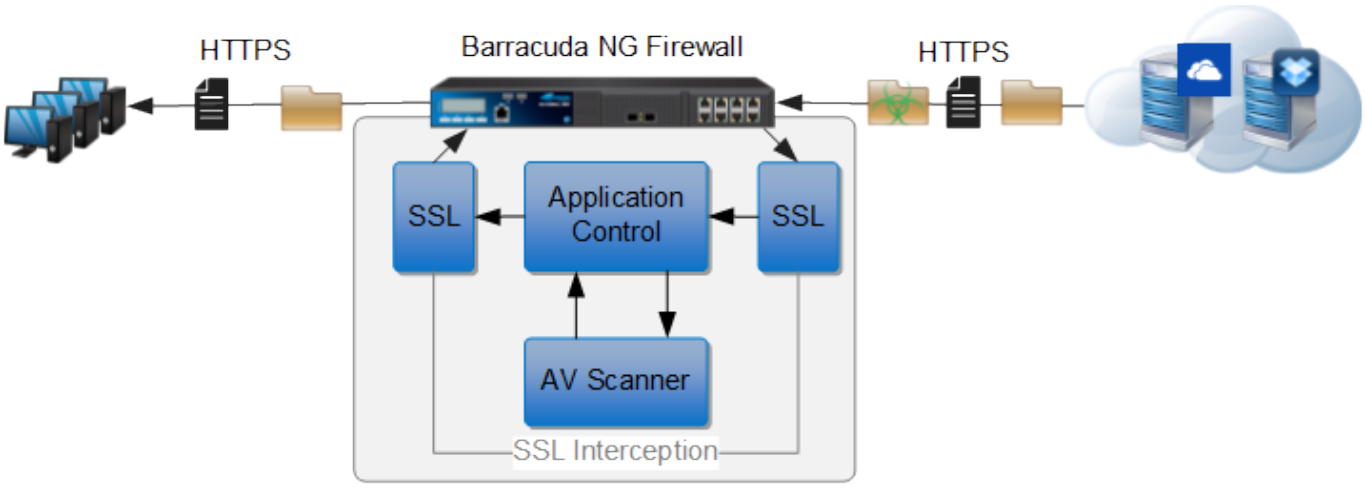
How to Configure Virus Scanning in the Firewall

https://campus.barracuda.com/doc/43847041/The Barracuda NG Firewall scans incoming traffic for malware on a per access rule basis when AV scanning in the firewall is enabled. If a user downloads a file containing malware, the Barracuda NG Firewall detects and discards the infected file and redirects the user to a warning page. You can combine virus scanning with SSL Interception to also scan SSL encrypted connections.



In this article:

Before You Begin

- Enable Application Control 2.0. For more information, see How to Enable Application Control 2.0.
- Create a Virus Scanner service. For more information, see Virus Scanner

Step 1. Enable the Virus Scanner Service

Ensure that the Virus Scanner service is enabled.

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > *your virtual server* > Assigned Services > Virus-Scanner > Service Properties**.
2. Click **Lock**.
3. From the **Enable Service** list, select **yes**.
4. Click **Send Changes** and **Activate**.

Step 2. Configure an AV Engine

Select and configure a Virus Scanner engine. You can use Avira and ClamAV either separately or together. Barracuda NG Firewall F100 and F101 can only use the Avira virus scanning engine.

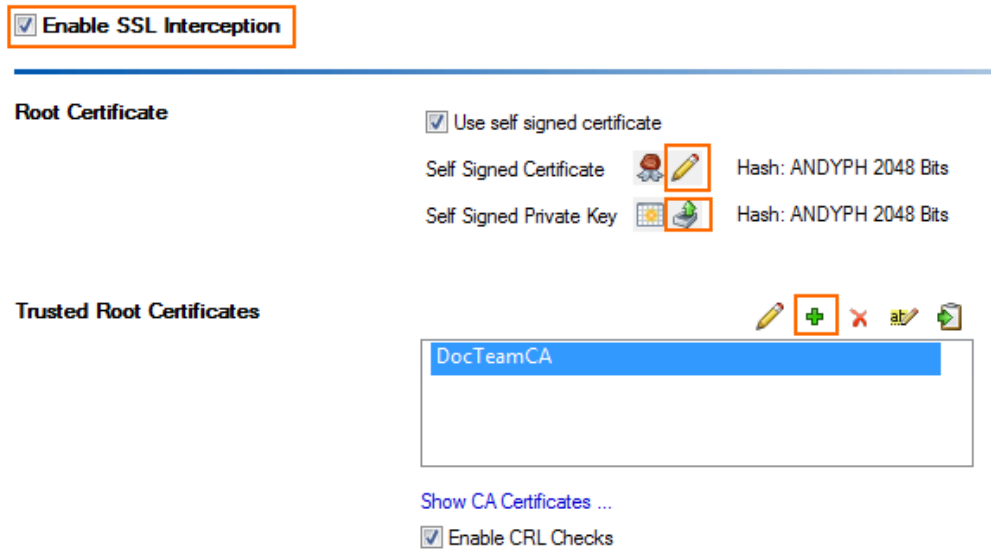
> Using both AV engines significantly increases CPU utilization and load.

