

ASM Deployment

diagram_05.png

API Security

Manual Chapter v13.1.0: [Implementing Web Services Security](#)

Manual Chapter v13.1.0: [Creating Parent and Child Security Policies](#)

Fundamental, Enhanced, Comprehensive

Fundamental = Grundlegend

Enhanced = Verbessert

Comprehensive = Umfassend

The following is from the v12 UI (Security - Application Security : Policy Building : Learning and Blocking Settings, Policy Type)

Fundamental	Enhanced Fundamental plus:	Comprehensive Enhanced plus:
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<ul style="list-style-type: none"> • HTTP Protocol Compliance • Evasion Techniques • Learn New File Types + Lengths • Learn New Parameters in selective mode at Global level • Methods • Attack Signatures • Request length exceeds defined buffer size • Host Names • Failed to convert character • Learn New Redirection Domains • Bad WebSocket handshake request • Failure in WebSocket framing protocol • Mask not found in client frame • Null character found in WebSocket text message • Illegal websocket frame length • Illegal number of frames per message • Illegal binary message length • Illegal WebSocket extension 	<ul style="list-style-type: none"> • Learn New URLs in selective mode + Meta Characters • Learn New Parameters in selective mode + Lengths, at Global level • Learn New Cookies • Content Profiles • Bad WebSocket handshake request • Failure in WebSocket framing protocol • Mask not found in client frame • Null character found in WebSocket text message • Illegal websocket frame length • Illegal number of frames per message • Illegal binary message length • Illegal WebSocket extension • Illegal cross-origin request • Plain text data does not comply with format settings 	<ul style="list-style-type: none"> • Learn New URLs + Meta Characters, Classify Request Content • Learn New Parameters + Lengths, at URL level, Classify Value Content • Parameter Meta Characters • Dynamic Parameters: Using Statistics • CSRF URLs • Header Length • Cookie Length • Bad WebSocket handshake request • Failure in WebSocket framing protocol • Mask not found in client frame • Null character found in WebSocket text message • Illegal websocket frame length • Illegal number of frames per message • Illegal binary message length • Illegal WebSocket extension • Illegal cross-origin request • Plain text data does not comply with format settings • Binary content found in text only WebSocket • Text content found in binary only WebSocket
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<https://devcentral.f5.com/questions/asm-confusion-about-wildcard-selective-all-entities-49185>

-> “Add All Entities Creates a comprehensive whitelist policy that includes all web site entities”

Learning Schemes to build a policy

- **Never (wildcard only)**, when false positive occur the system will suggest to relax the settings of the wildcard entity.
- **Selective** is that only entity (Parameter name/value, URL etc) that exceeds the Wildcard setting would generate learning suggestion and those learning suggestion are accepted by administrator entity will get included in security policy.
 - Selective mode offers intermediate protection between Never (Wildcard Only) and Add All Entities.

- Selective mode is suitable for applications containing entities which use similar or identical attributes.
- Ideally, when you know the policy is mature, you can remove the wildcard
- **Add All Entities**, you will see a suggestion to add an entity by name

BIG-IP ASM Policy Builder updates

BIG-IP 13.0

Updates to Policy Builder in BIG-IP 13.0 include the following enhancements:

- **Compact mode** is an entity learning mode designed to effectively manage high traffic loads and increase policy security.
 - Compact mode reduces the amount of learning suggestions, enabling a policy to converge more quickly, and automatically adds disallowed file types.
 - Compact mode will never removing the wildcard.
- **Server Technologies** is an option that customizes policies to an application. This option enables Policy Builder to identify the back-end technologies used by an application and add the relevant signatures to the policy.
- **Client Reputation** is a technique that improves learning suggestions by using behavioral analysis to assign a reputation score to a source IP or device ID. Policy Builder ignores sources classified as malicious and speeds learning on sources classified as benign.

BIG-IP 12.0

There are several updates to Policy Builder in BIG-IP 12.0, including the following:

- Staging, enforcement, and learning suggestions can be configured manually or by the BIG-IP ASM system.
- Security checks Learn, Alarm, and Block are now system-wide settings integrated with Policy Builder.
- An improved learning suggestions mechanism handles requests, with or without violations, for manual and automated policy building.

Links

- [Using Rapid Deployment](#)
- [BIG-IP Application Security Manager Operations Guide](#)
- [Use ASM for Block Page Example](#)
- [DevCentral: F5 ASM deployment for production traffic in transparent mode](#)
- [DevCentral: Lightboard Lessons: BIG-IP ASM Policy Buildin](#)
- [DevCentral: Different Blocking pages for different violation?](#)

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