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# Barracuda Security Suite - Overview

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The Barracuda Security Suite includes three network security solutions in one integrated platform to protect against current and future threats. It is a hardware appliance with a built in virtualization environment that includes the following Barracuda virtual appliances:

- **Barracuda Firewall:** Provides next-generation app control at a granular level, enabling administrators to grant permissions and regulate app usage to prevent network intrusions.
- **Barracuda Web Filter:** Provides content filtering and malware, virus and spyware protection, blocking website exposure for increased productivity.
- **Barracuda Spam Firewall:** Provides inbound and outbound email filtering to prevent email-borne threats and data leaks.

By default, all network traffic is routed into the Barracuda Security Suite through the Barracuda Firewall Vx. Email traffic can then be directed to the Barracuda Spam Firewall Vx and Internet traffic can be directed to the Barracuda Web Filter Vx. Effectively, the Barracuda Security Suite combines the functionality of these three Barracuda virtual appliances in a single hardware platform.

## Where to Start

### Device Deployment

- Go to the [Barracuda Security Suite Getting Started](#) section, or
- Download the [Barracuda Security Suite Quick Start Guide](#)

## What's New in the Barracuda Security Suite

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### What's New in Version 1.1

**Single sign on:** Now when you sign on to the Barracuda Security Suite, you are automatically signed on to the Barracuda Web Filter Vx and the Barracuda Spam Firewall Vx as well.

For detailed information on the fixes and enhancements that are included in Barracuda Security Suite version 1.1, see:

- [Release Notes Version 1.1](#)

### Release Notes Version 1.1

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Before installing any firmware version, back up your configuration and read all release notes that apply to versions more recent than the one currently running on your system.

**Do not manually reboot your system at any time during an update** unless otherwise instructed by [Barracuda Technical Support](#). Depending on your current firmware version and other system factors, updating can take up to 10 minutes. If the process takes longer, contact Barracuda Technical Support for further assistance.

## New Features

- Single Sign-On (SSO) is now available between the Barracuda Security Suite and the Barracuda Web Filter Vx and the Barracuda Spam Firewall Vx.
- The **Shutdown** and **Restart** options are now available on the **BASIC > Administration** page.
- There is now a button on the **BASIC > Dashboard** page enabling you to force shut down any of the Barracuda Security Suite virtual machines.
- The Barracuda Web Filter Vx now automatically blocks certain categories of predefined websites.
- You can now modify the Management port IP address with the assistance of [Barracuda Technical Support](#).

## Known Issue

- If you have opened a support tunnel on the Barracuda Firewall Vx and you then restart the Barracuda Security Suite, when the Barracuda Security Suite comes back up, the support tunnel on the Barracuda Firewall Vx does not work. You will need to reestablish the support

tunnel. [BNSS-93]

## Fixes

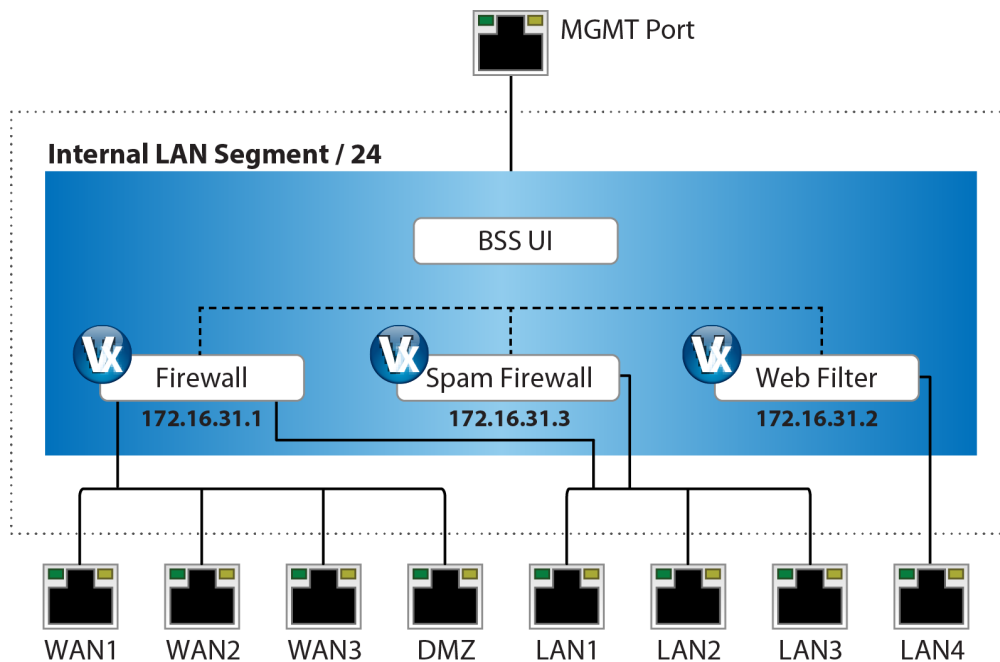
- Output from the environmental sensors are now displayed on the **BASIC > Dashboard** page. [BNSS-60]
- The Barracuda Web Filter Vx can now manage additional virtual IP addresses. The **ADVANCED > Advanced Networking** page is now available. And a virtual interface can now be assigned to a bridge device. [BNSS-83]
- The Barracuda Web Filter Vx and the Barracuda Spam Firewall Vx are now automatically rebooted after the Barracuda Security Suite is restarted from suspend mode. [BNSS-181]

## Deployment

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### Barracuda Security Suite Ports and Internal Network

This diagram illustrates the virtual network in the Barracuda Security Suite interconnecting the web interface with the Barracuda virtual appliances. Ensure that the virtual appliance internal IP addresses do not conflict with other devices in your internal network. The diagram also illustrates how the physical ports are connected to the virtual appliances. Most of the ports are connected to just the Barracuda Firewall Vx. LAN4 is connected to the Barracuda Web Filter Vx. The MGMT port is connected to the Barracuda Security Suite web interface.



