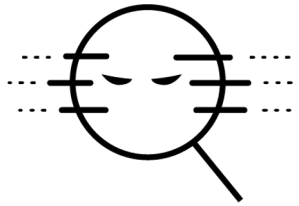
BLOCK THREATS USING SECURITY PROFILES



VERIFY THAT YOUR ALLOWED TRAFFIC IS SAFE

- Inspect allowed traffic
- Block threats detected by signatures
- Control URL access
- Block unauthorized file transfers
- Detect unknown threats
- Block sensitive data transfers
- Security policy modifications

Learning Objectives

After you complete this module,
you should be able to:

- Identify methods to inspect allowed traffic for malicious content
- Block threats detected by known signatures
- Control access to URLs
- Block unauthorized file transfers
- Detect unknown threats
- Block the transfer of sensitive data
- Implement best-practice Security policy settings

Inspect allowed traffic

Block threats detected by signatures

Control URL access

Block unauthorized file transfers

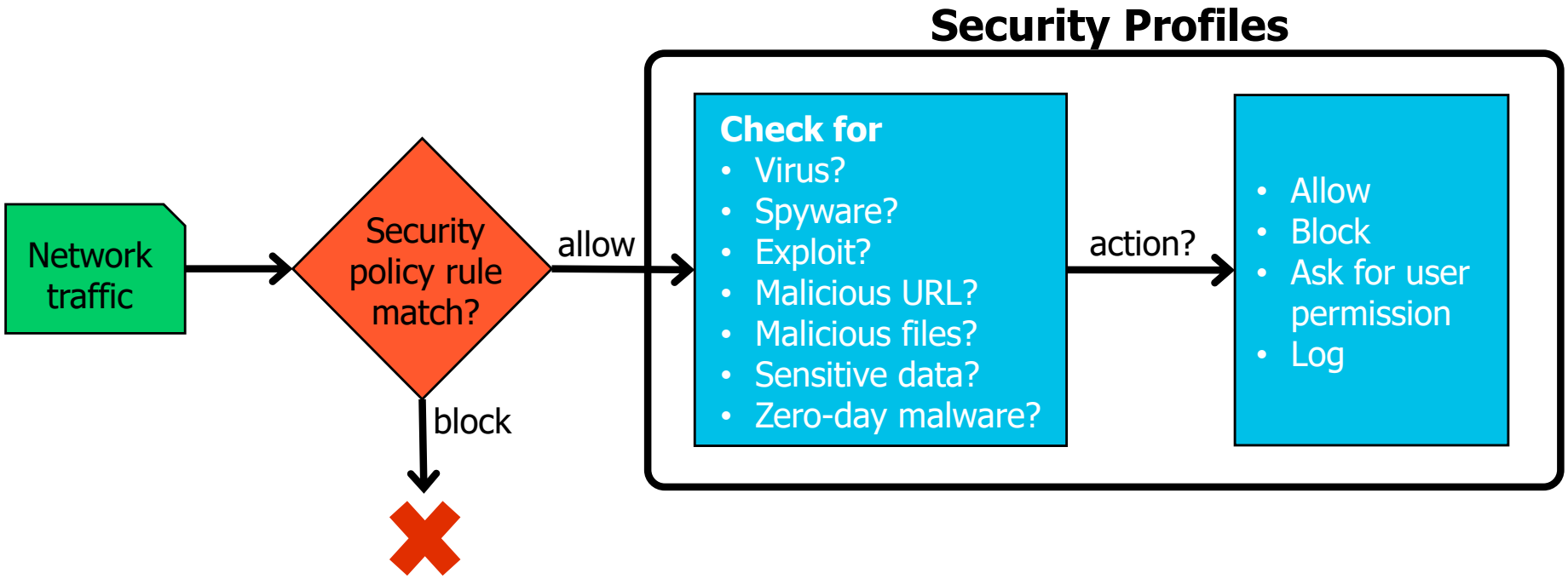
Detect unknown threats

Block sensitive data transfers

Security policy modifications

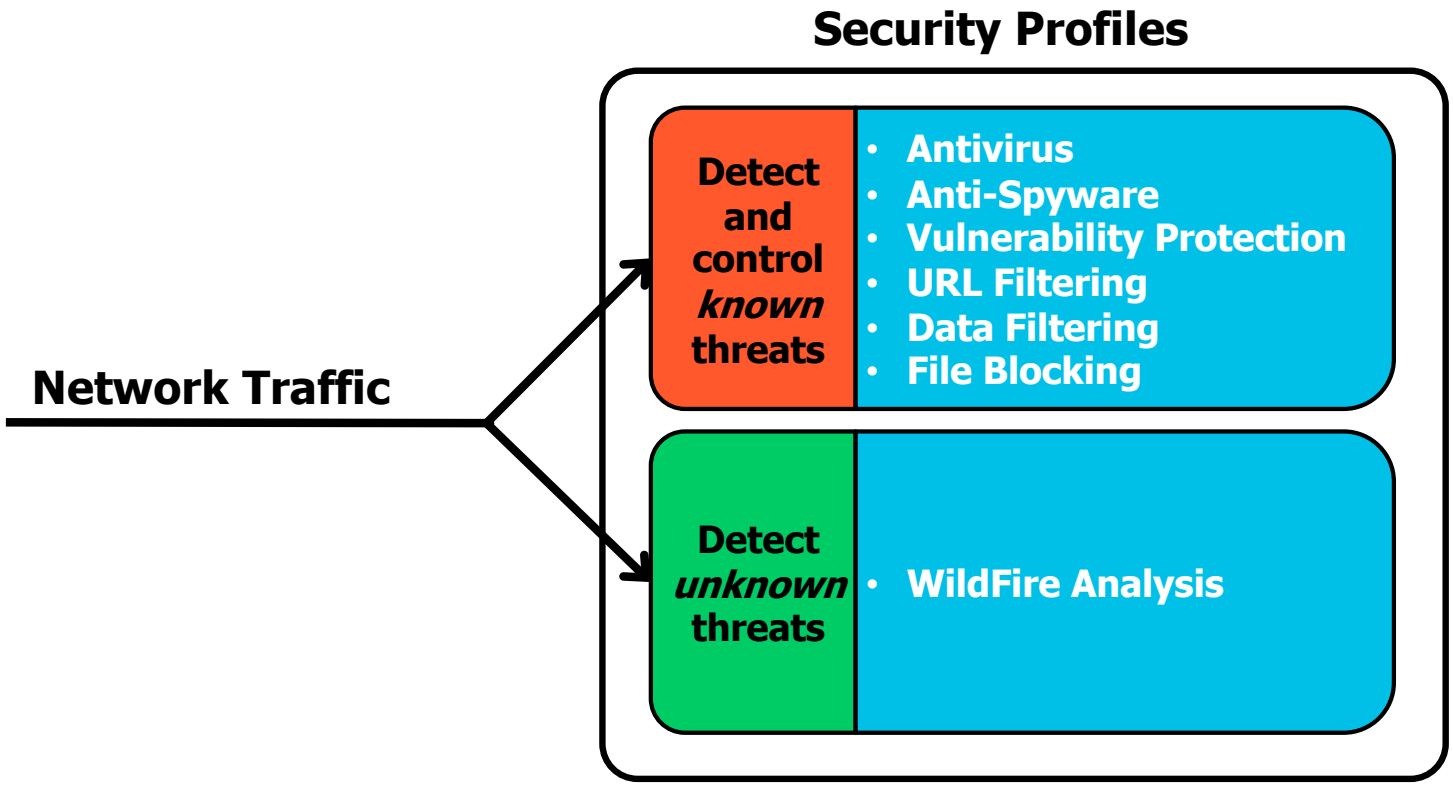
Inspect Allowed Traffic

- Security Profiles implement additional security checks on allowed traffic.
- Add Security Profiles to all allow rules in the Security policy.

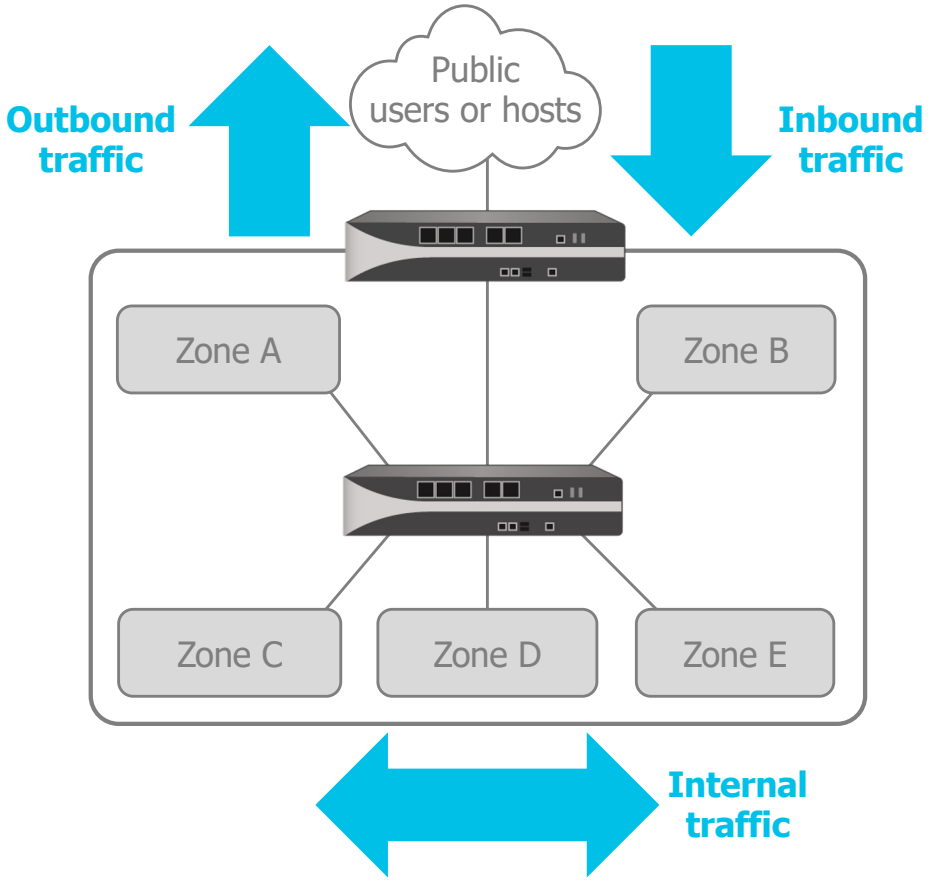


Detect Known and Unknown Threats

Security Profiles detect and control *known* and *unknown* threats.



