122 W
Average heat dissipation	420 BTU/hour
Relative humidity	5% to 90%, noncondensing



Factory-Default Settings

Security Policies

Source Zone	Destination Zone	Policy Action
trust	untrust	permit
trust	trust	permit

NAT Rules

Source Zone	Destination Zone	Policy Action
trust	untrust	Source NAT to untrust zone interface

Interfaces

Port Label	Interface	Security Zone	DHCP State	IP Address
0/0 and 0/15	ge-0/0/0 and ge-0/0/15	untrust	Client	Dynamically assigned
0/1 to 0/14	VLAN Interface irb.0 (ge-0/0/1 to ge-0/0/14)	trust	Server	192.168.2.1/24
MGMT	fxp0		Server	192.168.1.1/24
	cl-1/0/0			
	dl0	untrust		ISP assigned*

* Only if the LTE Mini-PIM is present

Services

Services
SSH
HTTPS
NETCONF over SSH

Protocols

Protocols
RSTP (all interfaces)

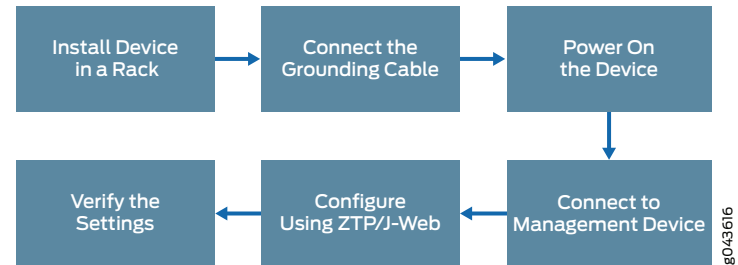
Screens

Screens
Basic set of screens are enabled on the untrust zone

Device Startup Mode

Device Startup Mode
Switching

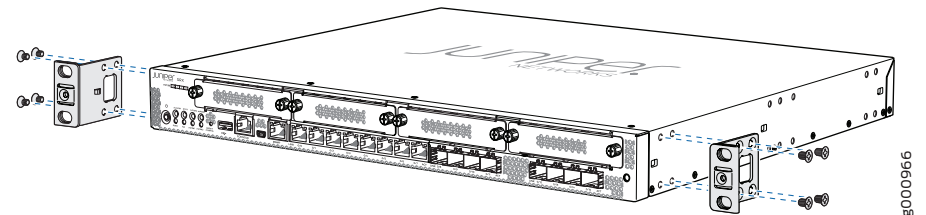
Initial Configuration Process



NOTE: Before you begin the installation, see the *Safety Guide* at <https://www.juniper.net/documentation/hardware/safety-guide/translated/index.html>.

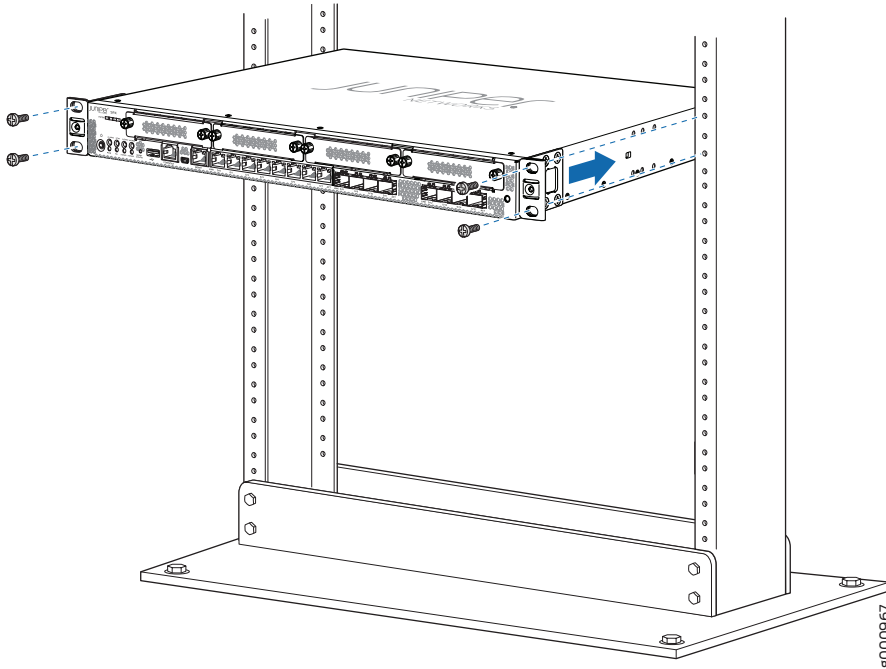
Install the Device in a Rack

1. Position a mounting bracket on each side of the chassis. Use a Phillips (+) screwdriver, number 2 to install the screws that secure the mounting brackets to the chassis. Use either the front or center mount position.



