

FORTINET SECURITY AND THE PREVENT AGENDA - SAFEGUARDING STUDENTS ONLINE

Automated Blocking, Monitoring, Alerting and Reporting on Inappropriate Online Activity



Primary and secondary schools now have a statutory duty to engage with the government's Prevent agenda in order to prevent students from being drawn into terrorism. With the Internet and social media playing an important role in the radicalisation of young people, comprehensive IT security is a key factor in complying with the agenda.

But what does this mean in practice? Simply that schools need to strictly monitor who is accessing or trying to access harmful content, consistently block access to inappropriate sites, and provide detailed activity reports to the law enforcement agencies, security services and Ofsted.

Fortinet can provide primary and secondary schools with security solutions and tools that comply with the Prevent agenda's requirements.

INTELLIGENT MONITORING

Fortinet solutions provide real-time dashboards so that administrators can have complete visibility into user activity as

well as quickly identify malicious individuals and actions. Sophisticated content filtering technology enables web traffic to be classified and filtered using multiple pre-defined and custom categories.

ROBUST BLOCKING

The ability to block access to harmful, inappropriate and dangerous websites is essential for compliance with the Prevent agenda. Fortinet solutions can prevent students from visiting malicious sites, shield them from inappropriate online material, and maintain a safe and productive learning environment.

AUTOMATED ALERTING

The ability to alert by email on inappropriate online activity such as but not limited to:

- Accessing sites prohibited in the Extremist Web Filtering category
- Typing specific keywords (from a pre-defined list) in search engines such as Google, Bing & Yahoo.

FORTINET RECOGNISED AS A LEADER IN THE UK EDUCATION SECTOR

- Self Certified to the UK Safer Internet Centre 'Appropriate Filtering' Definition*
- IWF Members; Live URL Feed Integrated into FortiGuard**
- Home Office CTIRU Integration
- 78 Category 'Real-Time' Web Filtering
- Google, Bing & Yahoo Keyword Search Reporting
- Instant Alerting on Suspicious Activity
- Comprehensive Reporting
- SSL Inspection



* www.saferinternet.org.uk/advice-centre/teachers-and-professionals/appropriate-filtering-and-monitoring/provider-responses-1

** www.iwf.org.uk/become-a-member/services-for-members/url-list/iwf-url-list-recipients

Fortinet solutions begin with traditional URL blocking lists, but go much further by expanding these methods and allowing their use in combination with a wide variety of features for inspecting, rating, and controlling perimeter web traffic at a granular level.

In addition, with Fortinet solutions, network security is continuously kept up to date with real-time threat intelligence from the world's leading threat monitoring organizations, other security vendors and law enforcement agencies.

Finally, with Fortinet's custom ASIC technology, overall performance is not compromised. In addition to blocking inappropriate content, Fortinet solutions can give administrators the ability to explicitly allow certain web sites, and pass uninspected web traffic both to and from known good web sites, accelerating traffic flows.

DETAILED REPORTING

The ability to provide accurate reports to law enforcement and security organisations on demand is a key requirement of the Prevent agenda.

Fortinet's solutions feature easy-to-use, flexible widget-based views and drill-down capabilities letting administrators quickly visualise and understand network activities. Detailed, aggregated logs offer deep insights into sessions that pass through the solutions. A comprehensive suite of easily customisable reports allows administrators to quickly analyse and document inappropriate network usage as well as identify network threats and inefficiencies.

For example, the log report shown in Figure 1 displays web browsing activity from user jsmith. The report provides a number of details amongst which are the inappropriate websites visited, from which device and server the activity originated, and the action taken. This example demonstrates how Fortinet solutions can help administrators identify malicious activity and take the appropriate actions to comply with both the school and the Prevent agenda.