**i** Do not change the default IP addresses. You could lose access to one or more of the virtual appliances.

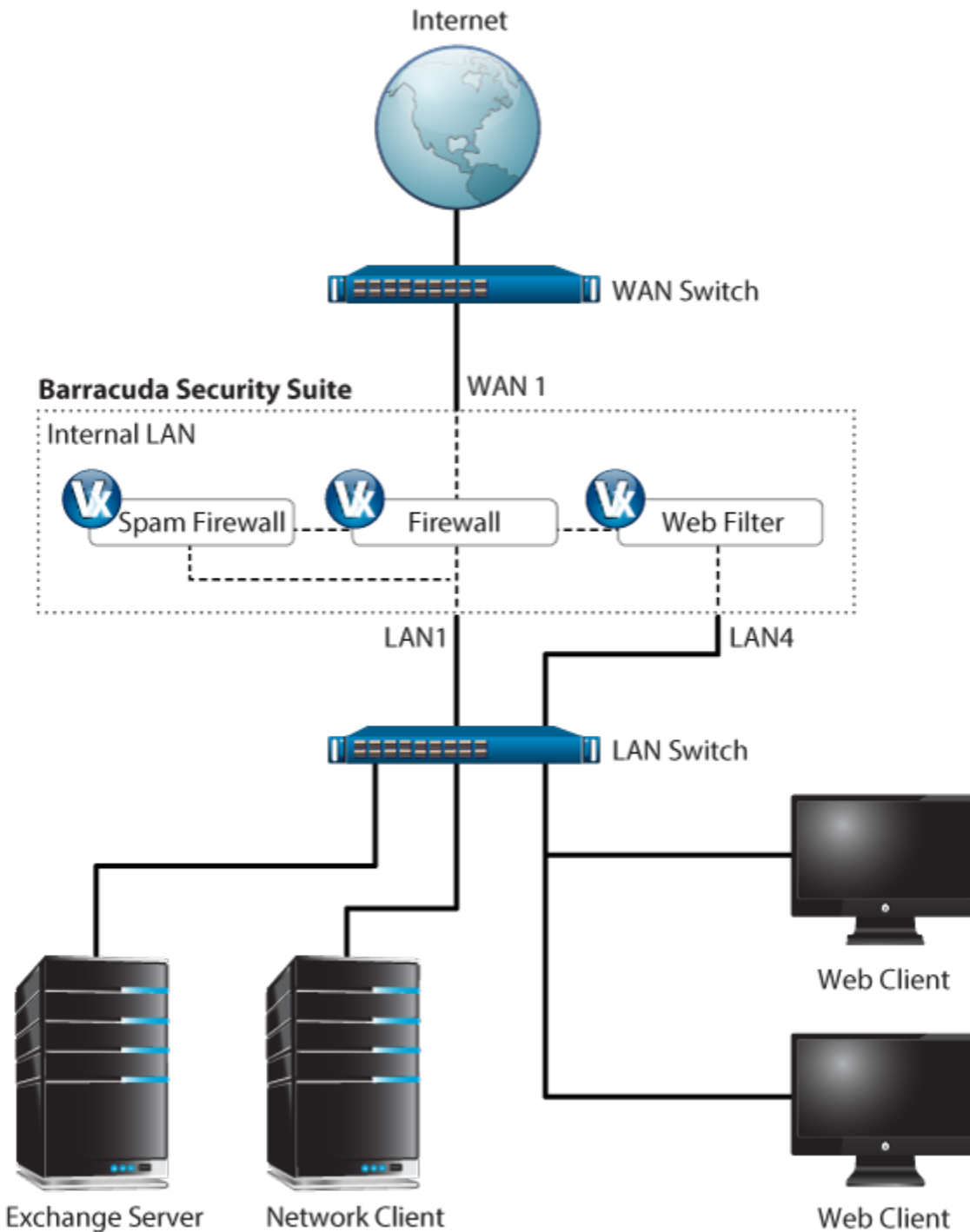
The following table lists all of the physical ports available on the Barracuda Security Suite and their function:

Port	Function
MGMT	Management
WAN1	Connect to Internet
WAN2	Disabled by default
WAN3	Disabled by default
DMZ	Disabled by default
LAN1	Connect to Internal Network
LAN2	Disabled by default

LAN3	Disabled by default
LAN4	Connect to Web Filter Clients

The disabled ports can be enabled using the Barracuda Firewall Vx user interface.

### Barracuda Security Suite Deployment



1. Connect the **WAN1** port to a DHCP enabled switch or router connected to the Internet. The Barracuda Security Suite should

automatically obtain the uplink WAN IP address.

2. You can also statically assign WAN IP address from within the Barracuda Firewall Vx and bind the static WAN IP address to port **WAN2**.
3. **LAN1** handles traffic coming directly from the Barracuda Firewall Vx and carries any email traffic from the Barracuda Spam Firewall Vx destined for your email server. It also carries any general network traffic. **LAN1** traffic bypasses the Barracuda Web Filter Vx.
4. **LAN4** handles traffic coming directly from the Barracuda Security Suite Web Filter. The filtered traffic is forwarded to web clients (http or https) on the internal network.

## Getting Started

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The following instructions are an expanded version of the [Barracuda Security Suite Quick Start Guide](#) that is shipped with every Barracuda Security Suite:

- [Install the Barracuda Security Suite](#)
- [Manage the Barracuda Security Suite Virtual Appliances](#)
- [Initial Configuration of the Barracuda Firewall Vx](#)

## Install the Barracuda Security Suite

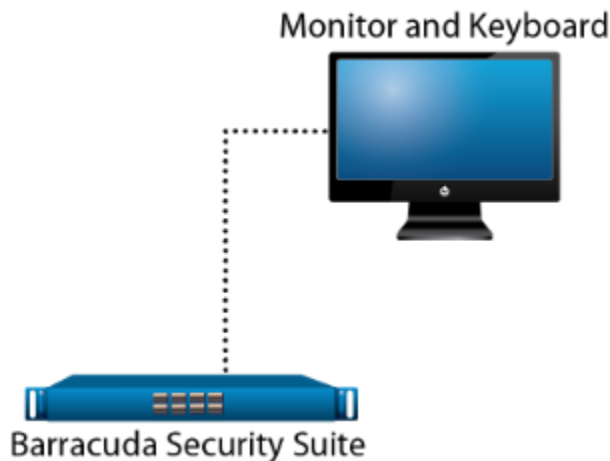
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### Verify Equipment

Verify you have the necessary equipment:

- Barracuda Security Suite
- AC power cord
- Ethernet cables
- Mounting rails and screws
- Monitor and keyboard (recommended)

### Initial Hardware Setup and Port Connections




1. Install the Barracuda Security Suite into a standard networking equipment rack.
2. Connect a power cord, monitor, and keyboard to the ports on the back of the Barracuda Security Suite.
3. Connect the WAN1 port to a DHCP-enabled link with access to the Internet. Connect the MGMT port and the LAN1 port or LAN4 port to the same network switch. The default address for the MGMT port is 172.16.31.254.
4. Connect a client PC to the switch connected to LAN1 or LAN4 and MGMT. The Barracuda Security Suite is pre-configured with a default DHCP service range of 172.16.31.100 to 172.16.31.150 (giving you more than 100 IPv4 addresses to work with). DHCP should automatically assign the client PC an IP address within this range.



The default management IP address (172.16.31.254) should only be modified as a troubleshooting step when other means of establishing access to Barracuda Technical Support have been exhausted.


To change the management IP address, first move the Ethernet cable from the WAN1 port to the MGMT port located on the back of the box. Now, from the console (accessible using a directly connected monitor and keyboard), assign an IP address

which is routable upstream and open the support tunnel for assistance.