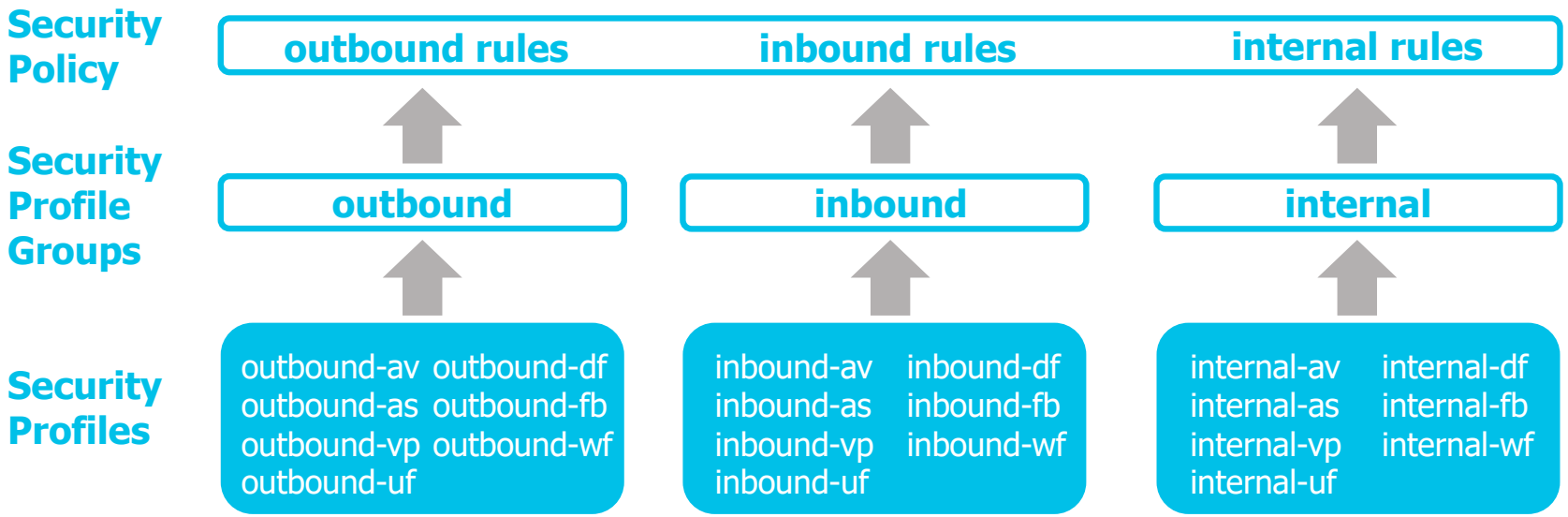
Simplified Traffic Flows



- Traffic flows can be conceptually simplified to:
  - *Outbound* to the internet
  - *Inbound* from the internet
  - *Internal* between internal nodes
- Enables simplified configuration of Security Profiles.

Day-One Security Profile Methodology

- The remainder of this module illustrates a *day-one* best practice configuration.
- This configuration is designed to:
  - Provide application and threat visibility
  - Block threats with minimal or no application downtime



Inspect allowed traffic

Block threats detected by signatures

Control URL access

Block unauthorized file transfers

Detect unknown threats

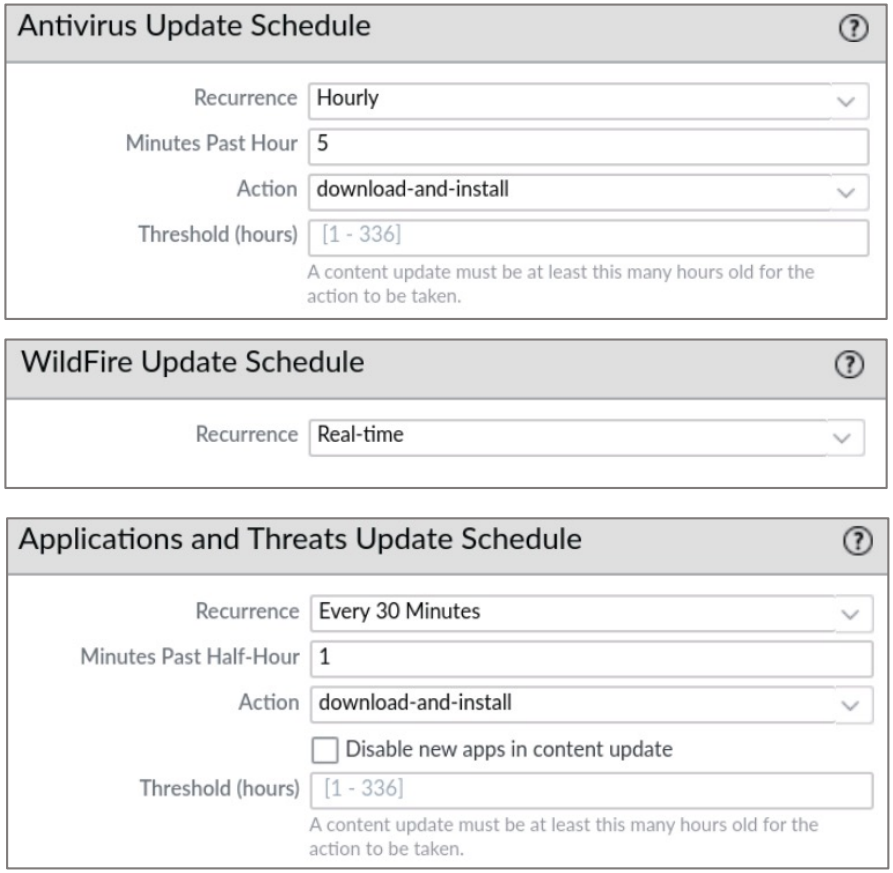
Block sensitive data transfers

Security policy modifications

Threats Detected by Signatures

- Firewall uses signatures to detect:
  - Known viruses
  - Known spyware
  - Known software exploits
- Updated signatures distributed in content updates:
  - Dynamic update virus signatures:
    - Schedule firewall to check hourly.
  - WildFire updated virus signatures:
    - Schedule firewall to check in real-time.
  - Spyware and exploit signatures:
    - Schedule firewall to check every 30 minutes.

Device > Dynamic Updates



Block Known Viruses: Inbound and Outbound

Objects > Security Profiles > Antivirus

NAME	LOCATION	PACKET CAPTURE	Decoders			
			PROTOCOL	SIGNATURE ACTION	WILDFIRE SIGNATURE ACTION	WILDFIRE INLINE ML ACTION
Outbound-AV			http	default (reset-both)	default (reset-both)	default (reset-both)
			http2	default (reset-both)	default (reset-both)	default (reset-both)
			smtp	reset-both	reset-both	reset-both
			imap	reset-both	reset-both	reset-both
			pop3	reset-both	reset-both	reset-both
			ftp	default (reset-both)	default (reset-both)	default (reset-both)
			smb	default (reset-both)	default (reset-both)	default (reset-both)
Inbound-AV			http	default (reset-both)	default (reset-both)	default (reset-both)
			http2	default (reset-both)	default (reset-both)	default (reset-both)
			smtp	reset-both	reset-both	reset-both
			imap	reset-both	reset-both	reset-both
			pop3	reset-both	reset-both	reset-both
			ftp	default (reset-both)	default (reset-both)	default (reset-both)
			smb	default (reset-both)	default (reset-both)	default (reset-both)

Recommended settings for outbound and inbound profiles

Action to take based on virus signatures delivered in content updates

WildFire action to take based on signatures delivered by WildFire subscription

Block Known Viruses: Internal and Alert-Only

Objects > Security Profiles > Antivirus

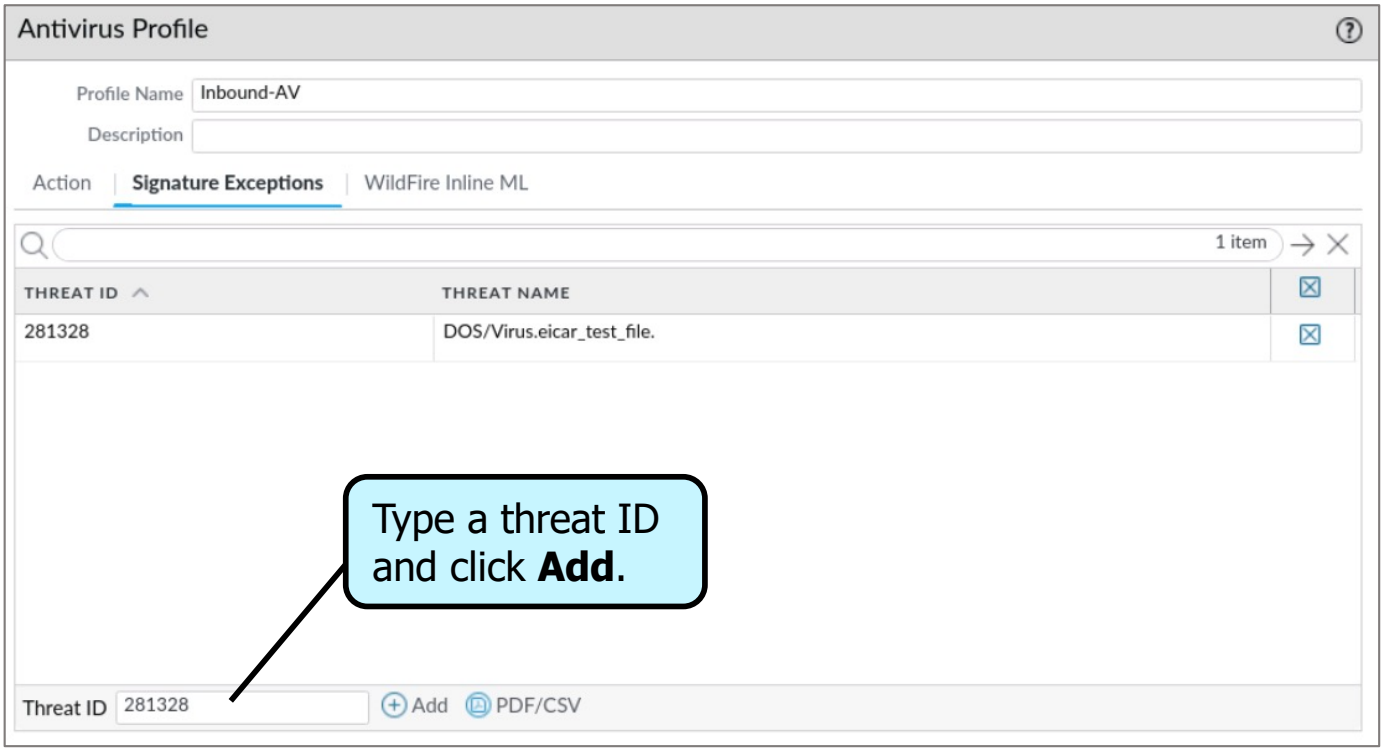
NAME	LOCATION	PACKET CAPTURE	Decoders			
			PROTOCOL	SIGNATURE ACTION	WILDFIRE SIGNATURE ACTION	WILDFIRE INLINE ML ACTION
Internal-AV			http	default (reset-both)	default (reset-both)	default (reset-both)
			http2	default (reset-both)	default (reset-both)	default (reset-both)
			smtp	default (alert)	default (alert)	default (alert)
			imap	default (alert)	default (alert)	default (alert)
			pop3	default (alert)	default (alert)	default (alert)
			ftp	default (reset-both)	default (reset-both)	default (reset-both)
			smb	default (reset-both)	default (reset-both)	default (reset-both)
Alert-Only-AV			http	alert	alert	alert
			http2	alert	alert	alert
			smtp	default (alert)	default (alert)	default (alert)
			imap	default (alert)	default (alert)	default (alert)
			pop3	default (alert)	default (alert)	default (alert)
			ftp	alert	alert	alert
			smb	alert	alert	alert

Recommended settings for internal and alert-only profiles

Optional, for initial configuration only

Create Antivirus Exceptions

Objects > Security Profiles > Antivirus > Add



- To reduce the number of false positives, use **Threat ID** to create an exemption.
- Threat IDs are recorded in the Threat log.