PREVENT AGENDA COMPLIANCE

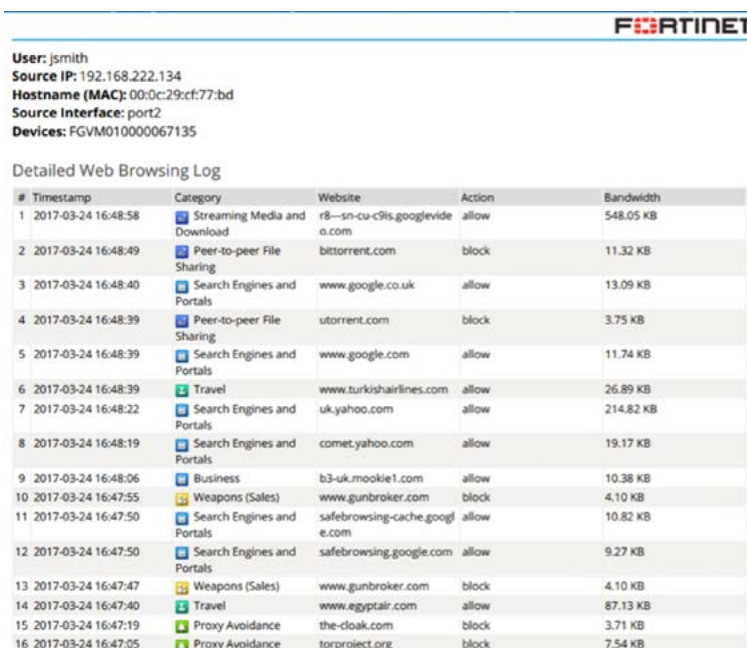
Fortinet solutions enable primary and secondary schools to safeguard their students and comply with the Prevent agenda as well as enable a progressive learning environment.



Keyword Searched

#	Date/Time	User	Source IP	Keyword Searched
1	2017-03-24 12:33:51	jbloggs	192.168.222.133	the cloak
2	2017-03-24 12:34:12	jbloggs	192.168.222.133	how to bypass a web proxy
3	2017-03-24 12:35:01	jbloggs	192.168.222.133	avoid safesearch
4	2017-03-24 12:35:20	jbloggs	192.168.222.133	bypass safe search
5	2017-03-24 12:35:32	jbloggs	192.168.222.133	isis
6	2017-03-24 12:35:49	jbloggs	192.168.222.133	daesh
7	2017-03-24 12:36:45	jbloggs	192.168.222.133	behead
8	2017-03-24 12:37:14	jbloggs	192.168.222.133	syrian border
9	2017-03-24 12:37:15	jbloggs	192.168.222.133	syrian border countries
10	2017-03-24 12:37:15	jbloggs	192.168.222.133	syrian border map
11	2017-03-24 12:37:17	jbloggs	192.168.222.133	syrian border crossings
12	2017-03-24 12:37:28	jbloggs	192.168.222.133	syria turkey border crossing map
13	2017-03-24 12:37:40	jbloggs	192.168.222.133	flights to turkey
14	2017-03-24 12:47:13	jsmith	192.168.222.134	how to build a pipe bomb
15	2017-03-24 12:47:45	jsmith	192.168.222.134	avoid youtube restricted mode

EXAMPLE KEYWORD SEARCHED REPORT



Detailed Web Browsing Log

#	Timestamp	Category	Website	Action	Bandwidth
1	2017-03-24 16:48:58	Streaming Media and Download	rs--sn-cu-c9is.googlevide	allow	548.05 KB
2	2017-03-24 16:48:49	Peer-to-peer File Sharing	bittorrent.com	block	11.32 KB
3	2017-03-24 16:48:40	Search Engines and Portals	www.google.co.uk	allow	13.09 KB
4	2017-03-24 16:48:39	Peer-to-peer File Sharing	utorrent.com	block	3.75 KB
5	2017-03-24 16:48:39	Search Engines and Portals	www.google.com	allow	11.74 KB
6	2017-03-24 16:48:39	Travel	www.turkishairlines.com	allow	26.89 KB
7	2017-03-24 16:48:22	Search Engines and Portals	uk.yahoo.com	allow	214.82 KB
8	2017-03-24 16:48:19	Search Engines and Portals	comet.yahoo.com	allow	19.17 KB
9	2017-03-24 16:48:06	Business	b3-uk.mookie1.com	allow	10.38 KB
10	2017-03-24 16:47:55	Weapons (Sales)	www.gunbroker.com	block	4.10 KB
11	2017-03-24 16:47:50	Search Engines and Portals	safebrowsing-cache.googl	allow	10.82 KB
12	2017-03-24 16:47:50	Search Engines and Portals	safebrowsing.google.com	allow	9.27 KB
13	2017-03-24 16:47:47	Weapons (Sales)	www.gunbroker.com	block	4.10 KB
14	2017-03-24 16:47:40	Travel	www.egyptair.com	allow	87.13 KB
15	2017-03-24 16:47:19	Proxy Avoidance	the-cloak.com	block	3.71 KB
16	2017-03-24 16:47:05	Proxy Avoidance	torproject.org	block	7.54 KB

EXAMPLE USER ACTIVITY REPORT



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