 The client PC should be able to access the Internet (through the Barracuda Firewall Vx) at this time. It should also be able to manage the Barracuda Security Suite virtual appliances.

### **Login to the Barracuda Security Suite**


1. In a web browser, enter the Barracuda Security Suite management IP address and default HTTP port (for example, <http://172.16.31.254/>).
2. If you receive a certificate warning, ignore the warning and proceed. Use the default administrator login credentials:
  - **Password:** admin
  - **Username:** admin

 Do not change the default IP addresses (172.16.31.x), this could cause a loss of connectivity and prevent normal operation. If you are using a different internal sub-network please see [Integrate the Barracuda Security Suite into an Existing Network](#).

### **Activate the Barracuda Security Suite**

If your Barracuda Security Suite is connected to the Internet, it can automatically update its activation status. Complete the following steps to initiate the online activation process:

1. Go to the **BASIC > Dashboard** page and view the **Subscription Status** section to verify that your Energize Update subscription status is *Current*. If the Barracuda Security Suite can access the activation servers, your Energize Update and Instant Replacement subscriptions are should be active. If not, a warning is displayed at the top of every page and you must activate your subscription before continuing.
2. If the status of the Energize Updates subscription is *Not Activated*, complete the following steps:
  - a. Click the activation link at the top of the page and complete your subscription activation.

 The activation process takes approximately 30 minutes. During this time, it is important to leave the Barracuda Security Suite connected to the Internet and to not attempt to modify the configuration.

- b. Go back to the **Subscription Status** section of the **BASIC > Dashboard** page and click **Refresh** to automatically update the activation status of the Energize Updates subscription.
3. The Barracuda Security Suite should now be up and running. Traffic should be passing from the Internet through LAN1 or LAN4 to your internal clients. You can now begin to customize the configuration of the Barracuda Security Suite virtual appliances.

### **Update the Barracuda Security Suite Firmware**

Complete the following steps to check for and install updates to the Barracuda Security Suite firmware:

1. Go to the **ADVANCED > Firmware Update** page and verify that the currently installed version is the latest general release that is available. If you have the latest firmware version already installed, the **Download Now** button for the latest general release version is disabled.
2. If there is a new **Latest General Release** available:
  - a. Click **Download Now** and allow the update to finish downloading.
  - b. After the update is completely downloaded, click **Apply Now**. Do not reboot or turn off the Barracuda Security Suite while the firmware is updating. After the process completes, the Barracuda Security Suite automatically reboots and you are redirected to the page to log back into the system.

### **Change the Administrator Password**

To ensure the integrity of the Barracuda Security Suite, it is important to change the administrator password. Go to the **BASIC > Administration** page, and change the administrator password in the **Password Change** section.

### **Integrate the Barracuda Security Suite into an Existing Network**

If the sub-network does not need to be filtered by the Barracuda Web Filter Vx, assign an address within the sub-network to either the LAN2 or LAN3 interface to act as the default gateway for those clients.

If the sub-network needs to be filtered by the Barracuda Web Filter Vx, you need to complete the following configuration (the following example uses the 192.168.1.x IPv4 address space):

- On the Barracuda Firewall Vx, configure an IPv4 address on the LAN1 or LAN4 on the **Network -> IP Configuration** page. This address will be the default gateway address for the clients and the virtual interface that is added in the Barracuda Web Filter Vx (for example 192.168.1.1/24).
  - If the cable is physically connected to the LAN4 interface, configure IP on the LAN1 interface.
  - If the cable is physically connected to the LAN1 interface, configure IP on the LAN4 interface. This is required by the Software Defined Networking (SDN) configuration on the host virtual operating system.
- Create a virtual interface on the Barracuda Web Filter Vx by navigating to the **Advanced -> Advanced Networking** page and adding a virtual interface in the same 192.168.1.2/24 sub-network using the 192.168.1.1 default gateway. This virtual interface must be assigned to device **Bridge**, not **LAN**.

VIRTUAL INTERFACES				Help
IP ADDRESS	NETMASK	GATEWAY ADDRESS	DEVICE	
192 . 168 . 1 . 2	255 . 255 . 255 . 0	192 . 168 . 1 . 1	Bridge	<input type="button" value="Add"/>

Add a virtual interface for routing a VLAN or subnet to the Barracuda Web Filter.

You can confirm that traffic is flowing as designed by generating traffic from a client using the 192.168.1.x network. You can verify that the Barracuda Web Filter Vx can see the traffic from the client in both the Barracuda Web Filter Vx web log and the Barracuda Firewall Vx firewall log. You can also confirm that the Barracuda Web Filter Vx policies are being applied properly.

### Complete the Initial Configuration

Complete the following steps to finish the initial configuration of the Barracuda Security Suite. These steps include specifying a host name, a network domain, and and SMTP server.

- On the Barracuda Security Suite, navigate to the **BASIC -> IP Configuration** page to customize the host name and network domain displayed in alerts, notifications, and messages sent by the device. If you configure the two example values shown below, alerts, notifications, and messages will display the name `security.yourcompany.com`.
  - Default Hostname:** Displayed in alerts, notifications, and messages sent by the Barracuda Security Suite. Example text string: `security`
  - Default Domain** - Displayed in alerts, notifications, and messages sent by the Barracuda Security Suite. Example text string: `yourcompany.org`
- Navigate to the **BASIC -> Administration** page and specify the SMTP server used for sending system alerts from the Barracuda Security Suite.
  - SMTP Host** - Mail server to use for sending notifications.
  - SMTP Port** - SMTP port of the notification mail server. If no port number is specified, the Barracuda Security Suite uses the default port of **20025**.

## Manage the Barracuda Security Suite Virtual Appliances

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You can launch the UI for each of the virtual appliances by clicking on **Manage** in the Barracuda Security Suite user interface.

VIRTUAL MACHINES					
Name	Status	CPU	Memory		
Firewall	Running	26%	25%	<input type="button" value="Manage"/>	
Web Filter	Running	12%	5%	<input type="button" value="Manage"/>	
Spam Firewall	Running	5%	13%	<input type="button" value="Manage"/>	

Each of the virtual appliances has the same functionality as its respective physical appliance. See the Barracuda TechLibrary for detailed information on how to configure each of these virtual appliances:

- Barracuda Firewall: <https://techlib.barracuda.com/BFW>
- Barracuda Web Filter: <https://techlib.barracuda.com/BWF/Overview>
- Barracuda Spam Firewall: <https://techlib.barracuda.com/BSF/Overview>

The Barracuda Firewall Vx acts as the initial entry point for all traffic passing through the Barracuda Security Suite. As such, it is important to first

configure the policies on the Barracuda Firewall Vx, before proceeding to configure the Barracuda Web Filter Vx and the Barracuda Spam Firewall Vx.

**i** A DNS server is not configured on the Barracuda Firewall Vx by default. You can add the DNS server to the configuration from the Barracuda Firewall Vx user interface by navigating to the **Network > IP Configuration** page.