Block Known Spyware

Objects > Security Profiles > Anti-Spyware

NAME	COUNT	POLICY NAME	THREAT NAME	SEVERITY	ACTION	PACKET CAPTURE
Outbound-AS	Policies: 2	Block-Critical-High-Medium	any	critical,high,medium	reset-both	single-packet
		Default-Low-Info	any	low,informational	default	disable
Internal-AS	Policies: 2	Block-Critical-High	any	high,critical	reset-both	single-packet
		Default-Medium-Low-Info	any	medium,low,informational	default	disable
Inbound-AS	Policies: 2	Block-Critical-High-Medium	any	critical,high,medium	reset-both	single-packet
		Default-Low-Info	any	low,informational	default	disable
Alert-Only-AS	Policies: 1	Alert-All	any	any	alert	disable

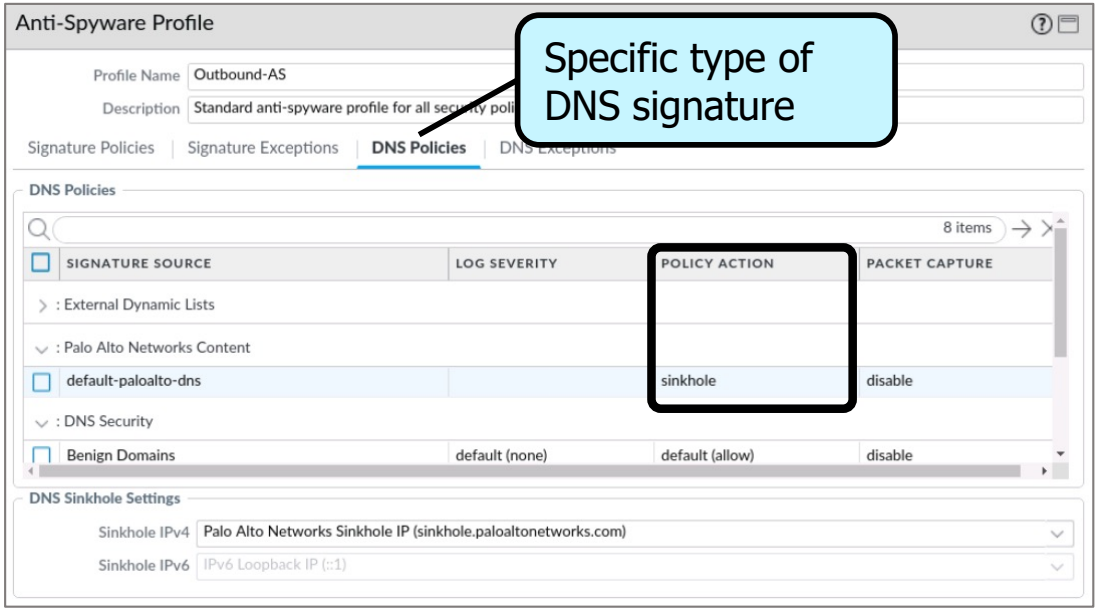
Rules specify actions on detected spyware.

- Recommended profiles and settings.
- Attach profiles to Security policy allow rules.

Enable Sinkhole

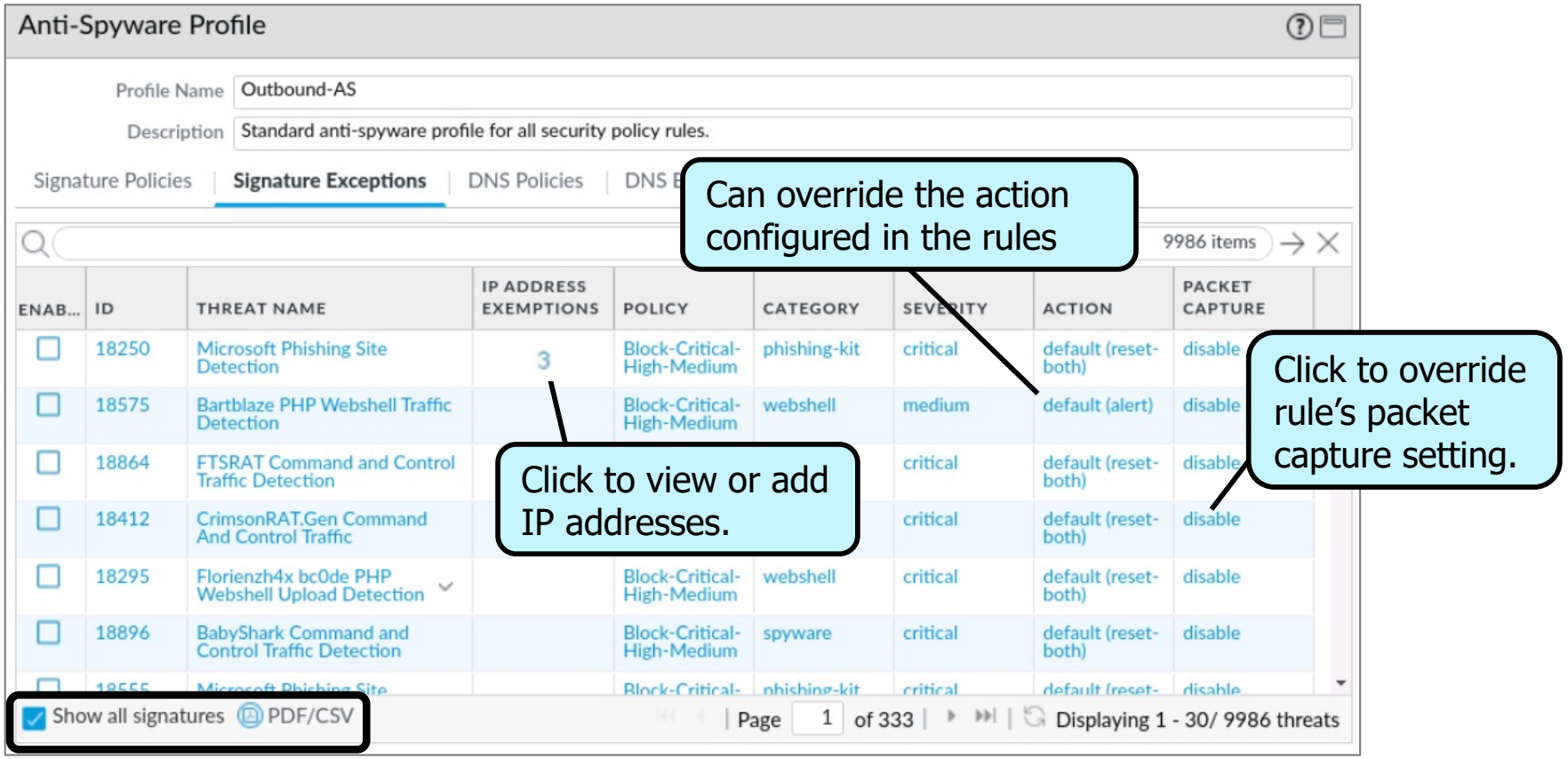
- Use **sinkhole** action for traffic matching a DNS signature:
  - Default action starting with PAN-OS® 9.0
- Hosts attempting to resolve a malicious domain name are recorded in the Threat log.
- Helps discover hosts possibly infected with spyware.
- Leave **sinkhole** enabled for outbound-as, internal-as, and inbound-as profiles.

Objects > Security Profiles > Anti-Spyware



Anti-Spyware Exceptions

Objects > Security Profiles > Anti-Spyware > Add



Block Known Exploits

Objects > Security Profiles > Vulnerability Protection

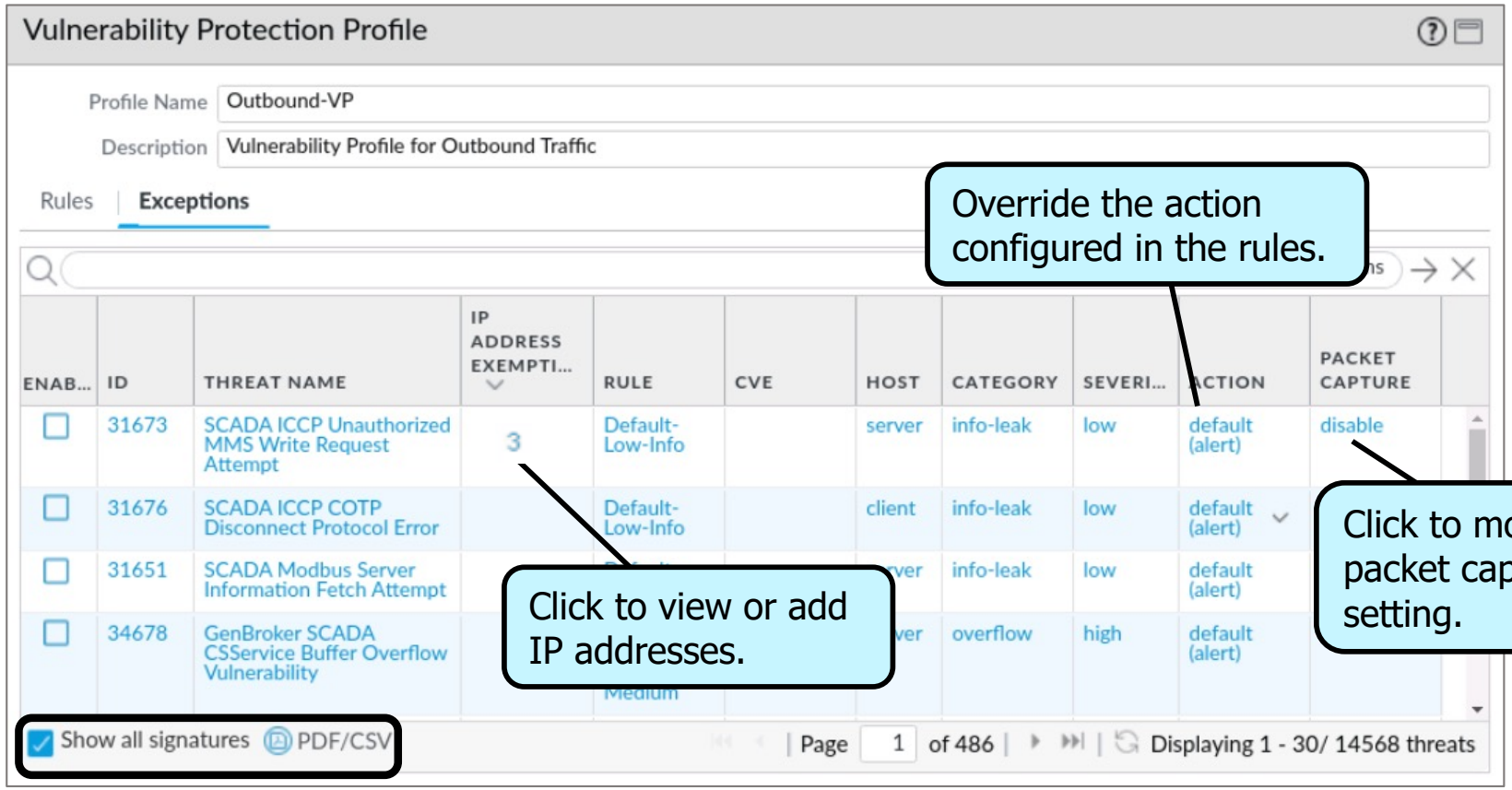
Recommended profile types and profile settings

NAME	COUNT	RULE NAME	THREAT NAME	HOST TYPE	SEVERITY	ACTION	PACKET CAPTURE
Outbound-VP	Rules: 2	Block-Critical-High-Medium	any	any	critical,high,medium	reset-both	single-packet
		Default-Low-Info	any	any	low,informational	default	disable
Inbound-VP	Rules: 2	Block-Critical-High-Medium	any	any	critical,high,medium	reset-both	single-packet
		Default-Low-Info	any	any	low,informational	default	disable
Internal-VP	Rules: 2	Block-Critical-High	any	any	critical,high	reset-both	single-packet
		Default-Medium-Low-Info	any	any	medium,low,informational	default	disable
Alert-Only-VP	Rules: 1	Alert-All	any	any	any	alert	disable

Rules specify actions on detected threats.

