Using Application Control Features with HTTP(S) Proxies

https://campus.barracuda.com/doc/46208995/

You can use Application Control features with the internal HTTP Proxy service and external proxies. Depending on what type of proxy is used, Application Control might be limited or require additional configuration.

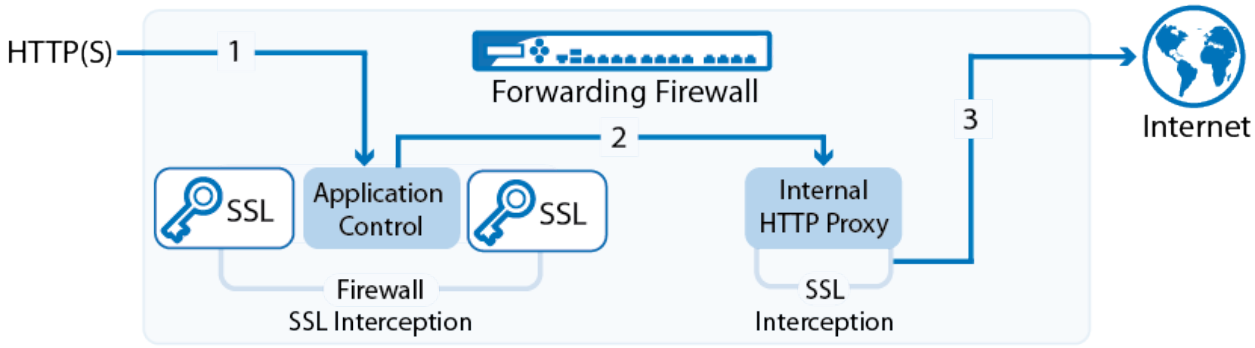
Proxy Type	HTTP Proxy Service: Forward Proxy on ports 3128 and 8080	HTTP Proxy Service: Transparent Proxy	External HTTP(S) Proxy	External HTTP + HTTPS Proxies
Application Control	Yes	Yes	Yes	Yes
Sub-application Detection	No	Yes (with an access rule for HTTPS)	Yes	Yes
SSL Interception	Yes (via HTTP Proxy Service)	Yes (with an access rule for HTTPS)	Yes	Yes
Virus Scanning	Yes (via HTTP Proxy Service)	Yes (via HTTP Proxy Service)	Yes	Yes
URL Filter	Yes (via HTTP Proxy Service or Firewall Service)	Yes (via HTTP Proxy Service or Firewall Service)	Yes	Yes
ATP	Yes	Yes	Yes	Yes
Application Based Provider Selection	No	No	-	-
Safe Search	No	No	No	No
Google Accounts Filtering	No	No	No	No
File Content Filtering	No	No	No	No
User Agent Filtering	Yes	Yes	Yes	Yes

HTTP Proxy Service (Forward Proxy)

When the client is configured to use the HTTP Proxy service for both HTTP and HTTPS, Application Control can be used to detect applications for HTTP connections. Clients contact the HTTP Proxy service directly on port 3128 or 8080 for both HTTP and HTTPS connections. SSL Interception is handled in the HTTP Proxy service

Please note that this setup does not work if you are using a load balanced HA deployment in which the Forwarding Firewall service and the HTTP Proxy service are not on the same virtual

