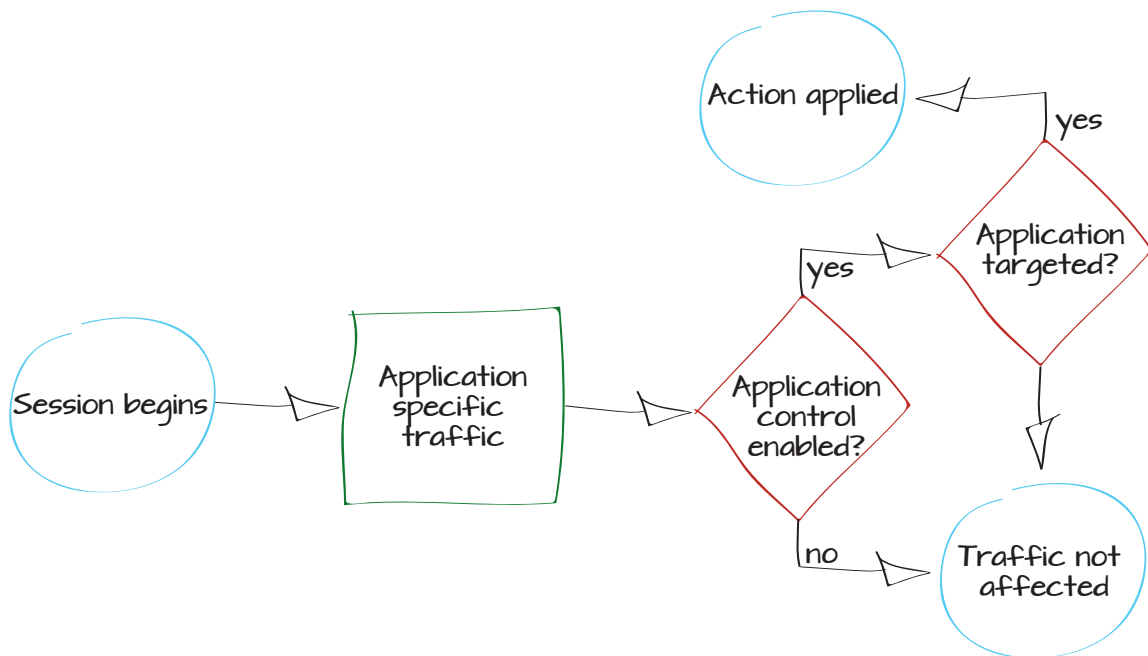


Controlling network access using application control

This example uses application control to monitor traffic and determine what applications are contributing to high bandwidth usage or distracting employees. After this is determined, a different application sensor is used to block those applications from having network access.

1. Creating an application sensor to monitor network traffic
2. Adding the monitoring sensor to a security policy
3. Reviewing the application control monitor
4. Creating an application sensor to block applications
5. Adding the blocking sensor to a security policy
6. Results



Creating an application control sensor to monitor traffic

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 list for monitoring application traffic.

Select **Create New** to add a new application filter. Leave all **Filter Options** selected.

Ensure that you set the **Action** to **Monitor**. At this stage in the process, you are monitoring the traffic to locate any problems that may be occurring, rather than blocking applications.

Name: monitor_application_traffic
Comments: 0/255

Sensor Type: Filter Based Specify Applications

Filter Options

Category	Popularity	Technology	Risk
<input checked="" type="checkbox"/> Botnet	<input checked="" type="checkbox"/> Popularity	<input checked="" type="checkbox"/> Browser-Based	<input checked="" type="checkbox"/> Botnet
<input checked="" type="checkbox"/> Game	<input checked="" type="checkbox"/> Excessive-Bandwidth	<input checked="" type="checkbox"/> Client-Server	<input checked="" type="checkbox"/> Excessive-Bandwidth
<input checked="" type="checkbox"/> Media	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Network-Protocol	
<input checked="" type="checkbox"/> Proxy		<input checked="" type="checkbox"/> Peer-to-Peer	
<input checked="" type="checkbox"/> Storage.Backup			
<input checked="" type="checkbox"/> eMail			
<input checked="" type="checkbox"/> General.Interest			
<input checked="" type="checkbox"/> IM			
<input checked="" type="checkbox"/> File.Sharing			
<input checked="" type="checkbox"/> P2P			
<input checked="" type="checkbox"/> Social.Networking			
<input checked="" type="checkbox"/> Remote.Access			
<input checked="" type="checkbox"/> Update			
<input checked="" type="checkbox"/> VoIP			