2. Have one person grasp the sides of the device, lift it, and position it in the rack. Align the bottom hole in each mounting bracket with a hole in each rack rail, making sure that the chassis is level.
3. Have a second person install a mounting screw into each of the two aligned holes. Use a number-2 Phillips screwdriver to tighten the mounting screws.

4. Install the second screw in each mounting bracket.

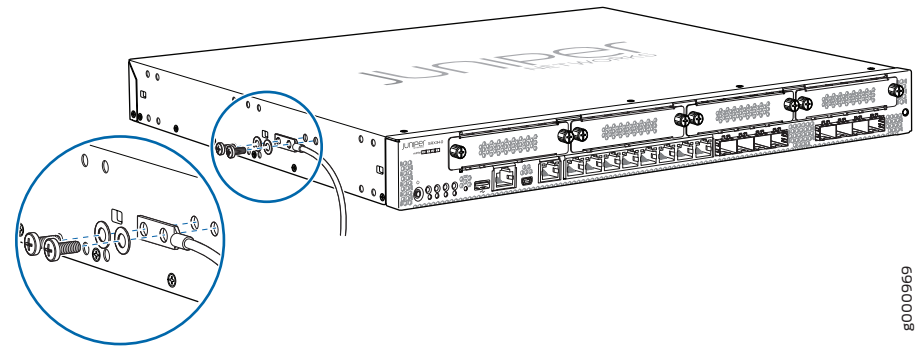


5. Verify that the mounting screws on one side of the rack are aligned with the mounting screws on the opposite side and that the device is level

Connect the Grounding Cable

1. Attach an ESD strap to an ESD point and place the other end of the strap around your bare wrist.
2. Connect the grounding cable to a proper earth ground. Place the grounding cable lug over the grounding point on the side of the chassis.

i NOTE: The device should be permanently connected to ground during normal operation. A licensed electrician must attach a cable lug to the grounding cable. A cable with an incorrectly attached lug can damage the device.

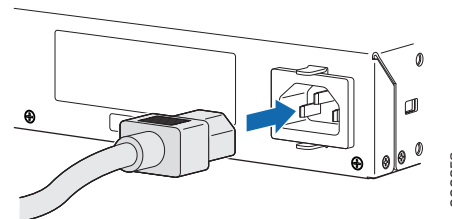


3. Secure the grounding cable lug to the grounding point with the screws.

Power On the Device

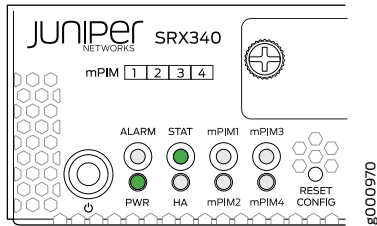
i NOTE: Before connecting the device to the power supply, attach an ESD strap to an ESD point and place the other end of the strap around your bare wrist.

1. Insert the appliance coupler end of the power cord into the appliance inlet on the power supply faceplate.



2. Insert the power cord plug into an external AC power source receptacle.

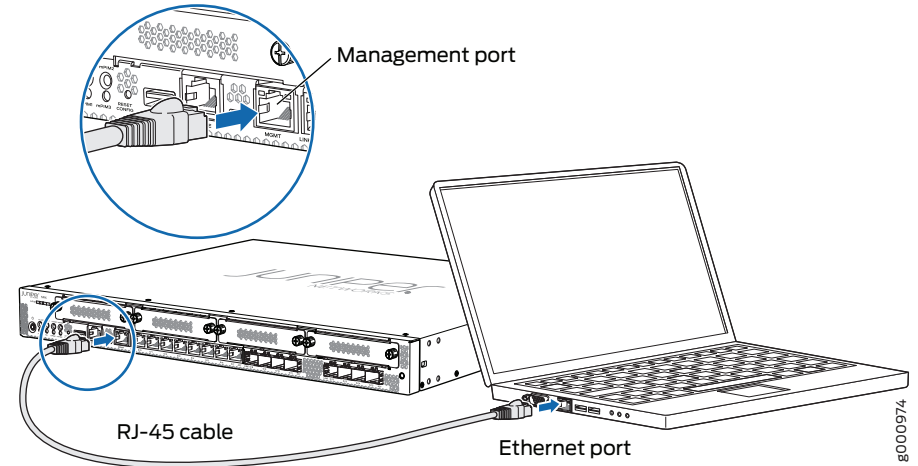
- Turn on the power to the AC power receptacle.
- Note the following LED indications. Wait until the STATUS LED is solid green before proceeding to the next step.