Create Vulnerability Exceptions

Objects > Security Profiles > Vulnerability Protection > Add



View Threat Information

- Virus, spyware, and exploit threats are logged to the Threat log.
- Either the source or destination can send the malware.

Monitor > Logs > Threat

		RECEIVE TIME	TYPE	THREAT ID/NAME	FROM ZONE	TO ZONE	SOURCE ADDRESS	DESTINATION ADDRESS	TO PORT	APPLICATI...	ACTION	SEVERITY
		07/24 21:24:13	vuln					89.238.73.97	443	web-browsing	reset-both	medium
		07/24 21:24:09	vuln					89.238.73.97	443	web-browsing	reset-both	medium
		07/21 20:08:40	spyw					4.2.2.2	53	dns	drop	medium
		07/20 22:02:09	spyware	malicious-domains-edl	Users_Net	Internet	192.168.1.20	1.1.1.1	53	dns	sinkhole	medium
		07/20 22:01:59	spyware	malicious-domains-edl	Users_Net	Internet	192.168.1.20	4.2.2.2	53	dns	sinkhole	medium
		07/20 22:01:54	sp			Internet	192.168.1.20	1.1.1.1	53	dns	sinkhole	medium
		07/20 22:01:44	sp			Internet	192.168.1.20	4.2.2.2	53	dns	sinkhole	medium

Includes packet capture (only if an Antivirus, Anti-Spyware, or Vulnerability Protection Profile enables packet capture)

Open **Threat Details** window.

Inspect allowed traffic

Block threats detected by signatures

Control URL access

Block unauthorized file transfers

Detect unknown threats

Block sensitive data transfers

Security policy modifications

Control URL Access

Objects > Security Profiles > URL Filtering

NAME	SITE ACCESS	USER CREDENTIAL SUBMISSION
Alert-Only-UF	Allow Categories (0) Alert Categories (74) Continue Categories (0) Block Categories (0) Override Categories (0)	Allow Categories (0) Alert Categories (0)
default	Allow Categories (58) Alert Categories (4) Continue Categories (0) Block Categories (10) Override Categories (0)	Allow Categories (72)
Outbound-UF	Allow Categories (0) Alert Categories (57) Continue Categories (0) Block Categories (17) Override Categories (0)	
Outbound-Unknown-Blocked-UF	Allow Categories (0) Alert Categories (56) Continue Categories (0) Block Categories (18) Override Categories (0)	

All categories are set to **alert**.

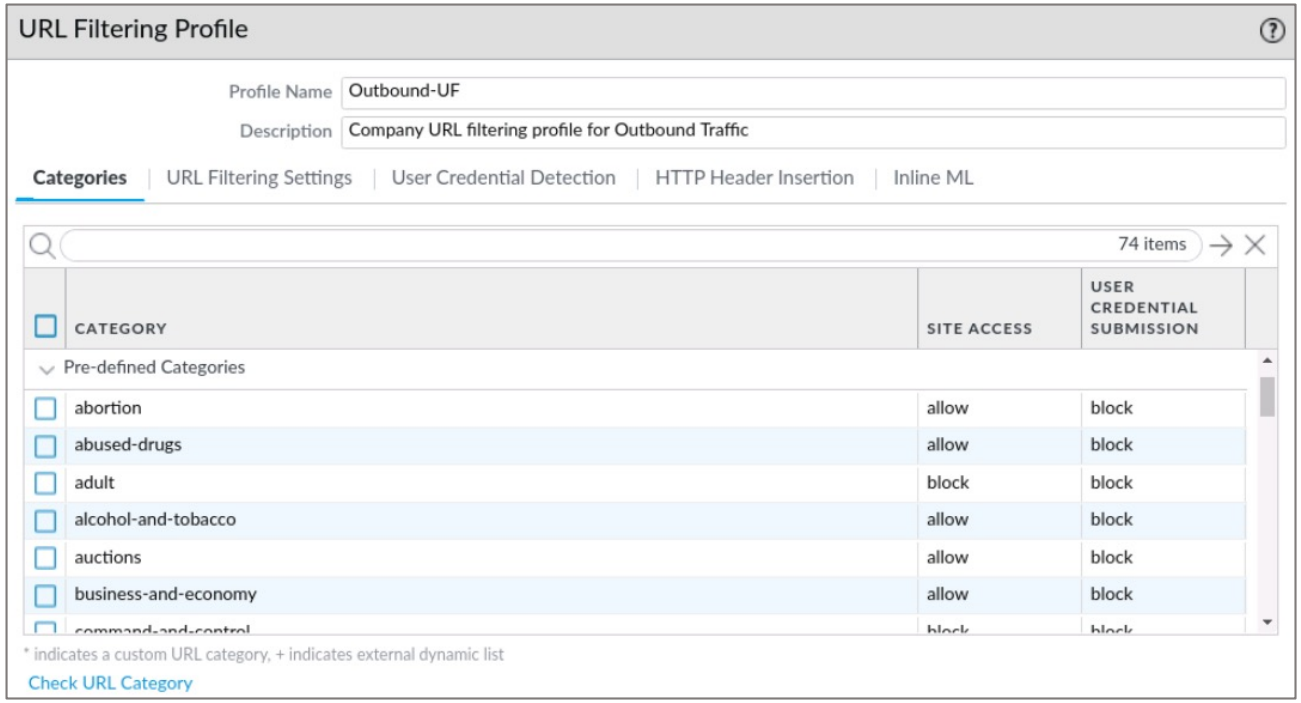
No profiles for inbound or internal traffic

Block known-risky categories and **alert** on all others.

Block known-risky categories and the *unknown* category, **alert** on all others.

Configure URL Filtering

Objects > Security Profiles > URL Filtering > Add



- For outbound-uf:
  - Block:
    - command-and-control
    - high-risk
    - malware
    - phishing
  - Consider blocking:
    - copyright-infringement
    - dynamic-dns
    - extremism
    - parked
    - medium-risk
    - new-registered-domain
    - proxy-avoidance-and-anonymizers
    - questionable
- For the outbound-unknown-blocked-uf, also block:
  - unknown

View the URL Filtering Information

URL filtering activity is recorded in the URL Filtering log.

Monitor > Logs > URL Filtering

	RECEIVE TIME	CATEGORY	URL CATEGORY LIST	URL	FROM ZONE	TO ZONE	SOURCE	DESTINATION	APPLICATION	ACTION
	07/17 19:51:42	News-Sites	News-Sites,unknown,unknown	www.foxnews.com/	Users_Net	Internet	192.168.1.20	23.211.49.170	ssl	alert
	07/17 19:49:40	News-Sites	News-Sites,unknown,unknown	www.foxnews.com/	Users_Net	Internet	192.168.1.20	23.211.49.170	ssl	alert
	07/17 19:47:42	News-Sites	News-Sites,unknown,unknown	www.foxnews.com/	Users_Net	Internet	192.168.1.20	104.103.29.4	ssl	alert
	07/17 19:45:38	News-Sites	News-Sites,unknown,unknown	smetrics.foxnews.com/	Users_Net	Internet	192.168.1.20	34.234.106.101	ssl	alert
	07/17 19:45:38	News-Sites	News-Sites,unknown,unknown	smetrics.foxnews.com/	Users_Net	Internet	192.168.1.20	34.234.106.101	ssl	alert
	07/17 19:45:27	News-Sites	News-Sites,unknown,unknown	a57.foxnews.com/	Users_Net	Internet	192.168.1.20	23.76.192.83	ssl	alert
	07/17 19:45:27	News-Sites	News-Sites,unknown,unknown	static.foxnews.com/	Users_Net	Internet	192.168.1.20	23.207.13.234	ssl	alert
	07/17 19:45:27	News-Sites	News-Sites,unknown,unknown	static.foxnews.com/	Users_Net	Internet	192.168.1.20	23.207.13.234	ssl	alert
	07/17 19:45:27	News-Sites	News-Sites,unknown,unknown	static.foxnews.com/	Users_Net	Internet	192.168.1.20	23.207.13.234	ssl	alert
	07/17 19:45:27	News-Sites	News-Sites,unknown,unknown	static.foxnews.com/	Users_Net	Internet	192.168.1.20	23.207.13.234	ssl	alert

Inspect allowed traffic

Block threats detected by signatures

Control URL access

Block unauthorized file transfers

Detect unknown threats

Block sensitive data transfers

Security policy modifications

Block Unauthorized File Transfers

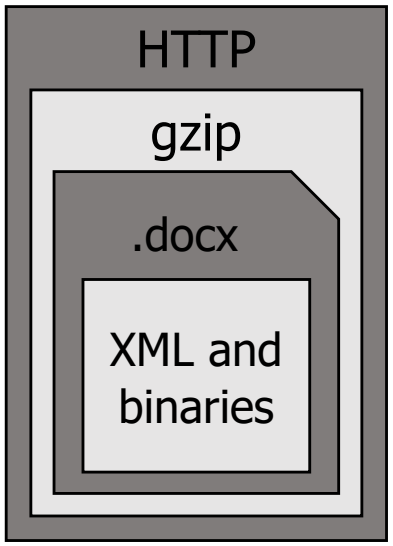
- Profiles detect and control file transfers.
- Can start with alert-only-fb, but other profiles provide protection rather than just logging.

