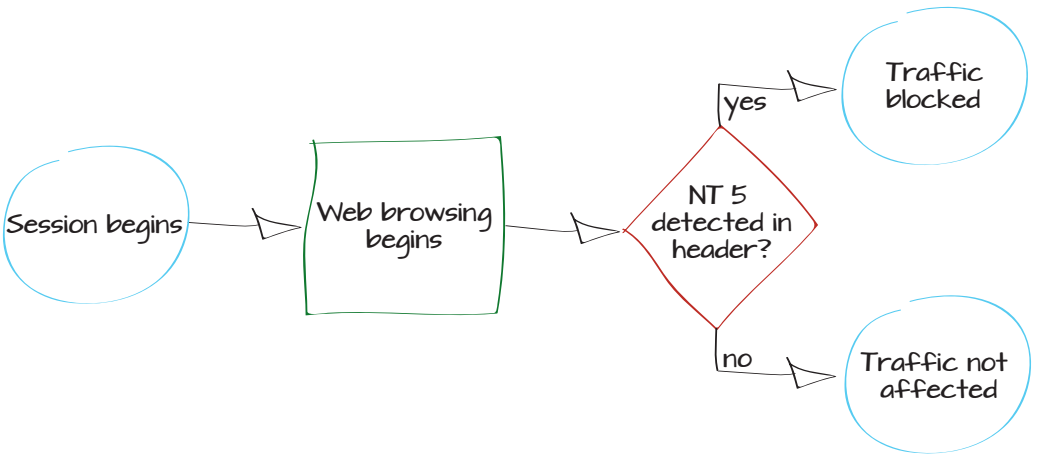
Using a custom signature to block web traffic from Windows XP

When a computer's operating system lacks vendor support, it becomes a threat to the network because newly discovered exploits will not be patched. Using the FortiGate application control feature, you can choose to restrict these computers from accessing external resources.

This recipe shows how to use application control to block web traffic from PCs running on Windows operating systems using NT 5, including Windows XP and Windows Server 2003.

1. Creating a custom application control signature
2. Creating an application control sensor
3. Adding the sensor to the outbound traffic security policy
4. Results



Creating a custom application control signature

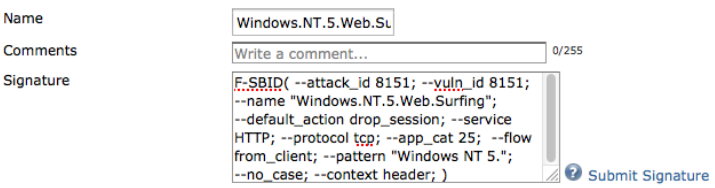
Go to **Security Profiles > Application Control > Application List** and select **Create New**.

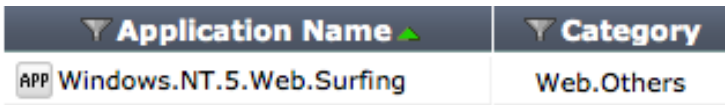
Use the following text to create the signature:

Make sure to remove all hard line breaks from the signature. To ensure all breaks have been removed, click and drag the bottom right corner of the signature box until the text appears in a single line.

```
F-SBID( --attack_id 8151;
--vuln_id 8151; --name "Windows.
NT.5.Web.Surfing"; --default_
action drop_session; --service
HTTP; --protocol tcp; --app_
cat 25;  --flow from_client;
--pattern "Windows NT 5."; --no_
case; --context header; )
```

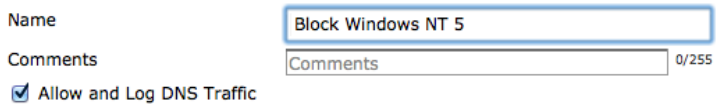
The signature will appear at the top of the application list and be listed in the **Web.Others** category.