If you are routing Internet traffic through the Barracuda Web Filter Vx (port LAN4), note that the default configuration of the Web Filter is to allow all traffic to pass through to clients. You need to configure policies to begin to filter Internet traffic.

## Initial Configuration of the Barracuda Firewall Vx

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**i** Do not change the IP address for the management port of the Barracuda Firewall Vx. Please contact Barracuda technical support for more information.

**i** Please be aware of the following with regards to the Barracuda Firewall Vx and the Barracuda Security Suite:

- A DNS server is not configured on the Barracuda Firewall Vx by default. You can add the DNS server to the configuration from the Barracuda Firewall Vx user interface by navigating to the **Network > IP Configuration** page.

You need to add your internal subnetwork as a destination in *both the LAN-2-INTERNET and BYF-BSF-2-INTERNET* firewall rules:

1. In the Barracuda Firewall Vx user interface, navigate to **Firewall > Firewall Rules**.
2. Click the edit icon next to the LAN-2-INTERNET firewall rule (repeat this procedure later for the BYF-BSF-2-INTERNET).
3. Using the Destination module, add your internal subnetwork.

For example, you could add one of the internal IP address ranges (depending on your network):

- 10.0.0.0/8
- 172.16.0.0/12
- 192.168.0.0/16

**EDIT ACCESS RULE** Help

General **ADVANCED**

Action: **Allow**  **Deny**

Name: LAN-2-INTERNET

Description: Allows internet access from Trusted LAN for typical applications.

Connection: Default (SNAT)

Adjust Bandwidth: Internet

Bi-directional:  Yes  No

Disable:  Yes  No

IPS:  Yes  No

Application Control:  Yes  No

URL Filter:  Yes  No

Virus Protection:  Yes  No

SSL Inspection:  Yes  No

*DNAT (port forwarding) - Redirect traffic to a specific IP address.*

*Redirect to Service - Redirect traffic to a service on the Barracuda Firewall.*

*Bi-directional - Source and destination networks are interchangeable.*

*The interface must have bandwidth management enabled on the NETWORK > IP Configuration page for this policy to be applied.*

*URL Filter, Virus Protection and SSL Inspection depend on Application Control enabled. URL Filter and Virus Protection require a valid Web Security subscription.*

SOURCE	Help
Any	<input type="button" value="+"/>
Ref: Any	<input type="button" value="-"/>

NETWORK SERVICES	Help
Any	<input type="button" value="+"/>
Any	<input type="button" value="-"/>

DESTINATION	Help
10.0.0.0/8	<input type="button" value="+"/>
Ref: Any	<input type="button" value="-"/>

Network Objects  IP Address  Geo Loc.

## Maintenance

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In this Section



- [How to Shut Down and Restart the System](#)
- [How to Update and Revert Firmware](#)
- [Configuring Java Exception to Open Virtual Appliance Console - Microsoft Windows](#)
- [Configuring Java Exception to Open Virtual Appliance Console - Apple Mac OS X](#)


## How to Shut Down and Restart the System

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The **System Management** section on the **BASIC > Administration** page allows you to shutdown and restart the Barracuda Security Suite:

- **Shutdown** - Shuts down and powers OFF the Barracuda Security Suite.
- **Restart** - Restarts the Barracuda Security Suite.

You can also restart the Barracuda Security Suite by pressing **RESET** on the front panel.

 During a restart, the Barracuda Web Filter Vx and the Barracuda Spam Firewall Vx are also restarted. The Barracuda Firewall Vx is suspended and returns to its normal state once the Barracuda Security Suite is up and running again.

## How to Update and Revert Firmware

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 Always update the firmware on the Barracuda Security Suite appliance itself before updating the firmware of the virtual appliances.

On the **ADVANCED > Firmware Update** page, you can update or revert the firmware version of the Barracuda Security Suite.

Because the Barracuda Security Suite reboots during the firmware update, it is recommended that you update the firmware in a planned maintenance window.

### In this article:

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[Before You Update the Firmware](#)

[Firmware Update for the Barracuda Security Suite](#)

[Firmware Update for the Barracuda Security Suite Virtual Appliances](#)

### ***Before You Update the Firmware***

Before you update the firmware version of the Barracuda Security Suite, it is strongly recommended that you:

- Read all release notes that apply to versions that are more recent than the one currently running on your system. You can view the release notes on the **ADVANCED > Firmware Update** page. If you are performing an offline firmware update, the release notes appear after you upload the firmware update package with the steps in the [Offline Firmware Update](#) section below.

### ***Firmware Update for the Barracuda Security Suite***

To update the firmware for the Barracuda Security Suite:

1. Go to the **ADVANCED > Firmware Update** page.
2. Compare the installed version in the **Current Firmware Version** section to the latest general release version available in the **Firmware Download** section. If you have the latest firmware version already installed, the **Download Now** button for the latest general release version is disabled.
3. If there is a new **Latest General Release** available, click **Download Now** and allow the update to finish downloading.
4. After the update is completely downloaded, click **Apply Now**.


Do not reboot or turn off the Barracuda Load Security Suite while the firmware is updating. The process can take several minutes to complete, depending on your configuration. After the firmware finishes updating, the Barracuda Security Suite automatically reboots and you are redirected to the login screen.

## Firmware Update for the Barracuda Security Suite Virtual Appliances

For documentation on how to update the firmware for a Barracuda Security Suite virtual appliance, refer to the online help for the virtual appliance or refer to the documentation for the virtual appliance on the [Barracuda TechLibrary](#).