Objects > Security Profiles > File Blocking

NAME	RULE NAME	APPLICATIONS	FILE TYPES	DIRECTION	ACTION
Outbound-FB	Block	any	7z, bat, chm, class, cpl, dll, hlp, hta, jar, ocx, pif, scr, torrent, vbe, wsf	both	block
	Alert-All	any	any	both	alert
Inbound-FB	Block	any	7z, bat, chm, class, cpl, hlp, hta, jar, ocx, pif, scr, torrent, vbe, wsf	both	block
	Alert-All	any	any	both	alert
Internal-FB	Block	any	7z, bat, chm, class, cpl, hlp, hta, jar, ocx, pif, scr, torrent, vbe, wsf	both	block
	Alert-All	any	any	both	alert
Alert-Only-FB	Alert-All	any	any	both	alert

Block Multi-Level Encoded Files

Firewall decodes max of four levels



Objects > Security Profiles > File Blocking > Add

File Blocking Profile

Profile Name: Block-Multi-Level-Encoding

Description: File Blocking Profile to block Multi-Level Encoded files

1 item

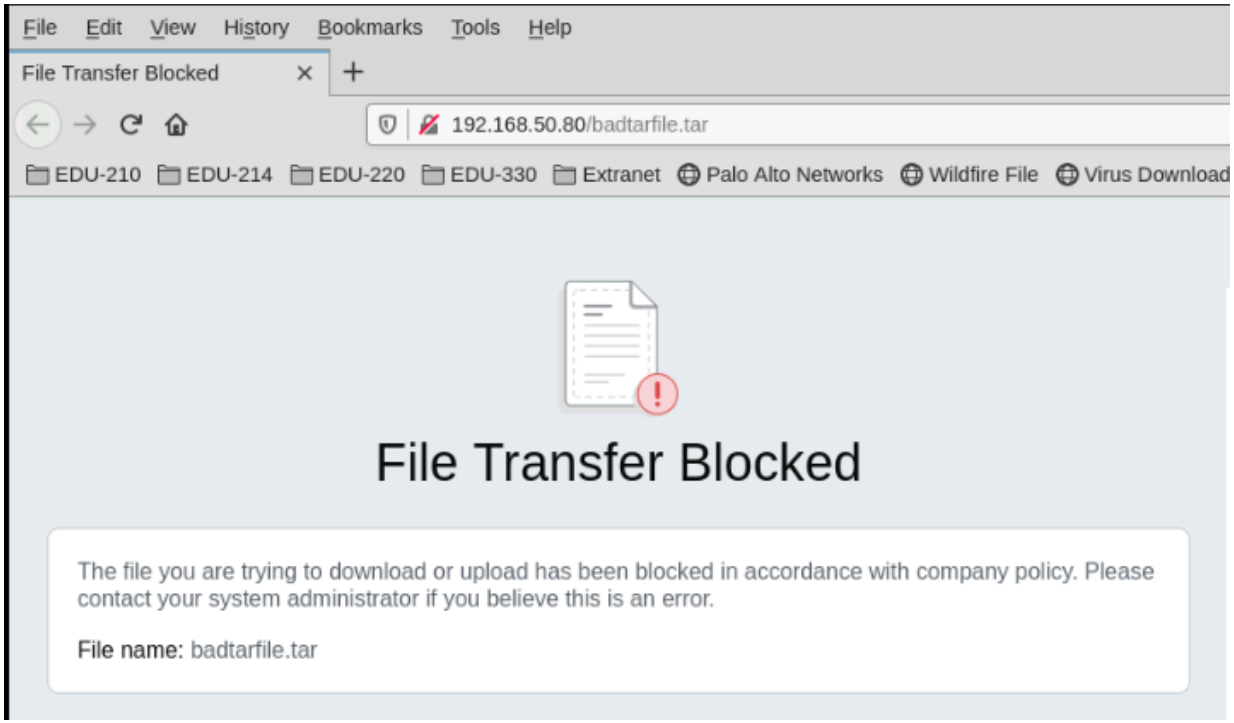
NAME	APPLICATIONS	FILE TYPES	DIRECTION	ACTION
Block-Multiple-Levels	any	Multi-Level-Encoding	both	block

Add Delete

Blocks files encoded more than four levels

Continue Response Page

- A “continue” action requires user permission to complete the file transfer.
- Operates only when paired with the application web-browsing



View File Blocking Information

- Data Filtering log records the name and file type of blocked files.
- Source is the system that sent the file.
- Destination is the system that received the file.

Monitor > Logs > Data Filtering

	RECEIVE TIME	CATEGORY	FILE NAME	THREAT ID/NAME	FROM ZONE	TO ZONE	SOURCE ADDRESS	DESTINATION ADDRESS	TO PORT	APPLICATION	ACTION
	07/17 17:55:24	private-ip-addresses	webmail.php	Hypertext Preprocessor PHP File	Users_Net	Extranet	192.168.1.20	192.168.50.150	80	squirrelmail	alert
	07/17 17:55:16	private-ip-addresses	login.php	Hypertext Preprocessor PHP File	Users_Net	Extranet	192.168.1.20	192.168.50.150	80	web-browsing	alert
	07/17 17:51:58	computer-and-internet-info	04457f5911080bb0...	Unknown Binary File	Extranet	Internet	192.168.50.150	91.189.91.38	80	apt-get	alert
	07/17 17:51:44	computer-and-internet-info	Packages.gz	GZIP	Extranet	Internet	192.168.50.150	104.207.151.13	80	apt-get	alert
	07/17 17:51:34	computer-and-internet-info	ec430cd4d2899367...	Unknown Binary File	Extranet	Internet	192.168.50.150	91.189.91.39	80	apt-get	alert

Inspect allowed traffic

Block threats detected by signatures

Control URL access

Block unauthorized file transfers

Detect unknown threats

Block sensitive data transfers

Security policy modifications

Detect Unknown Threats

Objects > Security Profiles > WildFire Analysis > Add

NAME	RULE NAME	APPLICATIONS	FILE TYPES	DIRECTION	ANALYSIS
default	default	any	any	both	public-cloud
Outbound-WF	Forward-All	any	any	both	public-cloud
Inbound-WF	Forward-All	any	any	both	public-cloud
Internal-WF	Forward-All	any	any	both	public-cloud
Alert-Only-WF	Forward-All	any	any	both	public-cloud

- Determines which files to forward to analyze for unknown threats
- Recommended profile settings illustrated here
- Can start with alert-only-wf to gather log information:
  - Later update to use outbound-wf, inbound-wf, and internal-wf profiles
- Recommend to set **File Types** to **any**:
  - Automatically includes any new file types added to WildFire

Verify Submissions and View Reports

> debug wildfire upload-log show

```
admin@firewall-a> debug wildfire upload-log show


Upload Log disk log rotation size: 2.000 MB.
Public Cloud upload logs:

        log: 0, filename: wildfire-test-pe-file.exe
        processed 6393 seconds ago, action: upload success
        vsys_id:  1, session_id: 196, transaction_id: 3
        file_len:  55296, flag: 0x801c, file type: pe
        threat id: 52020, user_id: 0, app_id: 109
        from 192.168.1.20/50731 to 52.20.176.145/80
        SHA256: d6fbefe577a5336641f184ef4a3136889fed8fd0a37741165f01cd202549b637
```

CLI command to verify successful file upload

View returned report information.

Monitor > Logs > WildFire Submissions

	RECEIVE TIME	FILE NAME	SOURCE ZONE	SOURCE ADDRESS	APPLICATION	RULE	VERDICT	SEVERITY
	07/10 17:04:24	wildfire-test-pe-file.exe	Users_Net	192.168.1.20	web-browsing	Users_to_Internet	malicious	high

Inspect allowed traffic

Block threats detected by signatures

Control URL access

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Detect unknown threats

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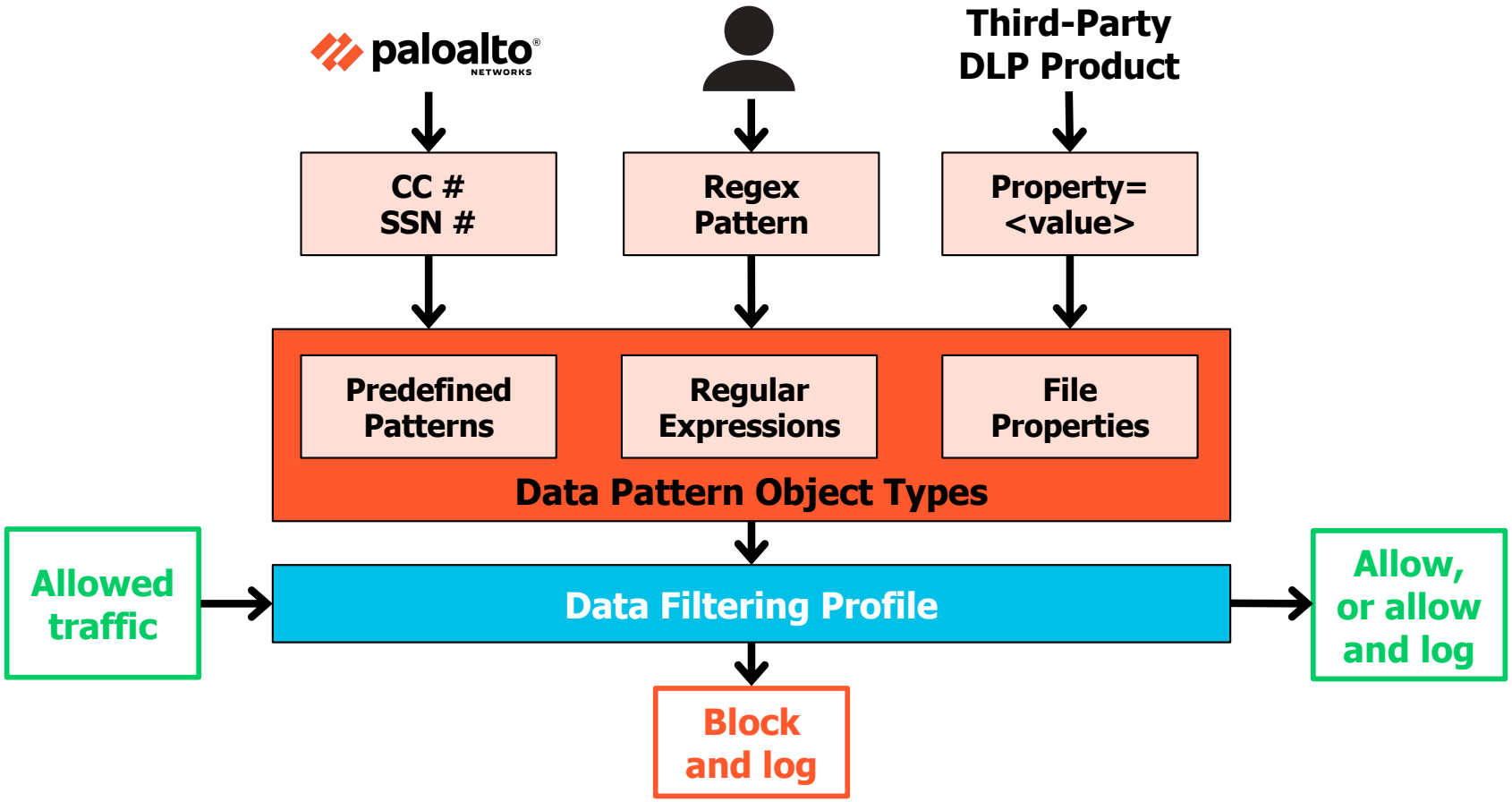
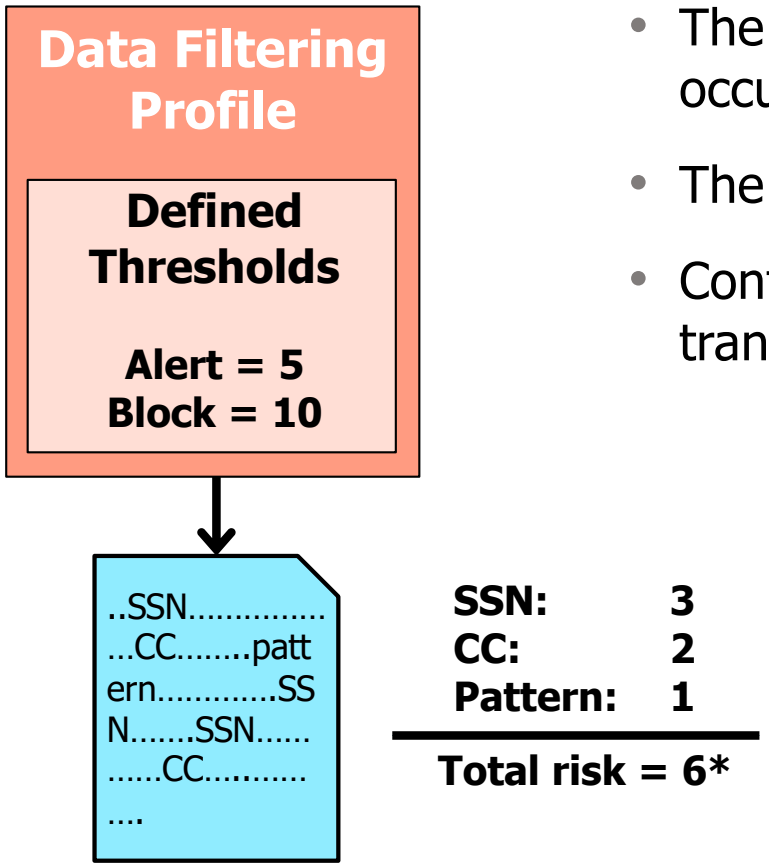
Security policy modifications