Creating an application sensor

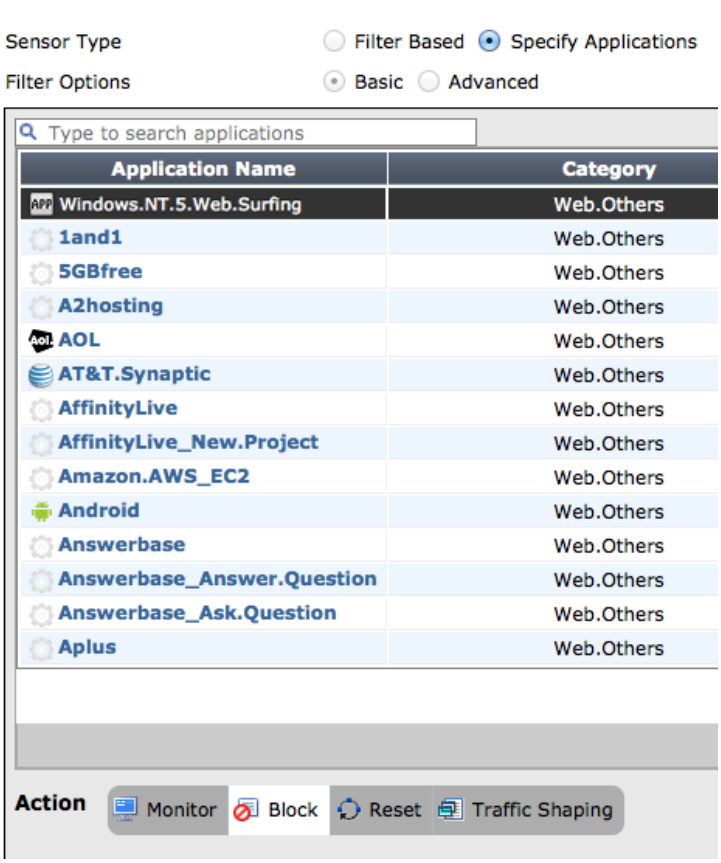
Go to **Security Profiles > Application Control > Application Sensors**. Select the plus icon in the upper right corner of the window to create a new sensor.



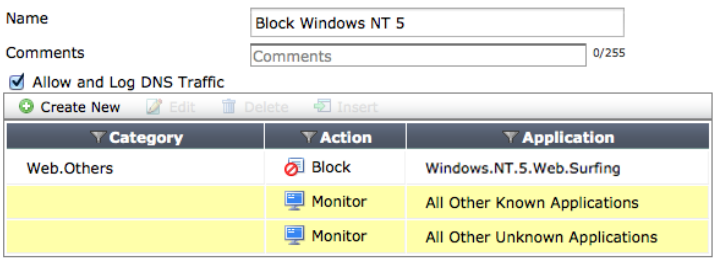
After selecting **OK**, select **Create New** to add the new signature.

In order to locate the correct signature, select **Show more...** under **Category**, then select only **Web.Others**.

Set **Sensor Type** to **Specify Applications**. The new signature will appear at the top of the list. Select the signature, then set **Action** to **Block**.



The signature will now appear as part of the sensor.