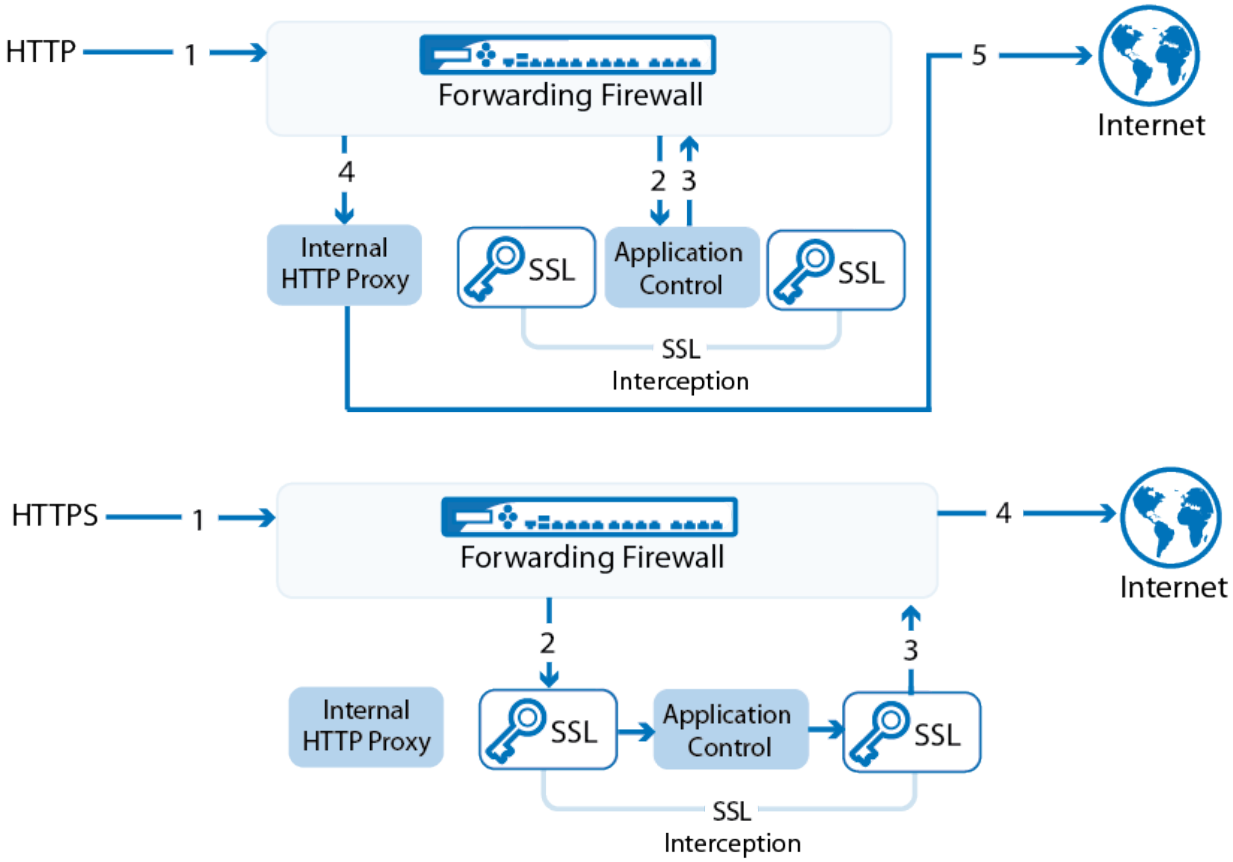
server.



HTTP Proxy Service (Transparent Proxy)

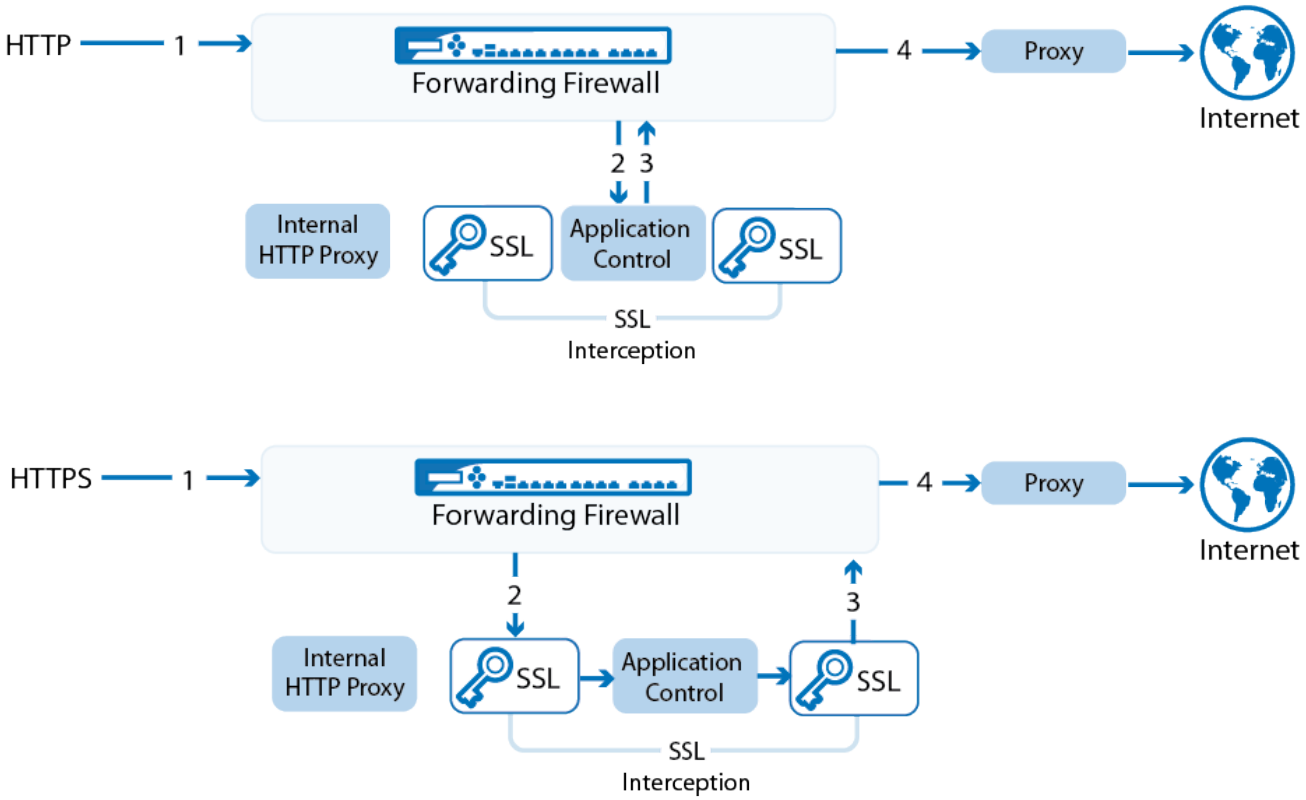
When the HTTP Proxy service on the F-Series Firewall is configured as a transparent proxy, only HTTP traffic is sent to the HTTP Proxy. To pass HTTPS traffic through Application Control and SSL Interception, you must configure an explicit access rule.