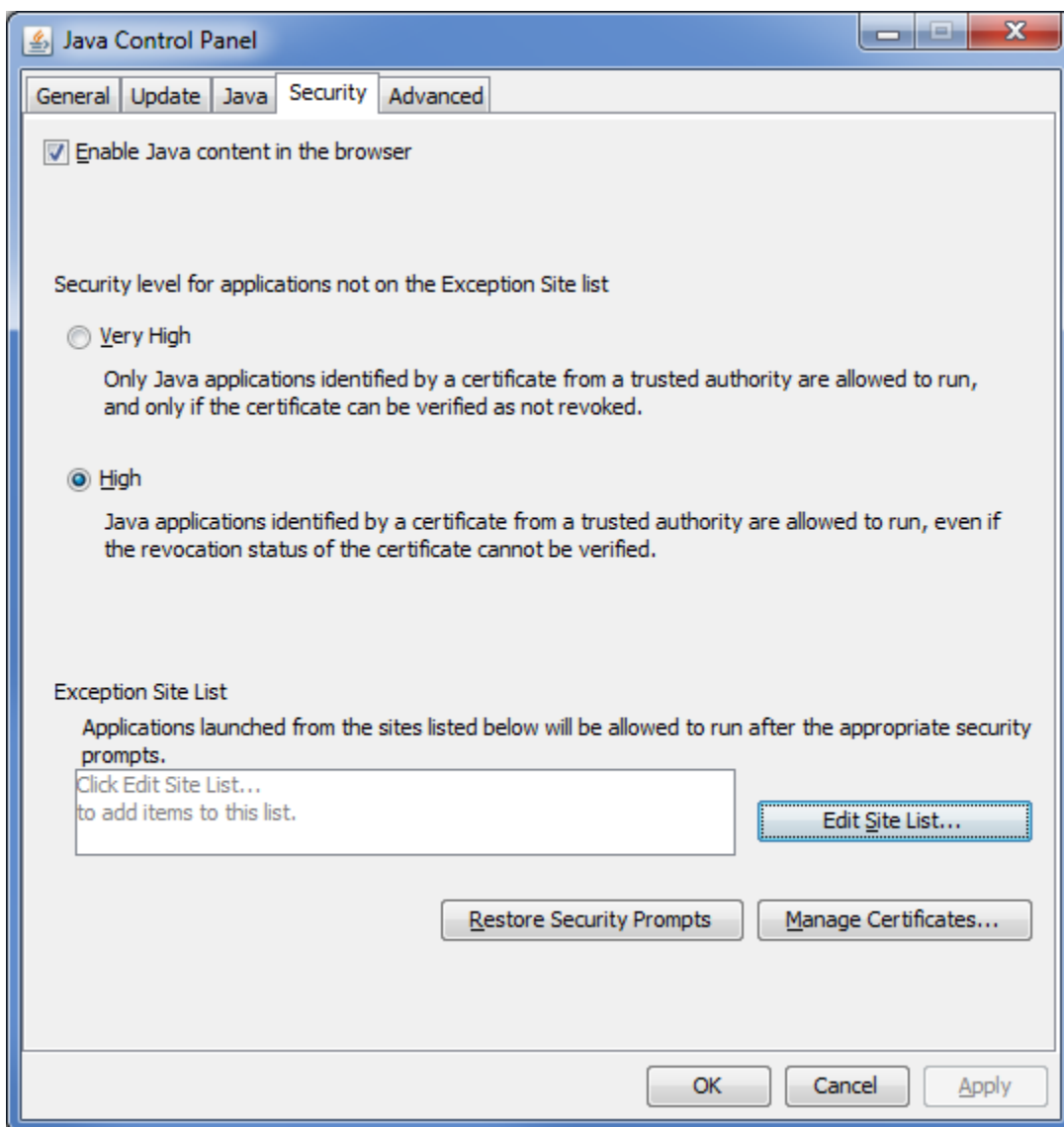
## Configuring Java Exception to Open Virtual Appliance Console - Microsoft Windows

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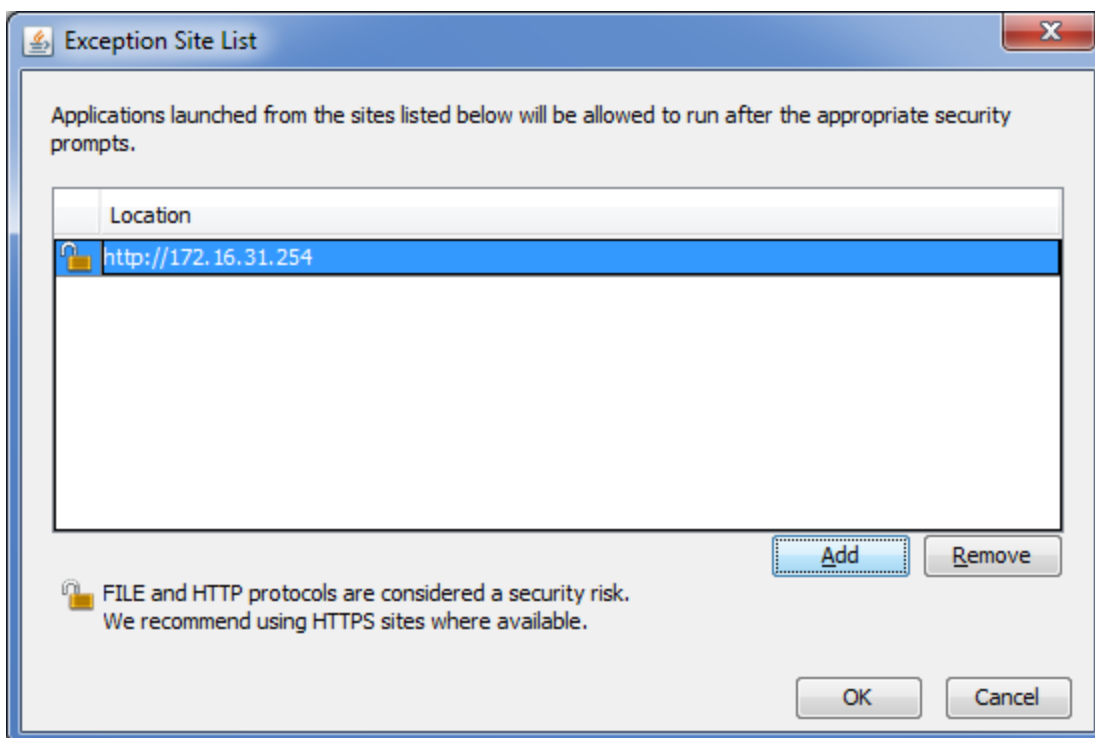
 This procedure is available on version 1.2 of the firmware.

Complete the following steps to configure a Java security exception to allow you to open a console window for the virtual appliances in the Barracuda Security Suite. The console window can give you access to some of the underlying functionality and settings of the virtual appliances.

1. Select **Windows -> All Programs**.
2. Select **Java -> Configure Java** to open the Java Control Panel.
3. Select the **Security** tab and click **Edit Site List**.