LED	State
ALARM	<ul style="list-style-type: none"> Solid amber (noncritical alarm). Solid red (critical alarm). Off (no alarms).
STAT	<ul style="list-style-type: none"> Solid green (operating normally). Solid red (error detected).
PWR	<ul style="list-style-type: none"> Solid green (receiving power). Solid red (power failure). Off (no power).
HA	<ul style="list-style-type: none"> Solid green (all HA links are available). Solid amber (some HA links are unavailable). Solid red (HA links are not functional). Off (HA is disabled).
mPIM1, mPIM2, mPIM3, and mPIM4	<ul style="list-style-type: none"> Solid green (Mini-PIM is functioning normally). Solid red (Mini-PIM hardware failure). Off (Mini-PIM is not present or Mini-PIM is not detected by the device).

Connect the Management Device

- To configure the device using J-Web (recommended), connect the management port **MGMT** to the Ethernet port on the management device, using an RJ-45 cable.



- The services gateway functions as a DHCP server and automatically assigns an IP address to the management device. Ensure that the management device acquires an IP address on the 192.168.1.0/24 network from the device.

If an IP address is not assigned to the management device, manually configure an IP address in the 192.168.1.0/24 network. Do not assign the 192.168.1.1 IP address to the management device, as this IP address is assigned to the services gateway. By default, the DHCP server is enabled on the L3 VLAN interface, irb.0 (interface ge-0/0/1 to ge-0/0/14), which is configured with an IP address of 192.168.1.1/24.



NOTE: The ge-0/0/0 and ge-0/0/15 interfaces (ports 0/0 and 0/15) are WAN interfaces. Do not use these ports for the initial configuration procedure.

- Connect port 0/0 or 0/15 to the ISP device to obtain a dynamic IP address.
- Access the J-Web interface (<https://192.168.1.1>). The recommended browser is Internet Explorer version 10 or 11, Mozilla Firefox version 46 (or later), or Google Chrome 55 (or later).

To configure the device using Zero Touch Provisioning, follow the procedure in the “Configure the Device Using ZTP with Juniper Networks Network Service Controller” section.

To configure the device using J-Web, click **Skip to J-Web** and follow the procedure in the “Configure the Device Using J-Web” section.

Configure the Device Using ZTP with Juniper Networks Network Service Controller

Zero Touch Provisioning (ZTP) enables you to complete the initial configuration of the SRX340 Services Gateway in your network automatically, with minimum intervention.

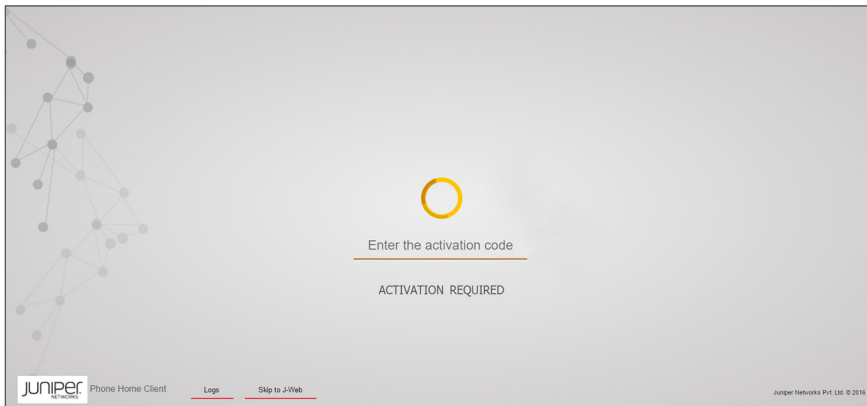
Network Service Controller is a component of the Juniper Networks Contrail Service Orchestration platform that simplifies and automates the design and implementation of custom network services that use an open framework.