Block Sensitive Data Transfers



Threshold Values

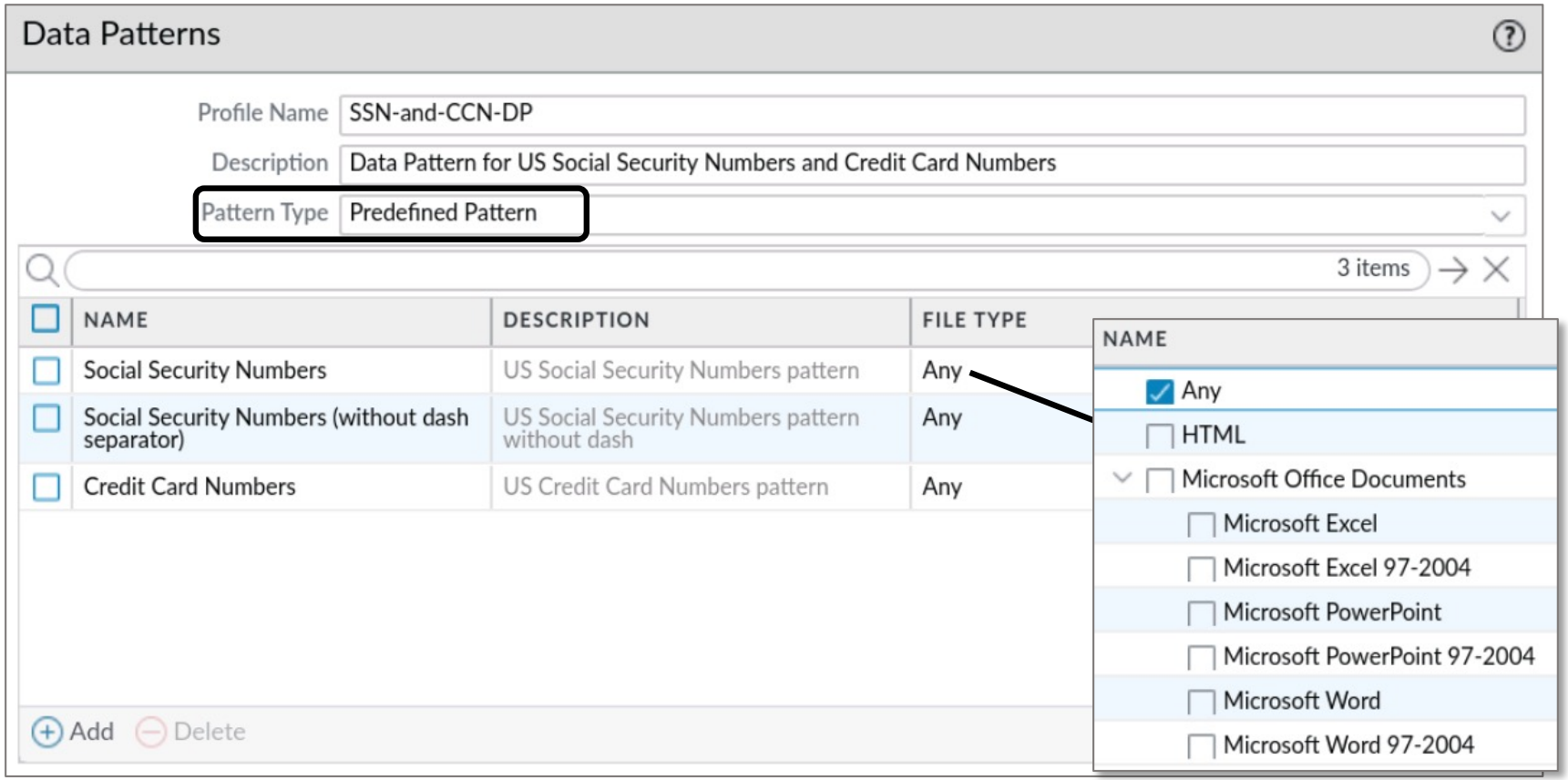


- The firewall maintains a count of each matching occurrence.
- The firewall compares the count to thresholds.
- Configured thresholds determine when data transfers are logged or blocked.

*Triggers an alert

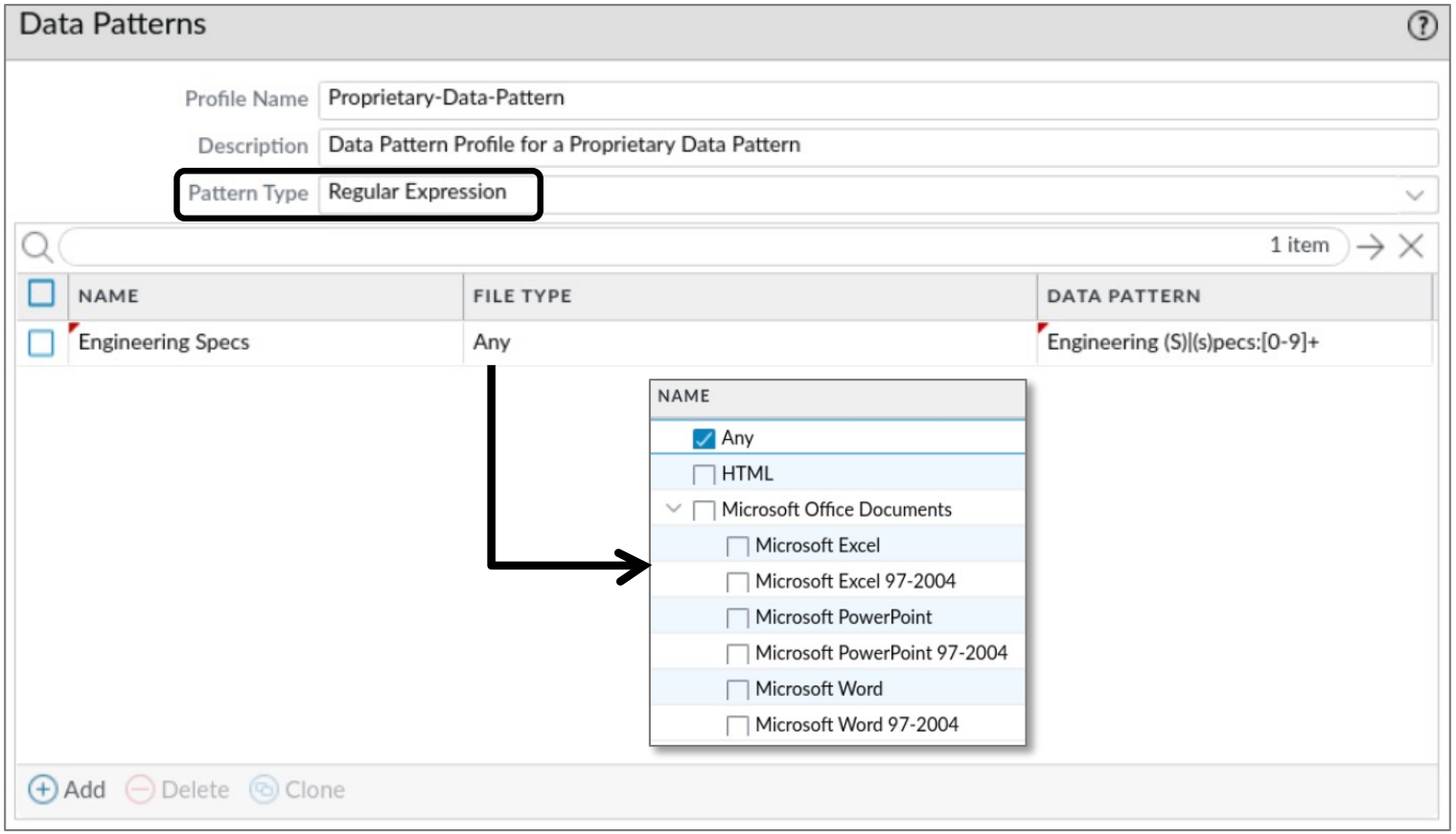
Configure Custom Data Patterns: Predefined Patterns

Objects > Custom Objects > Data Patterns > Add



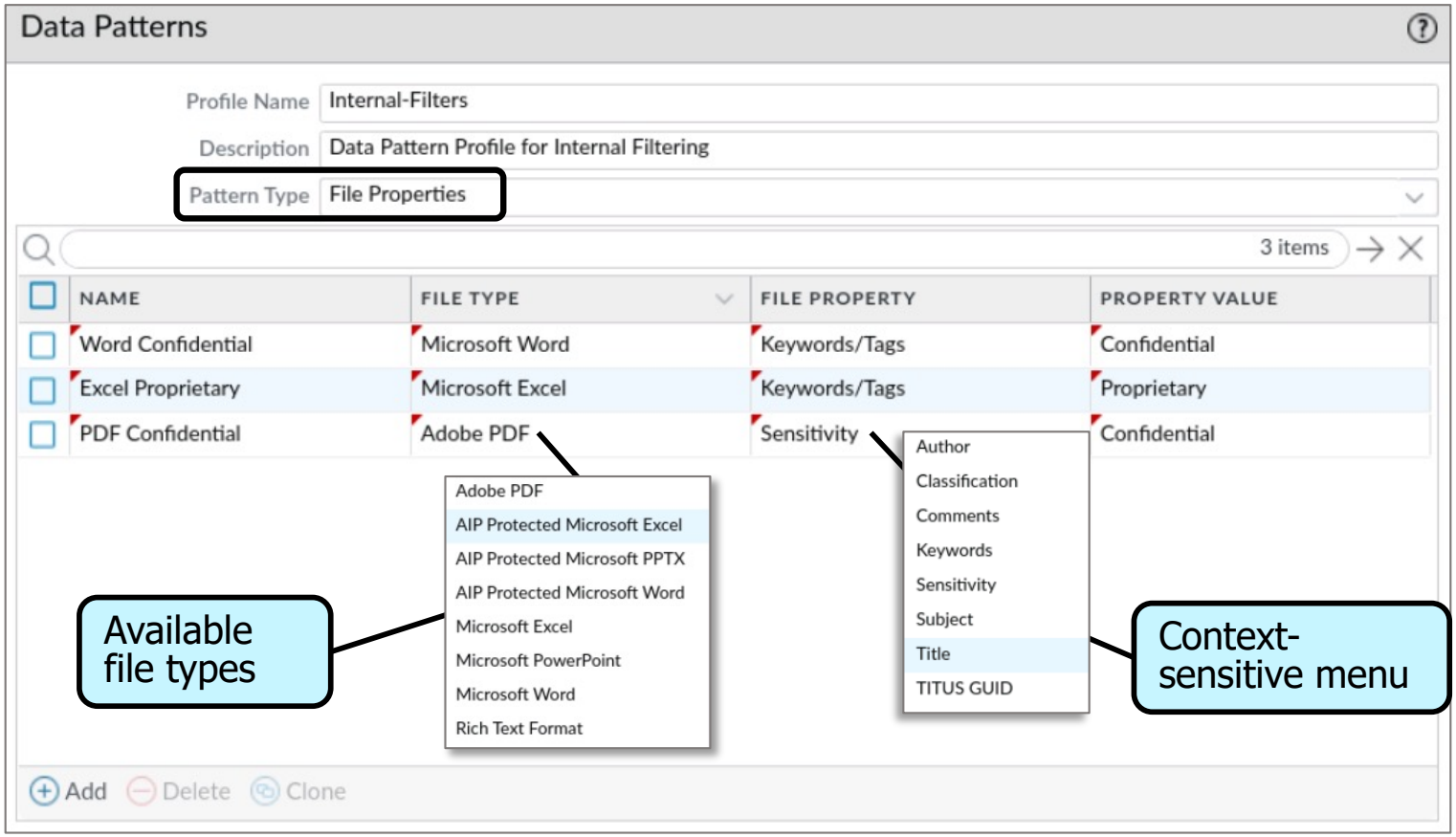
Configure Custom Data Patterns: Regular Expressions