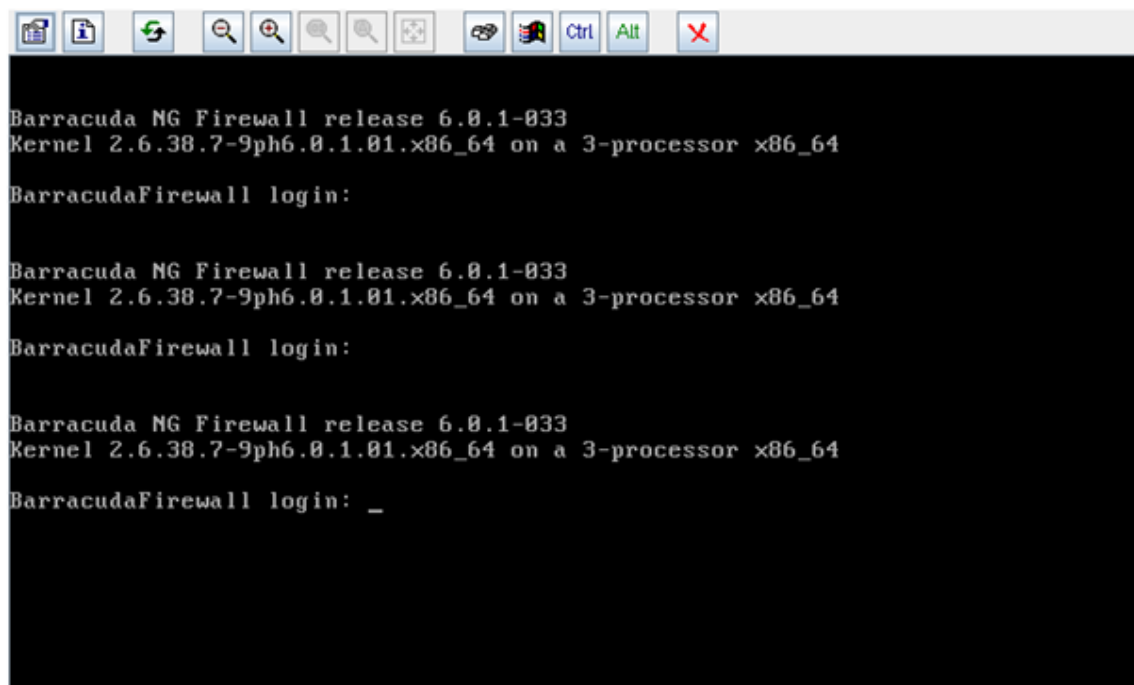
4. Click **Add** and enter the following URL: `http://172.16.31.254`



5. Click **OK** and then click **Continue** in the warning message window.

### ***Opening VNC in the Barracuda Security Suite User Interface***

From the Barracuda Security Suite UI, click the **VNC** button for the virtual appliance. A console window is opened.

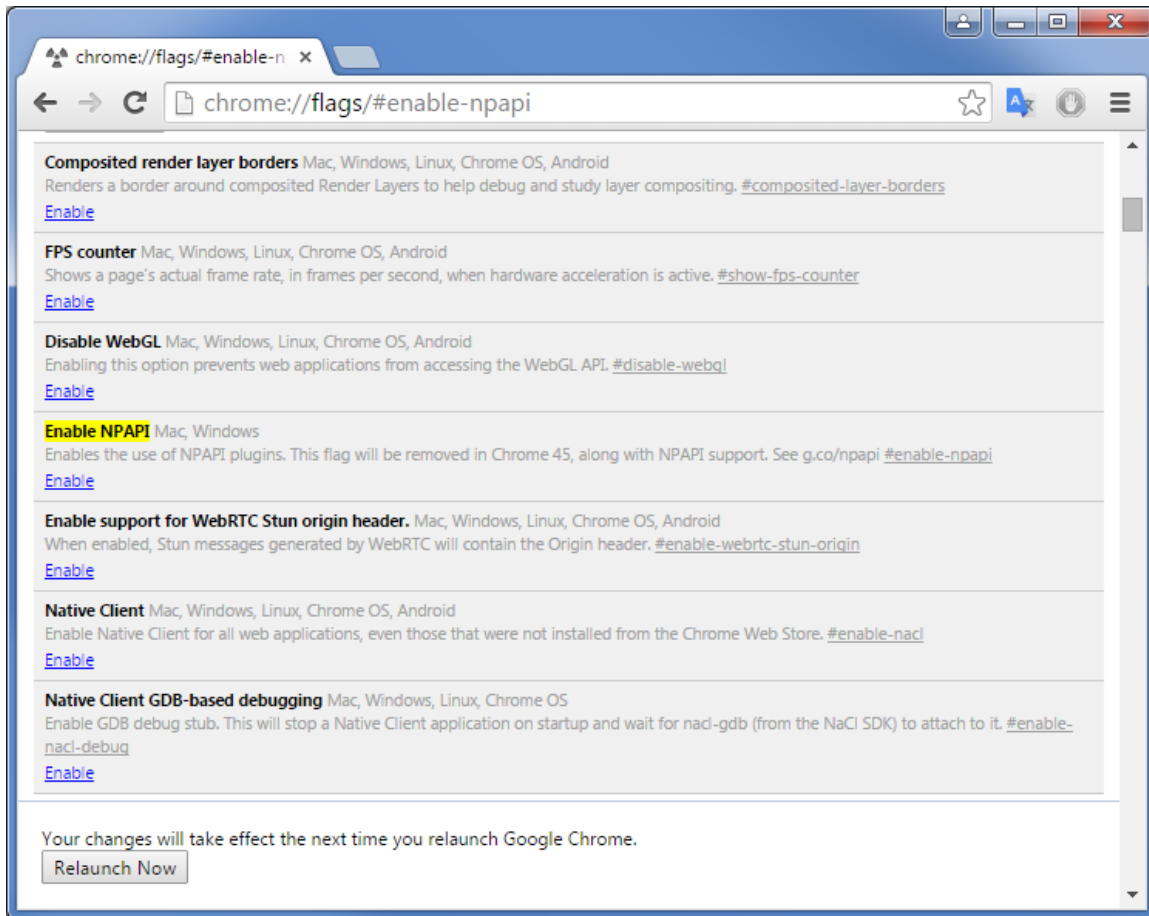


### ***Procedure for Google Chrome Browser.***


If you use the Google Chrome browser, you also need to complete to enable the NPAPI plugins:

1. Launch the Google Chrome browser.
2. In the address bar at the top of the screen, enter the following: `chrome://flags/#enable-npapi`

3. Under **Enable NPAPI**, click **Enable**.




4. Click **Relaunch Now**.

 For Google Chrome version 45 and later, you will need to use an alternate web browser to load content that requires a NPAPI plugin.