For more information, refer to the Network Service Controller section in the datasheet at <http://www.juniper.net/assets/us/en/local/pdf/datasheets/1000559-en.pdf>.

To configure the device automatically using ZTP:

NOTE: To complete the ZTP process, ensure that the services gateway is connected to the Internet. See the “Connect the Management Device” section.

- If you already have the authentication code, enter the code in the webpage displayed.



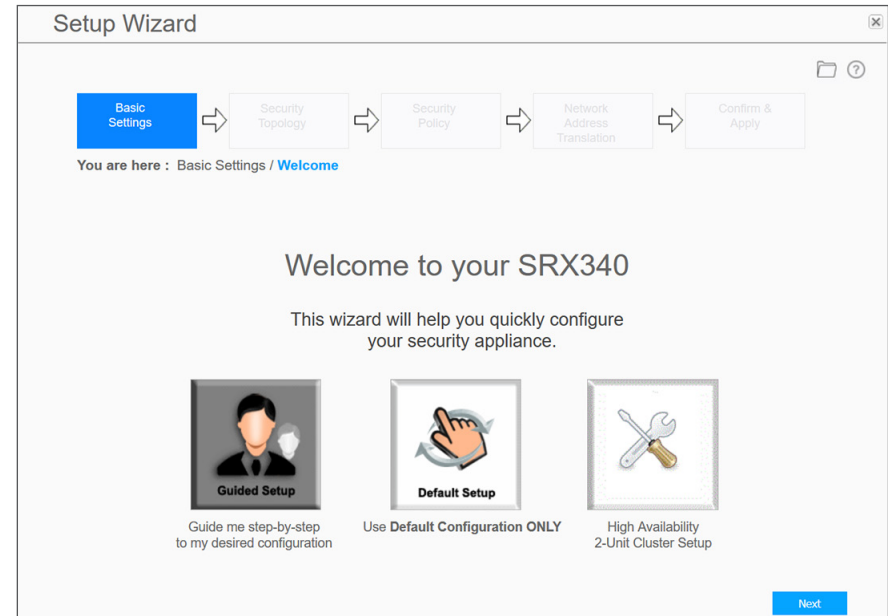
On successful authentication, the initial configuration is applied and committed on the services gateway. Optionally, the latest Junos OS image is installed on the device before the initial configuration is applied.

- If you do not have the authentication code, you can use the J-Web setup wizard to configure the services gateway. Click **Skip to J-Web** and follow the procedure in the “Configure the Device Using J-Web” section.

Configure the Device Using J-Web

To configure the device using J-Web, follow the steps in this section.

1. Enter the root authentication password.
2. Select one of the following setup modes:

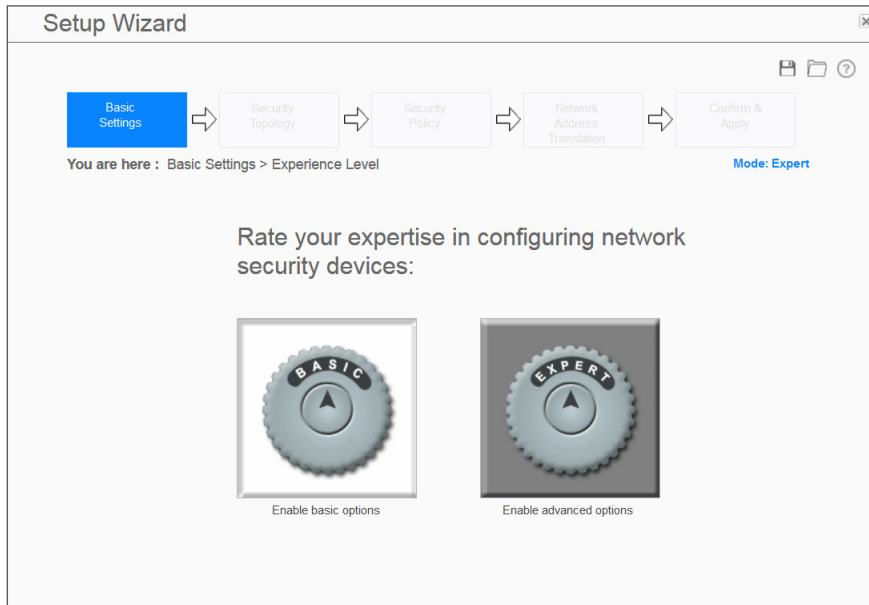


- Guided Setup (uses a dynamic IP address)—Allows you to set up the device in a custom security configuration. You can select either the **Basic** or the **Expert** option.
- Default Setup (uses a dynamic IP address)—Allows you to quickly set up the device with the default configuration. Any additional configuration can be done after the wizard setup is completed.
- High Availability—Allows you to set up a chassis cluster with a default basic configuration.

