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## How to Configure File Content Filtering in the Firewall

<https://campus.barracuda.com/doc/79462975/>

To enforce a file content policy in the firewall, create an access rule to match your HTTP, HTTPS, FTP, SMTP, or SMTPS traffic. Enable Application Control and, optionally, SSL Inspection. You must also enable File Content Scan to let the CloudGen Firewall scan files for criteria defined in the file content policy. You can combine File Content Scan with URL Filter and User Agent policies. The policy objects are configured as a part of the application rule.

### Before You Begin

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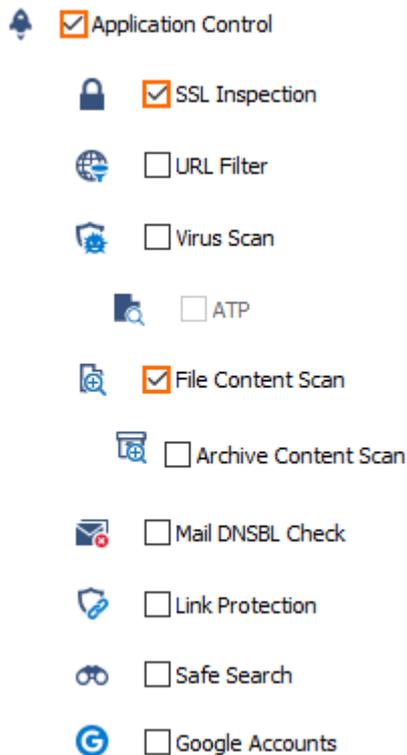
- Create File Content Policies. For more information, see [How to Create File Content Policies](#).
- Verify that the **Firewall Feature Level** is 7.2 or higher.

### Step 1. Enable File Content Scanning in a PASS Access Rule

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Enable Application Control, File Content Scan, and, optionally, SSL Inspection for the access rule handling HTTP, HTTPS, FTP, SMTP, and/or SMTPS traffic.

1. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall > Forwarding Rules**.
2. Click **Lock**.
3. Double-click to open the access rule you want to apply the file content policy for.
4. Click on the **Application Policy** link and select:
  - **Application Control** - Required.
  - **SSL Inspection** - Optional.
  - **File Content Scan** - Required.



5. If configured, select a policy from the **SSL Inspection Policy** drop-down list. For more information, see [SSL Inspection in the Firewall](#).
6. Click **OK**.
7. Click **Send Changes** and **Activate**.

## Step 2. Create an Application Rule Using File Content Filter Objects

1. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall > Forwarding Rules**.
2. In the left menu, click **Application Rules**.
3. Click **Lock**.
4. Create a PASS application rule. For more information, see [How to Create an Application Rule](#).
  - **Source** - Select the same source used in the matching access rule.
  - **Application** - Select **Any** to use only policy filtering. Otherwise, select an application object from the drop-down list to combine Application Control and File Content filtering.
  - **Destination** - Select the same destination used in the matching access rule.
5. Click on the **Policies** link.

**Policies**

URL Filter, File Content, User Agent  Change SD-WAN Settings  
 <none> from access rule ...

Schedule  Change QoS Band (Fwd) URL Filter Matching  
 Always Any

from access rule Protocol  
 Any

QoS Band (Reply)  
 from access rule

6. Click **File Content**.

Url Filter	<none>
<b>File Content</b>	<none>
User Agent	<none>

7. Click on the **File Content Policy** in the list. For more information, see [How to Create File Content Policies](#).

<Create Explicit File Content Policy>	Set an explicit...
None	No File Conte...
BlockEXE	BlockEXE
BlockPDFs	BlockPDFs

8. Click **OK**.

**Policies**

URL Filter, File Content, User Agent  Change SD-WAN Settings  
 <none>, BlockPDFs, <none> from access rule ...

Schedule  Change QoS Band (Fwd) URL Filter Matching  
 Always Any

from access rule Protocol  
 Any

QoS Band (Reply)

OK Cancel

9. Click **Send Changes** and **Activate**.

## Monitoring File Content Filtering in the Firewall

### Firewall Live View

Go to **FIREWALL > History View** and check the **Info** column for connections that were blocked due to the detected content.

Cache Selection		Access, Fail, Rule Block, Packet Drop				Traffic Selection				Forward, Local In, Local Out, IPv4, IPv6		Destination	
AID	IP...	Port	Source	Int...	User	Destination	O...	A...	Application Context	C...	Last	Rule	Info
	B-50	TCP	29391	10.0.10.11	eth0	172.16.0.13	eth3		PDF/SSLVPN.pdf	2	44m 12s	LAN-2-FTPServers	Detected Content not allowed by policy
	B-49	TCP	52721	10.0.10.11	eth0	172.16.0.13	eth3		PDF/Test.pdf	2	44m 12s	LAN-2-FTPServers	Detected Content not allowed by policy
	304	TCP	29391	10.0.10.11	eth0	172.16.0.13			SSLVPN.pdf	1	44m 12s	<App>:FileContent-from-FTPSRV	Application Detect
	303	TCP	52721	10.0.10.11	eth0	172.16.0.13			Test.pdf	1	44m 12s	<App>:FileContent-from-FTPSRV	Application Detect
	37	TCP	21	10.0.10.11	eth0	172.16.0.13		mzoller			33	<App>:FileContent-from-FTPSRV	Application Detect

### Firewall Monitor

Check the **FILE CONTENT** element on the **FIREWALL > Monitor** page to see a summary. You can filter and drill down based on source, time, and the associated action (allow, blocked, ...).

**FILE CONTENT**

Web Files		2	<input type="text"/>
HTML		2	<input type="text"/>
XML		0	<input type="text"/>
Picture Files		1	<input type="text"/>
GIF		1	<input type="text"/>
PNG		0	<input type="text"/>
JPEG		0	<input type="text"/>
Office Document Files		0	<input type="text"/>
PDF		0	<input type="text"/>
Executeables		0	<input type="text"/>
EXE		0	<input type="text"/>
Compressed and Uncompr...		0	<input type="text"/>
DEB		0	<input type="text"/>
BZIP2		0	<input type="text"/>
CAB		0	<input type="text"/>

## Figures

1. file\_content\_fw\_01.png
2. FC\_02.png
3. FC\_03.png
4. FC\_04.png
5. FC\_05.png
6. FC\_06.png
7. FC\_07.png

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