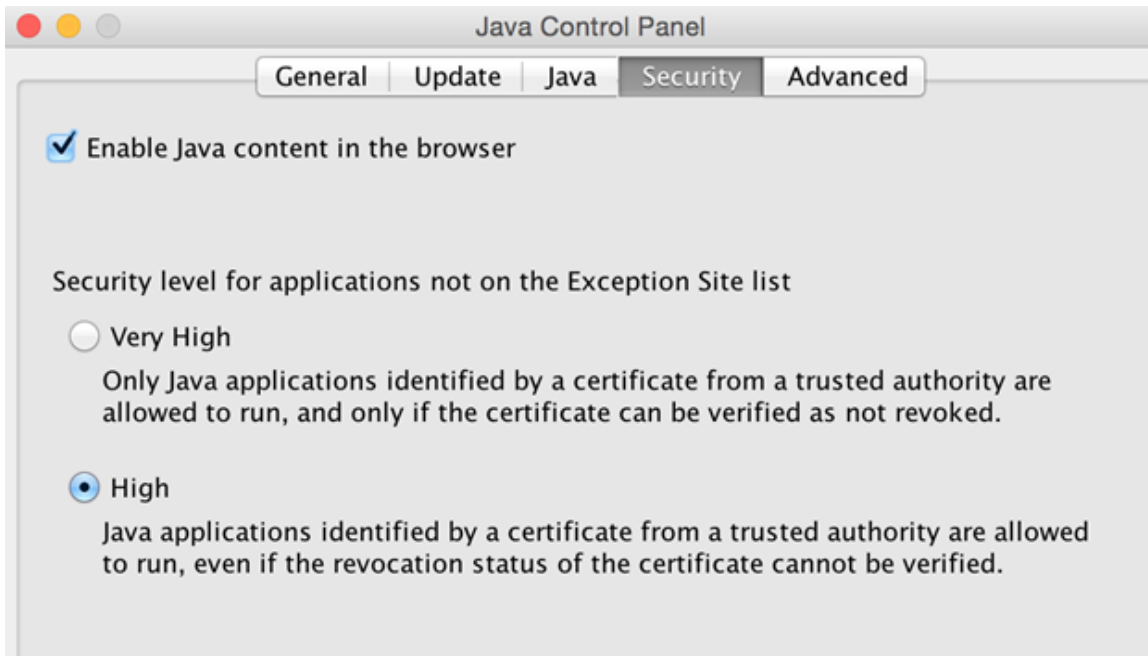
## Configuring Java Exception to Open Virtual Appliance Console - Apple Mac OS X

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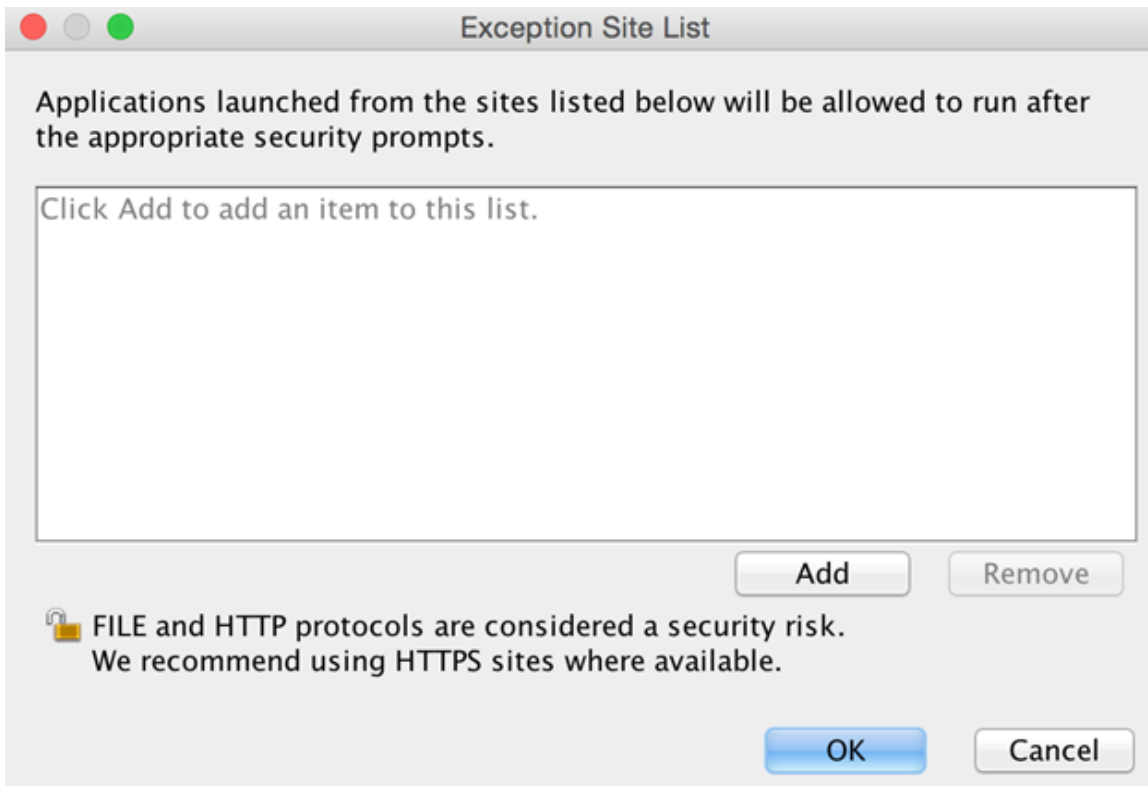
 This procedure is available on version 1.2 of the firmware.

Complete the following steps to configure a Java security exception to allow you to open a console window for the virtual appliances in the Barracuda Security Suite. The console window can give you access to some of the underlying functionality and settings for the virtual appliances.

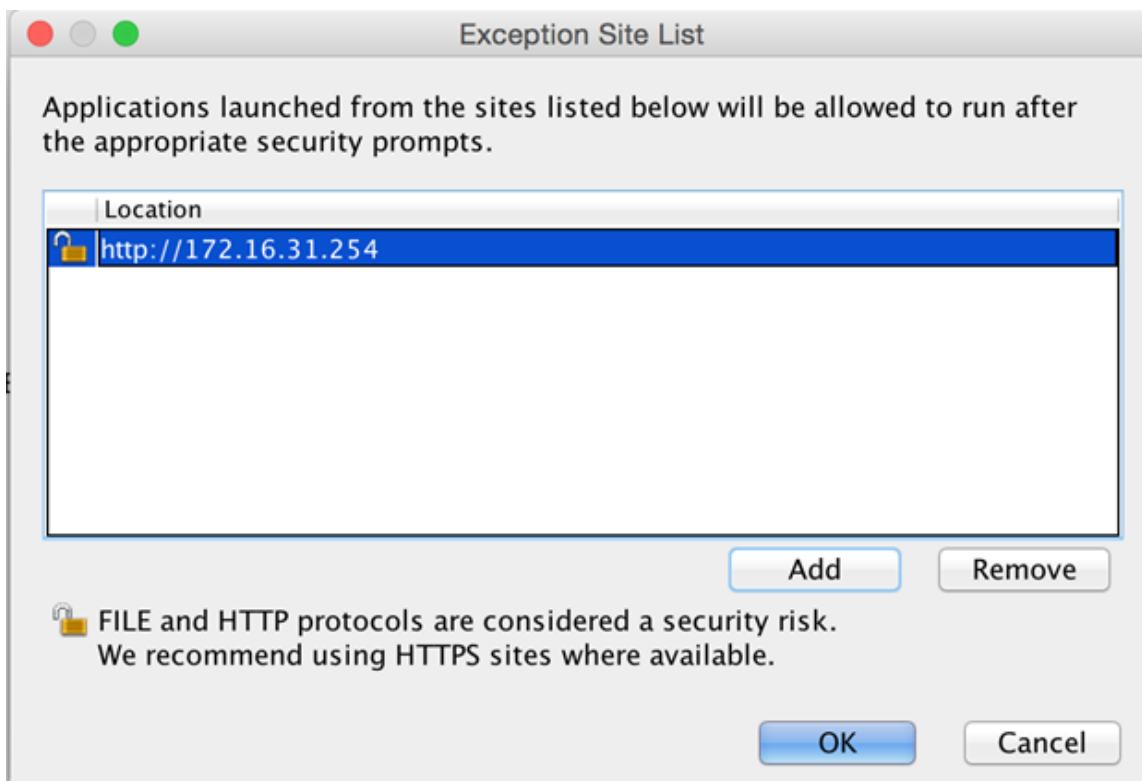
1. Open System Preferences.
2. Open the Java control panel and click the Security tab.