NOTE: The initial configuration requires that you specify the device name and root password. You can skip all the other steps and go directly to the Confirm & Apply page to apply the configuration.

Configure the Device Using the Guided Setup Mode

1. Select the expertise level as **Basic** or **Expert**.



The following table compares the Basic and Expert levels:

Options	Basic	Expert
Number of internal zones allowed	3	≥ 3
Internet zone configuration options	<ul style="list-style-type: none"> Static IP Dynamic IP 	<ul style="list-style-type: none"> Static IP Static pool Dynamic IP
Internal zone service configuration	Allowed	Allowed
Internal destination NAT configuration	Not allowed	Allowed

2. Configure the basic settings:

- a. Device name
- b. Password for the root account (Use the password that you entered in Step 1 of the “Configure the Device Using J-Web” section.)
- c. Management interface
- d. Time

3. Configure the security topology:

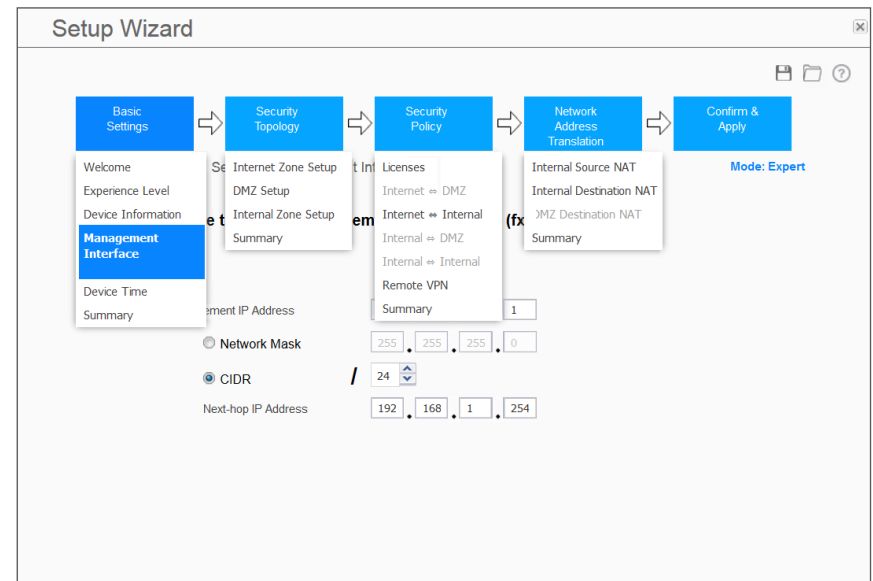
- a. Internet zone (Untrust)
- b. Internal zones (Trust)
- c. DMZ

4. Configure the security policy:

- a. Licenses (Security services)
- b. DMZ policy
- c. Internet and internal policies
- d. Remote VPN

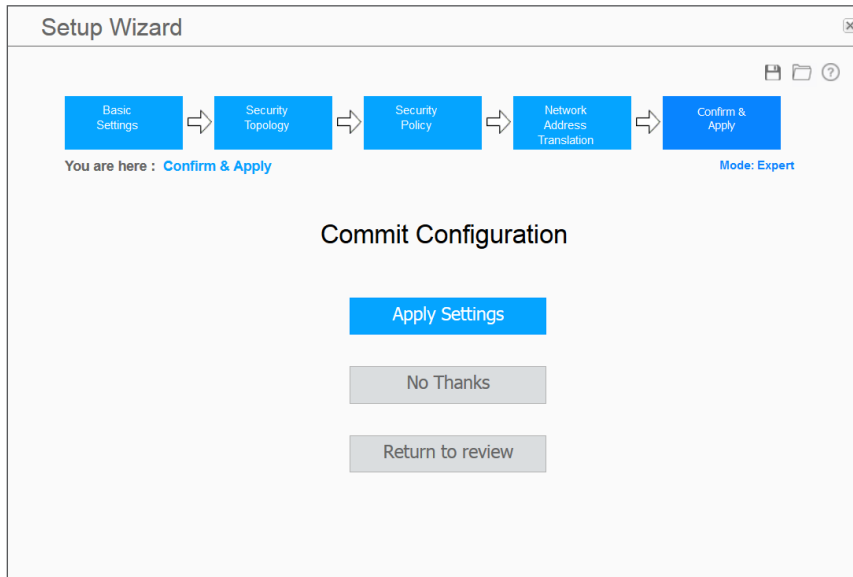
5. Configure Network Address Translation:

- a. Internal Source NAT
- b. Internal Destination NAT
- c. DMZ Destination NAT



6. Review the settings and click **Apply Settings**.

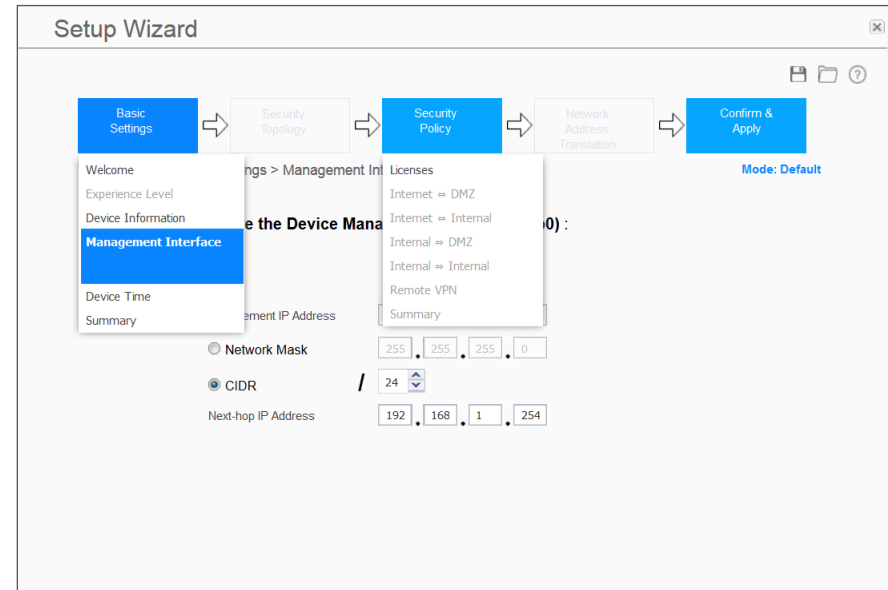
i **NOTE:** Check the connectivity from the management device to the SRX Series device. You might lose connectivity to the SRX Series device if you have changed the management interface IP. Click the URL for reconnection instructions on the Confirm & Apply page to reconnect, if required.



7. Click **Done** to complete the setup.

Configure the Device Using the Default Setup Mode

1. Configure the basic settings – device name, root account information, management interface, and system time.
2. Configure the security policy – licenses.



3. Review the settings.

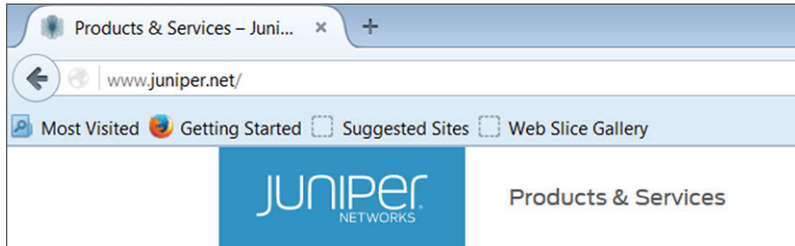
4. Click **Apply Settings**. Click **Done** to complete the setup.

i **NOTE:** Check the connectivity from the management device to the SRX Series device. You might lose connectivity to the SRX Series device if you have changed the management interface IP. Click the URL for reconnection instructions on the Confirm & Apply page to reconnect, if required.

You can also configure the services gateway using the CLI, by connecting to the Console port or the management port. For details, see the [SRX340 Services Gateway Hardware Guide](#).

Verify the Settings

Access <http://www.juniper.net> to ensure that you are connected to the Internet. This connectivity ensures that you can pass traffic through the services gateway.