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > *your virtual server* > Assigned Services > Virus-Scanner > Virus Scanner Settings**.
2. Click **Lock**.
3. Enable the virus scanner engines of your choice:
   - Enable the Avira AV engine by selecting **Yes** from the **Enable Avira Engine** list.
   - Enable the ClamAV engine by selecting **Yes** from the **Enable ClamAV** list.
4. Click **Send Changes** and **Activate**.

Step 3. Enable SSL Interception and AV Scanning in the Firewall

If you want to scan files that are transmitted over a SSL-encrypted connection, enable SSL Interception and virus scanning in the firewall.

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > *your virtual server* > Assigned Services > Firewall > Security Policy**.
2. Click **Lock**.
3. Select the **Enable SSL Interception** check box.
4. Upload your root CA certificate or create a self-signed **Root Certificate**.
5. (Optional) Click the plus sign (**+**) in the **Trusted Root Certificates** section to add additional root certificates.



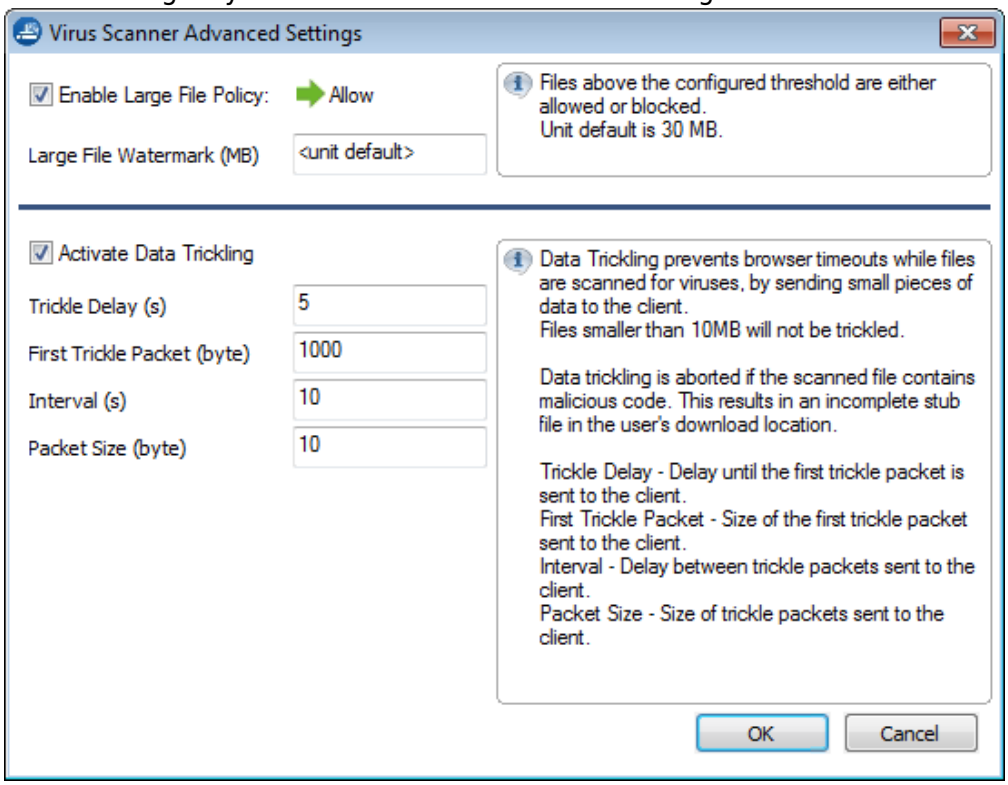
6. In the **Virus Scanner Configuration** section, select the **Enable Virus Scanning in the firewall** check box.
7. In the **Scanned MIME types** list, add the MIME types of the files that you want the AV scanner to scan.

The default <factory-default-mime-types> includes the most important MIME file types.

application/msword
application/msonenote
application/vnd.openxmlformats-officedocument.wordprocessingml.document
application/vnd.openxmlformats-officedocument.wordprocessingml.template
application/vnd.ms-word.document.macroEnabled.12
application/vnd.ms-word.template.macroEnabled.12
application/vnd.ms-excel
application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
application/vnd.openxmlformats-officedocument.spreadsheetml.template
application/vnd.ms-excel.sheet.macroEnabled.12
application/vnd.ms-excel.template.macroEnabled.12
application/vnd.ms-excel.addin.macroEnabled.12
application/vnd.ms-excel.sheet.binary.macroEnabled.12
application/vnd.ms-powerpoint
application/vnd.openxmlformats-officedocument.presentationml.presentation
application/vnd.openxmlformats-officedocument.presentationml.template
application/vnd.openxmlformats-officedocument.presentationml.slideshow
application/vnd.ms-powerpoint.addin.macroEnabled.12
application/vnd.ms-powerpoint.presentation.macroEnabled.12
application/vnd.ms-powerpoint.slideshow.macroEnabled.12

application/pdf
application/x-pdf
application/vnd.pdf
application/vnd.android.package-archive

8. (optional) Change the **Action if Virus Scanner is unavailable**.
9. (optional) Click on **Advanced**:
   - **Large File Policy** – The large file policy is set to a sensible value for your appliance. The maximum value is 4096MB.
   - **Data Trickling Settings** – Change how fast and how much data is transmitted. Change these settings if your browser times out while waiting for the file to be scanned.