It is not possible to use the built-in SSL Interception in the HTTP Proxy in a transparent proxy configuration.



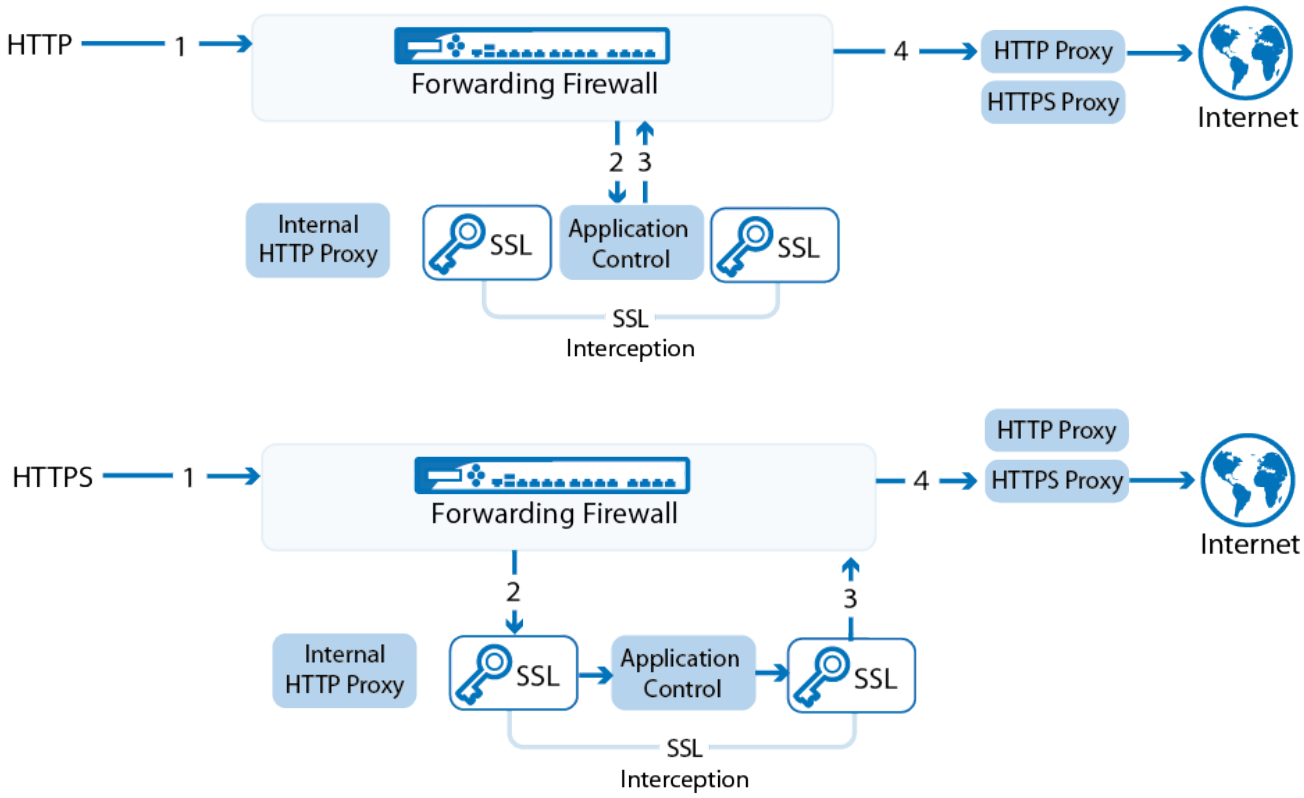
External Proxy

When clients use an external proxy for both HTTP and HTTPS traffic, there are no restrictions. Application Control can inspect all traffic coming from or going to the proxy.



Separate HTTP and HTTPS (SSL) Proxies

No limitations apply when clients are configured to use separate external HTTP and HTTPS proxies. Application Control and SSL Interception can inspect all traffic coming from and going to the HTTP and HTTPS proxies.


HTTP
1
Forwarding Firewall
4
HTTP Proxy
HTTPS Proxy
Internet
2 3
Internal HTTP Proxy
SSL
Application Control
SSL
SSL Interception
HTTPS
1
Forwarding Firewall
4
HTTP Proxy
HTTPS Proxy
Internet
2
3
Internal HTTP Proxy
SSL
Application Control
SSL
SSL Interception

Figures

1. appid_fwd_proxy.png
2. appid_transparent_proxy.png
3. appid_ext_all_in1_proxy.png
4. appid_ext_http_ssl_proxy.png