Application Name	Category	Technology	Popularity	Risk
012mail	eMail	Browser-Based	☆☆☆☆	
0zz0	File.Sharing	Browser-Based	☆☆☆☆	Excessive-Bandwidth
1und1.Mail	eMail	Browser-Based	☆☆☆☆	Excessive-Bandwidth
2Shared.Browse.Upload.File	File.Sharing	Browser-Based	☆☆☆☆	Excessive-Bandwidth
2Shared.Search.Download.File	File.Sharing	Browser-Based	☆☆☆☆	Excessive-Bandwidth
2ch	Social.Networking	Browser-Based	☆☆☆☆	
2ch_Post	Social.Networking	Browser-Based	☆☆☆☆	
3PC	Network.Service	Network-Protocol	☆☆☆☆	
4shared	File.Sharing	Browser-Based	☆☆☆☆	Excessive-Bandwidth
6cn	Media	Browser-Based	☆☆☆☆	Excessive-Bandwidth
9PFS	Network.Service	Network-Protocol	☆☆☆☆	
9PTV	P2P	Peer-to-Peer	☆☆☆☆	Excessive-Bandwidth
24lm	IM	Client-Server	☆☆☆☆	Excessive-Bandwidth
51.Com	Social.Networking	Browser-Based	☆☆☆☆	

Action: Monitor Block Reset Traffic Shaping


Adding the monitoring sensor to a security policy


Go to **Policy > Policy > Policy**.


Edit the security policy that allows internal users to access the Internet. Under **Security Profiles**, enable **Application Control** and set it to use the new filter.


Policy Type Firewall VPN


Policy Subtype Address User Identity Device Identity


Incoming Interface 


Source Address 

Outgoing Interface 

Destination Address 

Schedule 

Service 

Action 

Enable NAT

- Use Destination Interface Address
- Use Dynamic IP Pool
- Use Central NAT Table

Fixed Port


Logging Options

- No Log
- Log Security Events
- Log all Sessions

Security Profiles

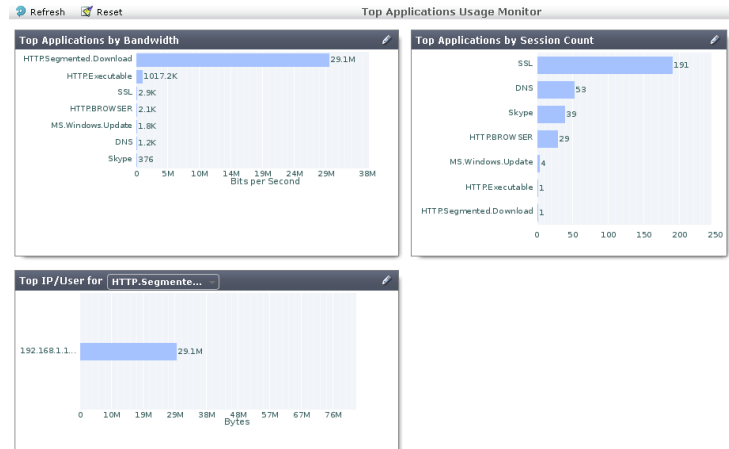
AntiVirus

Web Filter

Application Control 

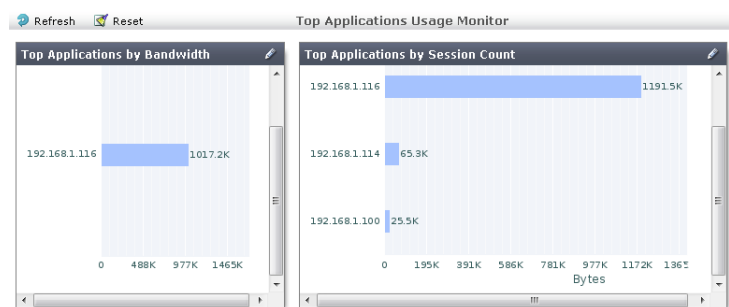
Reviewing the application control monitor

Go to **Security Profiles > Monitor > Application Monitor** to see the results found by the application sensor.



Select a bar to see further details on the usage statistics.

In the example, you can see an occurrence of an HTTP segmented download, which typically occurs during Peer-to-Peer (P2P) downloads. To avoid this from occurring in the future, P2P applications must be blocked.



Creating an application sensor to block applications

Go to **Security Profiles > Application Control > Application Sensors** and create a new sensor list for blocking application traffic.

Name:

Comments: 0/255

Select **Create New** to add a new application filter.

In the **Category** list, select the application categories you wish to block. As well as blocking P2P, other types of applications can be selected that are known to distract employees.

Ensure that you set the **Action** to **Block**.

Adding the blocking sensor to a security policy

Go to **Policy > Policy > Policy**.

Edit the firewall policy allowing internal users to access the Internet. Under **Security Profiles**, enable **Application Control** and set it to use the new filter.