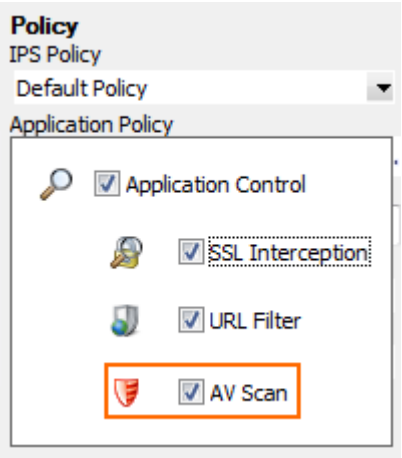
10. Click **Send Changes** and **Activate**.

Step 4. Enable the AV Scanner in the Firewall Rules

You can enable AV scanning for every Pass firewall rule.

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > *your virtual server* > Assigned Services > Firewall > Forwarding Rules**.
2. Click **Lock**.
3. Open the settings for the firewall rule that you want to enable AV scanning for.
4. Click the **Application Policy** link.
5. Select the **Application Control** and **AV Scan** check boxes.

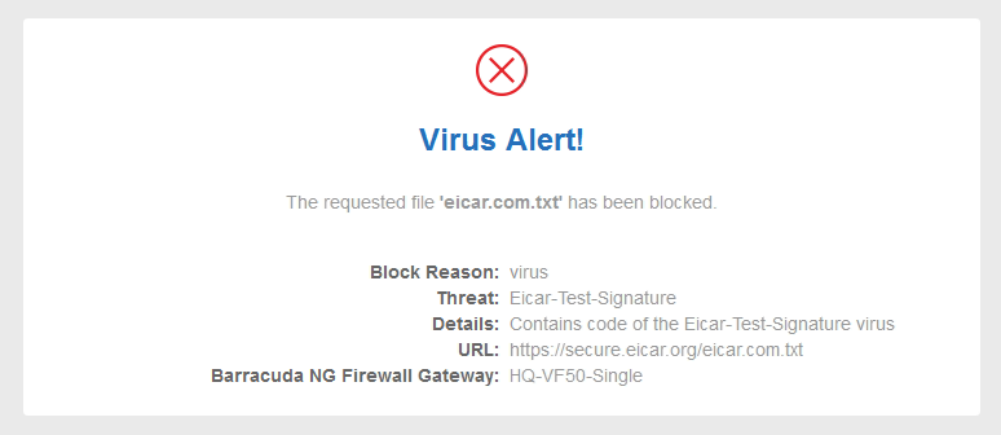
6. If you want to scan SSL encrypted traffic, select the **SSL Interception** check box.



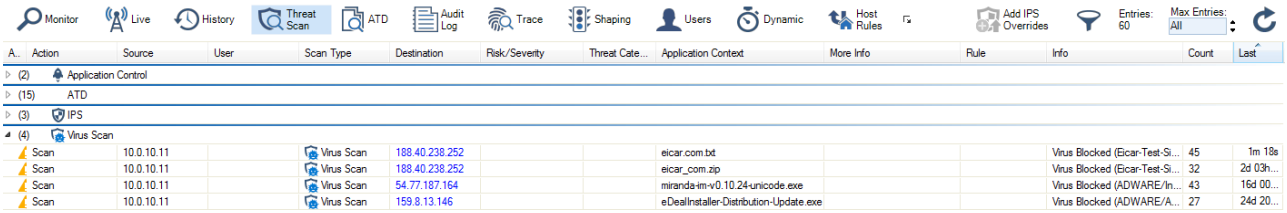
7. Click **OK**.
8. Click **Send Changes** and **Activate**.

Monitoring and Testing

- Test the AV scan setup by downloading EICAR test files from http://www.eicar.com. The block page is customizable. For more information, see How to Configure Custom Block Pages.



- To monitor detected viruses and malware, go to the **FIREWALL > Threat Scan** page.



Next Steps

To combine ATD with virus scanning, see Advanced Threat Detection (ATD).

Figures

1. AppControl_SSL_AVScanning.png
2. avScanning03.png
3. FW_virus_scanning_advanced.png
4. avScanning04.png
5. virus_scanning_block_page_eicar.png
6. avScanning02.png