If the page does not load, perform the following checks to see if you can identify the problem:

- Verify your configuration settings, and ensure that you have applied the configuration.
- Check if the ISP-supplied device connecting your SRX Series device to the Internet is turned on and working properly. Try turning it off and on again.

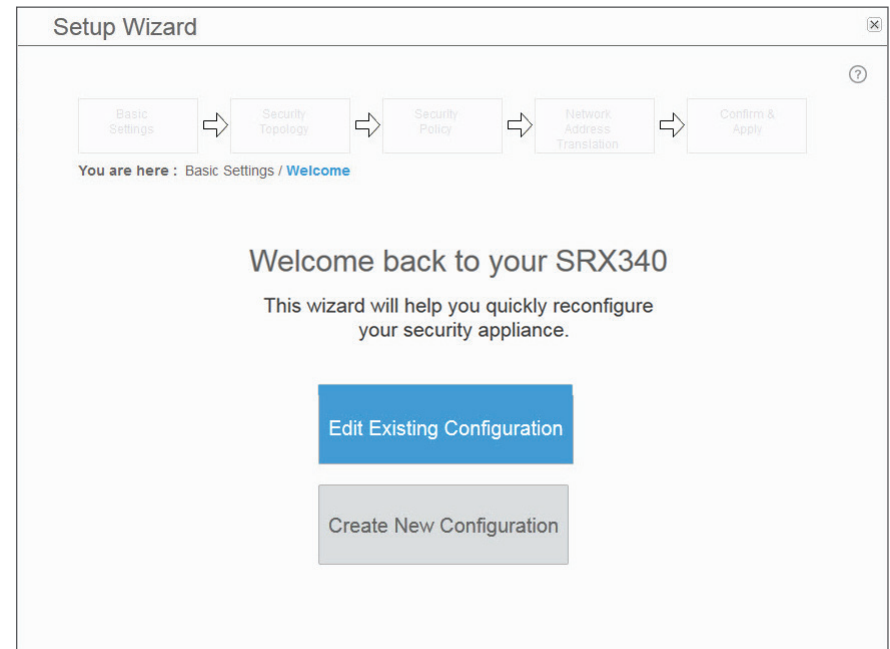
After you complete these steps, the SRX Series device can pass traffic from any trust port to the untrust port.



NOTE: With this step, you have successfully completed the initial configuration, and your SRX340 Services Gateway is ready for use.

Change the Configuration Settings (Optional)

After you complete the initial setup configuration, you can access the J-Web setup wizard by clicking **Configure > Device Setup > Set Up**. You can either edit the existing settings or create a new configuration. If you choose to create a new configuration, then all the current configuration in the services gateway will be deleted.



Power Off the Device

You can power off the device in one of the following ways:

- **Graceful shutdown**—Press and immediately release the Power button.
- **Forced shutdown**—Press the Power button, and hold it for 10 seconds.

After powering off a power supply, wait at least 60 seconds before turning it back on.

Reset the Configuration

Use the **RESET CONFIG** button to restore the device to the factory-default configuration or to a rescue configuration. To press the **RESET CONFIG** button, insert a small probe (such as a straightened paper clip) into the pinhole on the front panel.

Pressing and quickly releasing the **RESET CONFIG** button loads and commits the rescue configuration. The rescue configuration is a previously committed, valid configuration set through J-Web or the CLI. The STATUS LED is solid amber during this time.

Pressing and holding the **RESET CONFIG** button for 15 seconds or more, until the STATUS LED is solid amber, deletes all configurations (backup configurations and rescue configuration), and loads and commits the factory configuration.



NOTE: After resetting the device, check the device status by viewing the LEDs on the front panel. For information on the LED states, see the “Power On the Device” section.

Next Steps

For information on configuring features on your services gateway, refer to the following:

- Junos OS Documentation/Feature Configuration
http://www.juniper.net/techpubs/en_US/release-independent/junos/information-products/pathway-pages/srx-series/product/index.html
- Getting Started Knowledge Base Article
<https://kb.juniper.net/InfoCenter/index?page=content&id=KB15694>

Reference

Technical Support

<http://www.juniper.net/support/requesting-support.html>

SRX340 Services Gateway Hardware Guide

http://www.juniper.net/techpubs/en_US/release-independent/junos/information-products/pathway-pages/hardware/srx340/index.html

Supported Transceivers

<https://pathfinder.juniper.net/hct/product/#prd=SRX340>