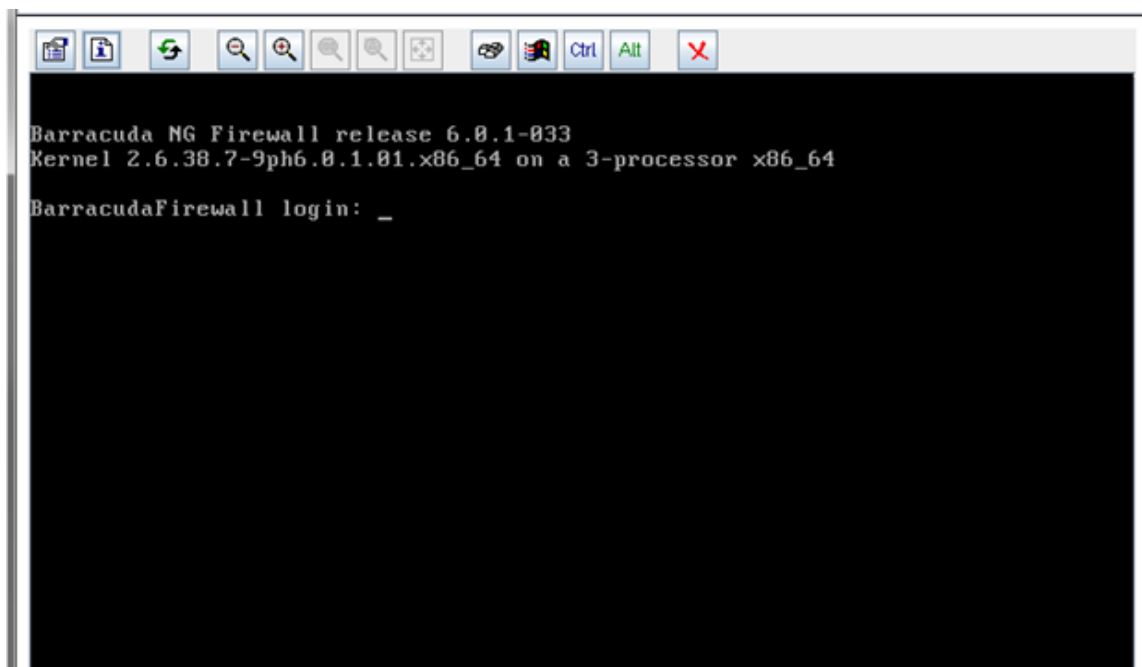
3. Set the security level to **High**.
4. Click **Edit Site List**.



5. Click **Add**.
6. Enter the the following URL in the text input box: <http://172.16.31.254>



7. Click **Continue** on the Security Warning popup window.
8. From the Barracuda Security Suite user interface, click on the VNC terminal icon for the Barracuda Firewall. When the warning message appears, click **Run**.
9. In the VNC terminal window, click enter to get a command prompt.

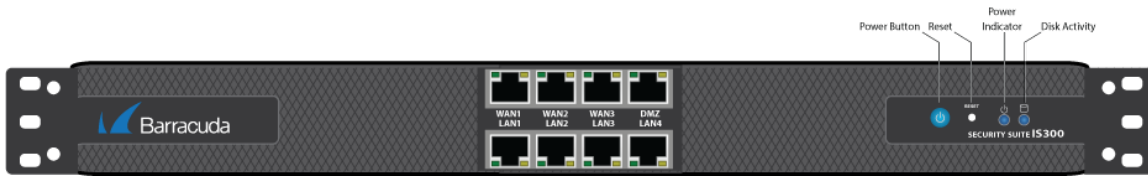


## Barracuda Security Suite Hardware Features

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Front Panel

Barracuda Security Suite 300



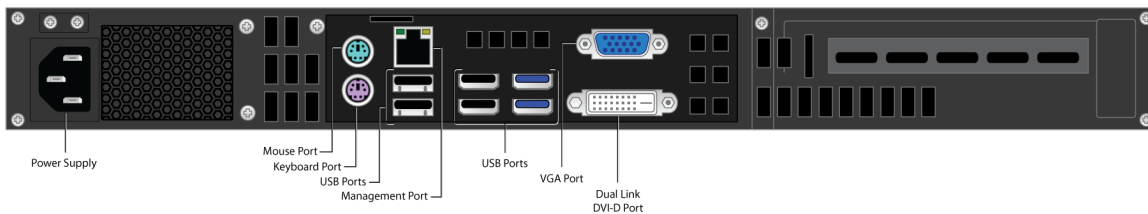
**Table 1. Barracuda Security Suite 300 front panel features.**

Label	Description
WAN1, WAN2, WAN3	Copper Ethernet ports for WAN connections.
DMZ	Copper Ethernet port for the DMZ.
LAN1, LAN2, LAN3, LAN4	Copper Ethernet ports for LAN connections.
Power Button	Turns the appliance on and off.
Reset Button	Resets the appliance.
Power Indicator	Displays a solid blue light while the appliance is turned on.
Disk Activity	Displays a blinking blue light during disk activity.

## Back Panel

### Barracuda Security Suite 300

**Table 2. Barracuda Security Suite 300 back panel features.**



Label	Description
DVI-D (Dual Link) Port	DVI-D connection for a monitor.
Keyboard Port	PS/2 connection for the keyboard.
Mouse Port	PS/2 connection for the mouse.
Management Port	Ethernet port that is used as the management port.
Power Supply	Socket for the AC power cord; standard power supply.
USB Ports	Connections for USB devices.
VGA Port	VGA connection for a monitor.

## Limited Warranty and License

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### Limited Warranty

Barracuda Networks, Inc., or the Barracuda Networks, Inc. subsidiary or authorized Distributor selling the Barracuda Networks product, if sale is not directly by Barracuda Networks, Inc., ("Barracuda Networks") warrants that commencing from the date of delivery to Customer (but in case of resale by a Barracuda Networks reseller, commencing not more than sixty (60) days after original shipment by Barracuda Networks, Inc.), and continuing for a period of one (1) year: (a) its products (excluding any software) will be free from material defects in materials and workmanship

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