Objects > Custom Objects > Data Patterns > Add



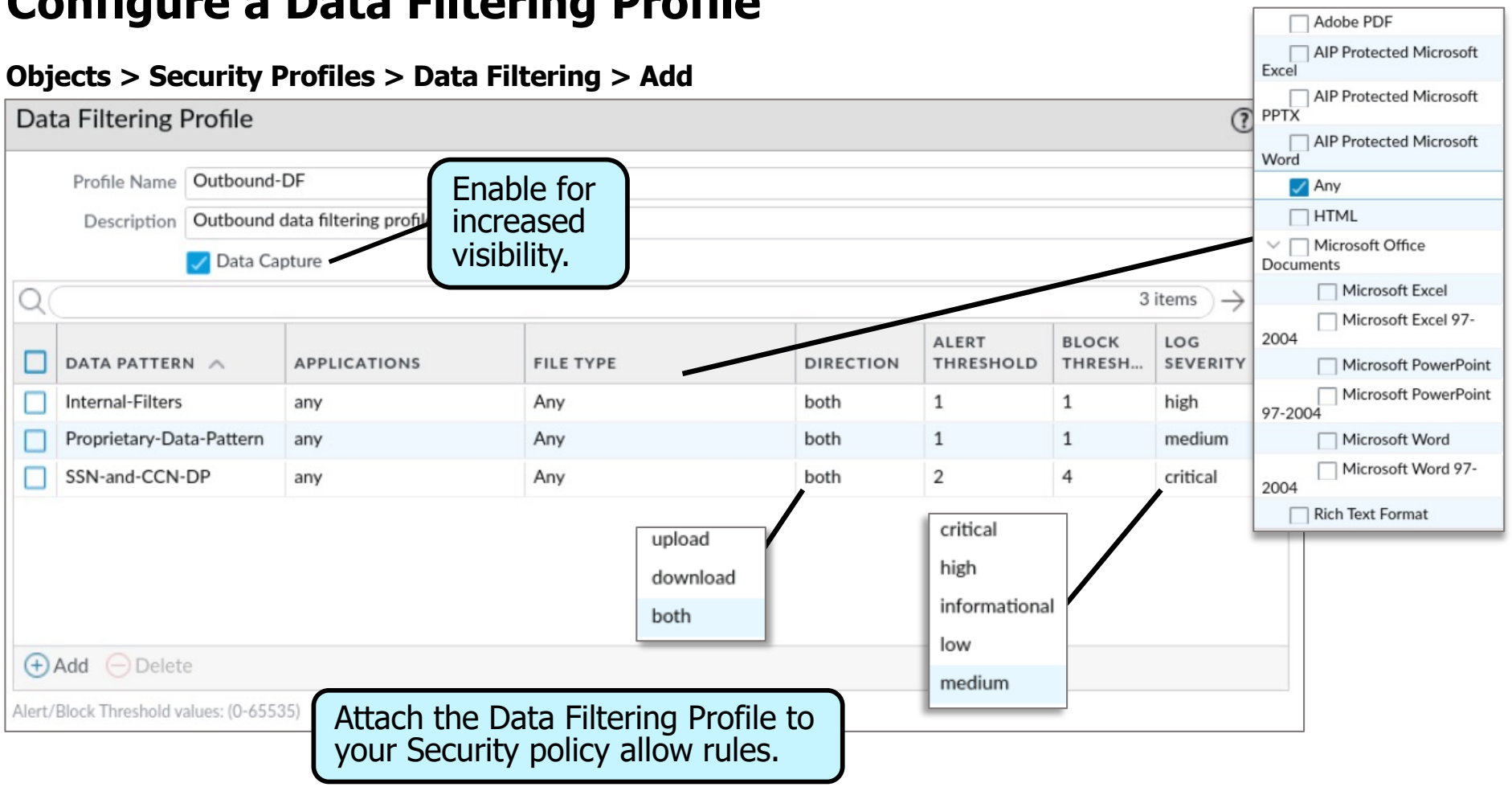
Configure Custom Data Patterns: File Properties

Objects > Custom Objects > Data Patterns > Add



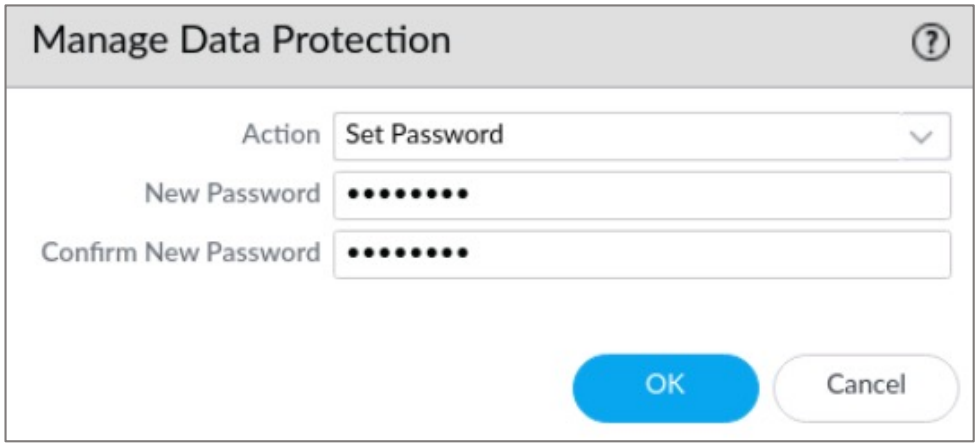
Configure a Data Filtering Profile

Objects > Security Profiles > Data Filtering > Add



Protect Access to Data Filtering Log Data

Device > Setup > Content-ID > Manage Data Protection

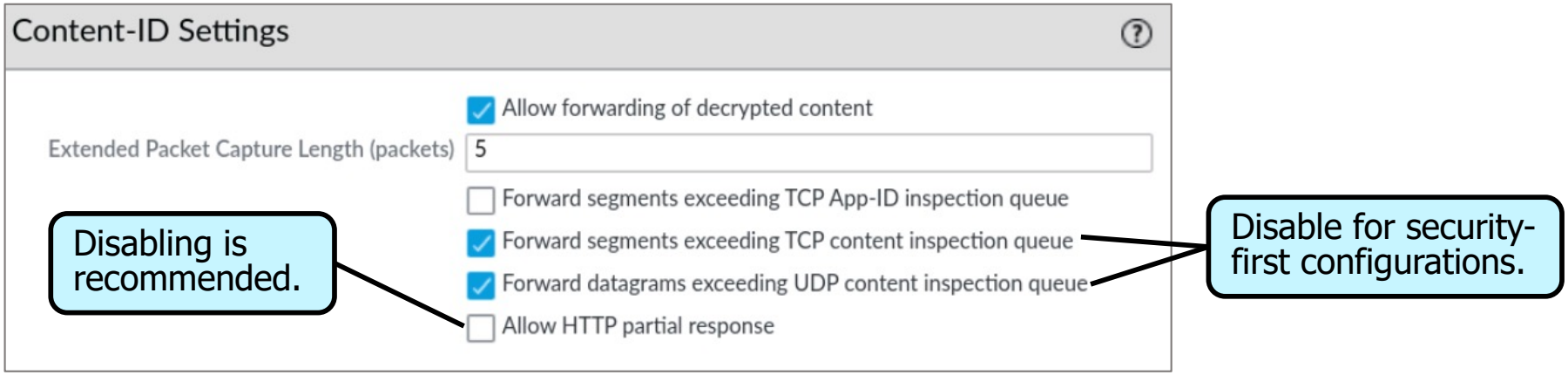


- Sensitive data (matched to a pattern) is contained in Data Filtering packet captures.
- You must password-protect packet capture data:
  - Minimum length of six characters
- If no password is configured, then no packet capture occurs.

Disable the HTTP "Accept-Ranges" Option

- HTTP Accept-Ranges option enables browsers to request partial data transfers.
- If data filtering is configured, disable **Allow HTTP partial response**.
- Prevents browsers from attempting to restart a terminated data transfer.

Device > Setup > Content-ID > Content-ID Settings



View the Data Filtering Log

Monitor > Logs > Data Filtering

		RECEIVE TIME	CATEGORY	FILE NAME	THREAT ID/NAME	FROM ZONE	TO ZONE	SOURCE ADDRESS	DESTINATION ADDRESS	TO PORT	APPLICATION	ACTION
		07/17 17:55:24	private-ip-addresses	webmail.php	Hypertext Preprocessor PHP File	Users_Net	Extranet	192.168.1.20	192.168.50.150	80	squirrelmail	alert
		07/17 17:55:16	private-ip-addresses	login.php	Hypertext Preprocessor PHP File	Users_Net	Extranet	192.168.1.20	192.168.50.150	80	web-browsing	alert
		07/17 17:51:58	computer-and-internet-info	04457f5911080bb0...	Unknown Binary File	Extranet	Internet	192.168.50.150	91.189.91.38	80	apt-get	alert

- Use log information to look for unauthorized data transfers.
- Which hosts are involved?
- Use the packet capture to see the sensitive data.
- Packet captures are password-protected:
  - Manage the password here.

Device > Setup > Content-ID

Inspect allowed traffic

Block threats detected by signatures

Control URL access

Block unauthorized file transfers

Detect unknown threats

Block sensitive data transfers

Security policy modifications

Configure Security Policy Rule Tags and Descriptions

- Create tags based on traffic direction.
- Tag your Security policy rules.
- Add a description to your rules.