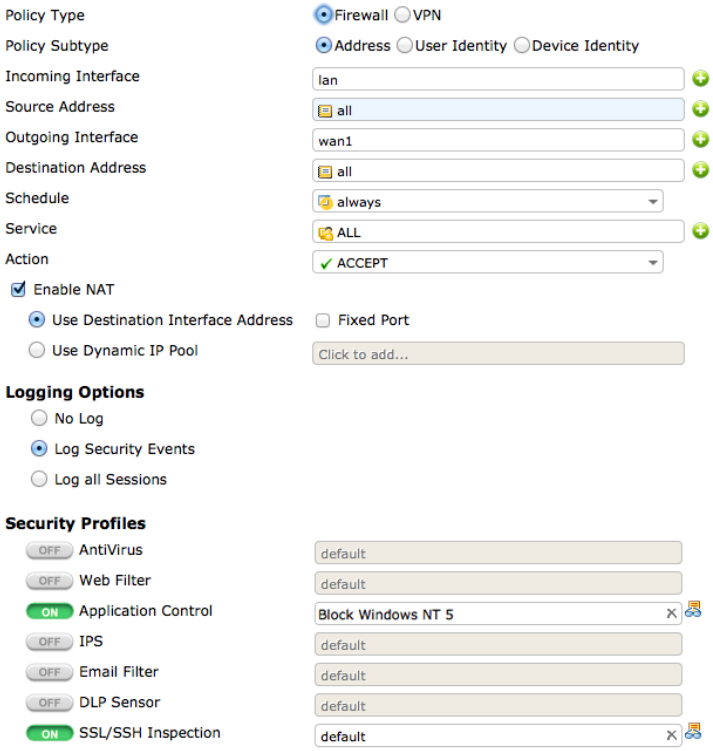


Adding the sensor to the outbound traffic security policy

Go to **Policy > Policy > Policy** and edit the policy controlling your outbound traffic.

Under **Security Policies**, enable **Application Control** and set it to use the new sensor. In order to also block HTTPS traffic, enable **SSL/SSH Inspection** and set it to use the **default** sensor.

Enabling SSL/SSH Inspection will cause web browers to experience a certificate error. To avoid this, see "Preventing security certificate warnings when using SSL inspection" on page 271.



Results

When a PC running one of the affected operating systems attempts to connect to the Internet using a browser, the connection will fail. This includes Windows virtual machines.

PCs running on other operating systems, including later versions of Windows, will not be affected.

Go to **Log & Report > Traffic Log > Forward Traffic** to see logs of the blocked traffic.

In the example, the blocked computer (IP address 192.168.100.112) was running Windows XP.

#	Policy ID	Date/Time	Source	Destination	Security Event	Security Ac
1	1	10:32:25	192.168.100.112	184.150.152.177 (img.youtube.com)	app-ctrl	
2	1	10:30:27	192.168.100.111	108.160.165.12 (www.dropbox.com)	app-ctrl	
3	1	08:43:27	192.168.100.112	173.194.64.100 (s.ytimg.com)	app-ctrl	
4	1	10:17:33	192.168.100.112	213.180.204.25 (mail.yandex.com)	app-ctrl	
5	1	08:59:14	192.168.100.112	208.91.113.66 (support.fortinet.com)	app-ctrl	
6	1	08:58:36	192.168.100.112	31.13.69.128 (www.facebook.com)	app-ctrl	
7	1	08:58:16	192.168.100.112	208.91.113.66 (support.fortinet.com)	app-ctrl	
8	1	08:57:00	192.168.100.112	87.250.250.25 (mail.yandex.com)	app-ctrl	
9	1	08:54:03	192.168.100.112	31.13.69.128 (www.facebook.com)	app-ctrl	
10	1	08:53:09	192.168.100.112	31.13.69.128 (www.facebook.com)	app-ctrl	
11	1	08:52:42	192.168.100.112	208.91.113.66 (support.fortinet.com)	app-ctrl	
12	1	08:52:28	192.168.100.112	208.91.113.66 (support.fortinet.com)	app-ctrl	
13	1	08:50:00	192.168.100.112	173.194.64.100 (s.ytimg.com)	app-ctrl	
14	1	08:50:00	192.168.100.112	173.194.64.100 (s.ytimg.com)	app-ctrl	
15	1	08:48:35	192.168.100.112	23.41.245.231 (ocsp.entrust.net)	app-ctrl	
16	1	08:44:42	192.168.100.112	173.194.64.100 (s.ytimg.com)	app-ctrl	
17	1	08:43:27	192.168.100.112	173.194.64.100 (s.ytimg.com)	app-ctrl	

This recipe will only block web traffic from computers running the affected operating systems. If you wish to block these computers from being on the network entirely, further action will be necessary. However, the logs generated by this recipe can be used to identify the computers you wish to block.