Sensor Type Filter Based Specify Applications

[Filter Options]

Category	Popularity	Technology	Risk
<input type="checkbox"/> Botnet	<input checked="" type="checkbox"/> ☆☆☆☆☆	<input checked="" type="checkbox"/> Browser-Based	<input checked="" type="checkbox"/> Botnet
<input type="checkbox"/> Game	<input checked="" type="checkbox"/> ☆☆☆☆☆	<input checked="" type="checkbox"/> Client-Server	<input checked="" type="checkbox"/> Excessive-Bandwidth
<input checked="" type="checkbox"/> Media	<input checked="" type="checkbox"/> ☆☆☆☆☆	<input checked="" type="checkbox"/> Network-Protocol	<input checked="" type="checkbox"/> None
<input type="checkbox"/> Proxy	<input checked="" type="checkbox"/> ☆☆☆☆☆	<input checked="" type="checkbox"/> Peer-to-Peer	
<input type="checkbox"/> Storage.Backup	<input checked="" type="checkbox"/> ☆☆☆☆☆		
<input type="checkbox"/> eMail			
<input checked="" type="checkbox"/> General.Interest			
<input checked="" type="checkbox"/> IM			
<input type="checkbox"/> Network.Service			
<input checked="" type="checkbox"/> P2P			
<input type="checkbox"/> Remote.Access			
<input checked="" type="checkbox"/> Social.Networking			
<input type="checkbox"/> Update			
<input type="checkbox"/> VoIP			

Application Name	Category	Technology	Popularity	Risk
0z0	File.Sharing	Browser-Based	☆☆☆☆☆	Excessive-Bandwidth
2Shared.Browse.Upload.File	File.Sharing	Browser-Based	☆☆☆☆☆	Excessive-Bandwidth
2Shared.Search.Download.File	File.Sharing	Browser-Based	☆☆☆☆☆	Excessive-Bandwidth
2ch	Social.Networking	Browser-Based	☆☆☆☆☆	
2ch_Post	Social.Networking	Browser-Based	☆☆☆☆☆	
4shared	File.Sharing	Browser-Based	☆☆☆☆☆	Excessive-Bandwidth
6cn	Media	Browser-Based	☆☆☆☆☆	Excessive-Bandwidth
9PTV	P2P	Peer-to-Peer	☆☆☆☆☆	Excessive-Bandwidth
24im	IM	Client-Server	☆☆☆☆☆	Excessive-Bandwidth
51.Com	Social.Networking	Browser-Based	☆☆☆☆☆	
51.Com_BBS	Social.Networking	Browser-Based	☆☆☆☆☆	Excessive-Bandwidth
51.Com_Music	Media	Browser-Based	☆☆☆☆☆	Excessive-Bandwidth
51.Com_Posting	Social.Networking	Browser-Based	☆☆☆☆☆	Excessive-Bandwidth
51.Com_Webdisk	File.Sharing	Browser-Based	☆☆☆☆☆	Excessive-Bandwidth

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Action Monitor Block Reset Traffic Shaping

Policy Type Firewall VPN

Policy Subtype Address User Identity Device Identity

Incoming Interface

Source Address

Outgoing Interface

Destination Address

Schedule

Service

Action

Enable NAT

Use Destination Interface Address Fixed Port

Use Dynamic IP Pool

Use Central NAT Table

Logging Options

No Log

Log Security Events

Log all Sessions

Security Profiles

AntiVirus

Web Filter

Application Control





Results

Go to **Log & Report > Traffic Log > Forward Traffic**.

You can see the sensor is working and blocking the traffic from the selected application types, including the P2P application Skype.

Select an entry to view more information, including the application name and the device the traffic originated on.

	Application Name	Application Control List	Application Category	Application Control Acti
	Skype	Block_app-sensor	P2P	drop-session
2	Skype	Block_app-sensor	P2P	drop-session
	Skype	Block_app-sensor	P2P	drop-session
	Skype	Block_app-sensor	P2P	drop-session
		Block_app-sensor		

Dst	 157.55.56.147	Virtual Domain	root
Received	252	Source Country	Reserved
Application Name	 Skype	Src NAT IP	172.20.120.124
Sent / Received	248 B / 252 B	Device Type	Windows PC
Duration	88	Sent	248
Src NAT Port	5878	Application Details	
Device	 00:0c:29:4b:d7:cc	Service	40041/tcp
Protocol	6	byod_name	
Destination Country	United States	Application Control List	Block_app-sensor
Dst Port	40041	roll	65499
Status	deny	Timestamp	Wed Dec 5 22:36:10 2012
Application ID	10	OS Name	Windows
Sequence Number	13720	Policy ID	8
Src Interface	internal	Src	192.168.1.114
Level	notice 	Application Category	P2P
Src Port	5878	Application Control Action	drop-session
logid	13	Sub Type	forward
Threat		Tran Display	snat
Date/Time	1 minute ago (Wed Dec 5 22:36:10 2012)	Dst Interface	wan1