Objects > Tags

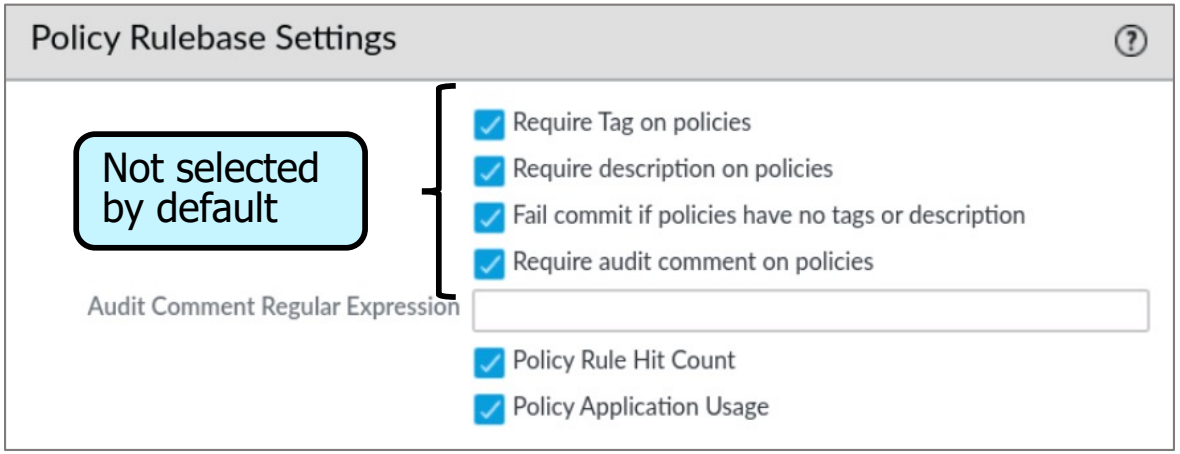
NAME	LOCATION	COLOR
Sanctioned	Predefined	Olive
empty	Predefined	
Users_Net		Yellow
Extranet		Orange
Internet		Blue
Danger		Red

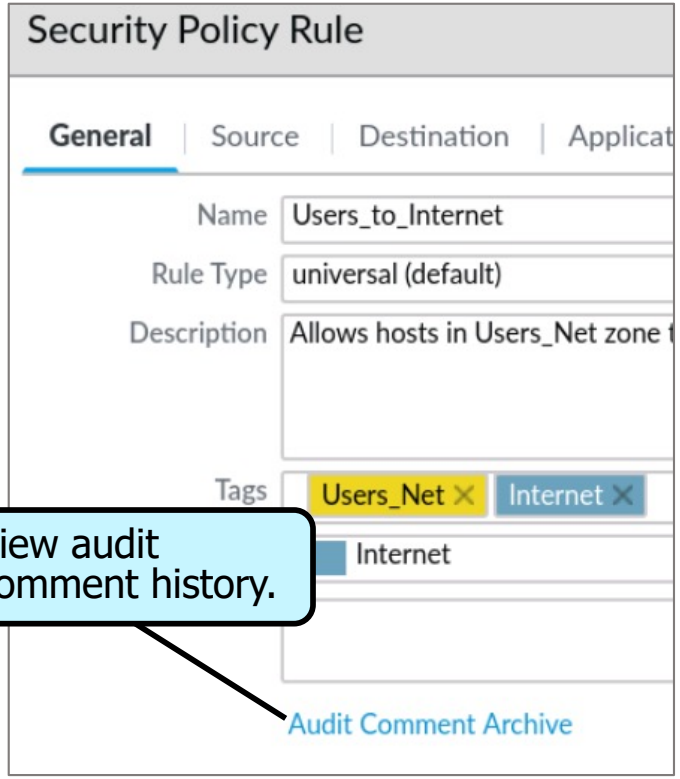
Policies > Security

	NAME	TAGS	TYPE	Source			Destination		APPLICATION	SERVICE	URL CATEGORY	ACTION
				ZONE	ADDRESS	USER	ZONE	ADDRESS				
1	Users_to_Extranet	Users_Net Extranet	universal	Users_Net	any	any	Extranet	any	any	any	any	Allow
2	Users_to_Internet	Users_Net Internet	universal	Users_Net	any	any	Internet	any	dns ping ssl web-browsing	application-default	any	Allow
3	Extranet_to_Internet	Extranet Internet	universal	Extranet	any	any	Internet	any	any	application-default	any	Allow

Force Use of Per-Rule Tag, Description, and Audit Comments

Device > Setup > Management > Policy Rulebase Settings





- Tags or descriptions displayed in columns in policies
- Audit comments displayed in rule configuration window

Configure Security Profile Groups

Objects > Security Profile Groups

NAME	LOCATION	ANTIVIRUS PROFILE	ANTI-SPYWARE PROFILE	VULNERABILITY PROTECTION PROFILE	URL FILTERING PROFILE	FILE BLOCKING PROFILE	DATA FILTERING PROFILE	WILDFIRE ANALYSIS PROFILE
Outbound-SG		Outbound-AV	Outbound-AS	Outbound-VP	Outbound-UF	Outbound-FB	Outbound-DF	Outbound-WF
Inbound-SG		Inbound-AV	Inbound-AS	Inbound-VP		Inbound-FB	Inbound-DF	Inbound-WF
Internal-SG		Internal-AV	Internal-AS	Internal-VP		Internal-FB	Internal-DF	Internal-WF

- Create three Security Profile groups:
  - outbound, inbound, internal
- This configuration *blocks* malware.
- **Note:** Only **outbound** includes a URL Filtering Profile.

Attach Security Policy Groups to Policy Rules

Attach *inbound*, *outbound*, and *internal* Security policy groups to rules.

Policies > Security

	NAME	TAGS	TYPE	Source			Destination		APPLICATION	SERVICE	URL CATEGORY	ACTION	PROFILE
				ZONE	ADDRESS	USER	ZONE	ADDRESS					
1	Users_to_Extranet	Users_Net Extranet	universal	Users_Net	any	any	Extranet	any	any	any	any	Allow	
2	Users_to_Internet	Users_Net Internet	universal	Users_Net	any	any	Internet	any	dns ping ssl web-brow...	application-default	any	Allow	

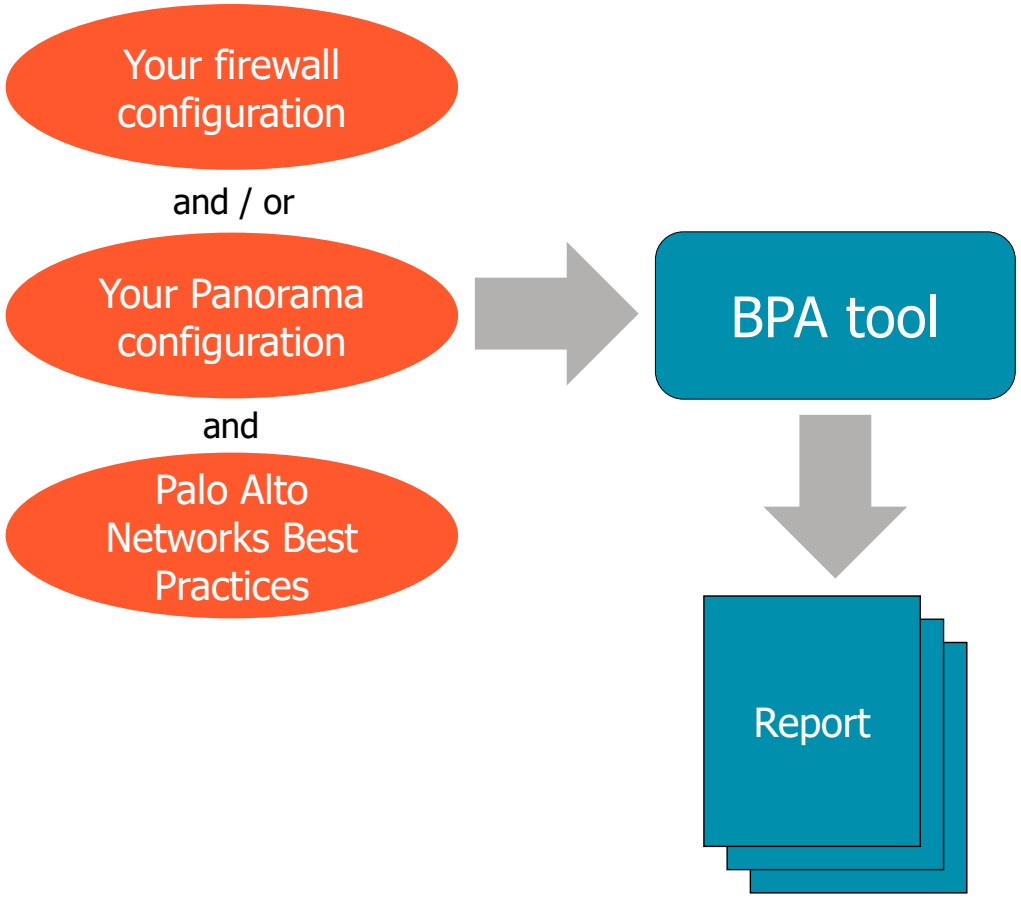
Optional Initial Configuration

Objects > Security Profile Groups

NAME	LOCATION	ANTIVIRUS PROFILE	ANTI-SPYWARE PROFILE	VULNERABILITY PROTECTION PROFILE	URL FILTERING PROFILE	FILE BLOCKING PROFILE	DATA FILTERING PROFILE	WILDFIRE ANALYSIS PROFILE
Outbound-SG		Alert-Only-AV	Alert-Only-AS	Alert-Only-VP	Alert-Only-UF	Alert-Only-FB	Alert-Only-DF	Alert-Only-WF
Inbound-SG		Alert-Only-AV	Alert-Only-AS	Alert-Only-VP		Alert-Only-FB	Alert-Only-DF	Alert-Only-WF
Internal-SG		Alert-Only-AV	Alert-Only-AS	Alert-Only-VP		Alert-Only-FB	Alert-Only-DF	Alert-Only-WF

- Alternate configuration if you are concerned about false positives:
  - Only sends malware *alerts*. It does *not* block malware.
- Use logs and reports to determine legitimate traffic.
- Later switch to Security Profile groups that block illegitimate traffic.

How Good Is Your Configuration?



- Palo Alto Networks provides the Best Practice Assessment tool.
- Compares your configuration to best practices
- Generates a report, makes recommendations
- Compares reports over time to track prevention feature adoption
- Available only for firewalls associated with your Support account

Module Summary

Now that you have completed this module, you should be able to:

- Identify methods to inspect allowed traffic for malicious content
- Block threats detected by known signatures
- Control access to URLs
- Block unauthorized file transfers
- Detect unknown threats
- Block the transfer of sensitive data
- Implement best-practice Security policy settings

Questions

Lab 18: Blocking Threats with Security Profiles

- Generate Traffic Without Security Profiles
- Modify Existing Security Profiles
- Create a Vulnerability Security Profile
- Create a File Blocking Profile
- Create Data Filtering Profiles
- Create a Security Profile Group
- Apply a Security Profile Group to Security Policy Rules
- Generate Attack Traffic with Security Profiles
- Create and Apply Tags
- Enforce Rule Tags and Description Requirements
- Test the Rule Requirements

Protecting our digital way of life.