



## FQDN Objects

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### FQDN Match Object

An FQDN (Fully Qualified Domain Name) Match Object evaluates the SNI (Server Name Indication) associated with TLS-encrypted traffic and uses the results of the evaluation for rule matching. If traffic matches all match objects (Address, FQDN, Service) associated with a rule, then the rule will be used for processing the traffic. In order to evaluate the FQDN, traffic must be TLS encrypted and contain an SNI in a TLS hello header. The FQDN can be evaluated for traffic that is processed by either a **Forwarding** or **Forward Proxy** rule. The set of FQDNs in the profile can be specified as strings representing the full domain or as strings represented by a Perl Compatible Regular Expression (PCRE).



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**Note** The FQDN match object is organized as a table containing user-specified rows (FQDNs).

The limits for each FQDN match object are as follows:

- Maximum user-specified rows: 254 (Standalone or Group of Standalones)
- Maximum FQDNs per row: 60
- Maximum FQDN character length: 255

When specifying a multi-level domain (e.g., `www.example.com`), it's important to escape the `.` character (for example, `www\.example\.com`) otherwise it will be treated as a wildcard for any single character.

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### Standalone vs. Group

A FQDN Match Object can be specified as Type Standalone or Group.

A FQDN Match Standalone Object contains FQDNs. The Object will be applied directly to a set of one or more Policy Ruleset Rules or associated with a FQDN Match Group Object.

A FQDN Match Group Object contains an ordered list of Standalone FQDN Objects that can be defined for different purposes and combined together into a Group Object. The Group Object can be applied directly to a set of one or more Policy Ruleset Rules. Each team can create and manage specific Standalone Profiles. These Standalone Profiles can be combined together into a Group Profile to create hierarchies or different

combinations based on use case. An example combination could be a global FQDN list that would apply to everything, a CSP-specific list that would apply to each different CSP, and an application-specific list that would apply to each different application.

## Create Standalone FQDN Match Object

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- Step 1** Navigate to **Manage > Security Policies > FQDNs**.
  - Step 2** Click **Create**.
  - Step 3** Provide a Profile Name and Description.
  - Step 4** Specify the Type as Standalone.
  - Step 5** Click **Add** to create a new row.
  - Step 6** Specify individual FQDNs (e.g., www.twitter.com, \*.google.com)
    - a) Each FQDN is specified as a PCRE (Perl Compatible Regular Expression).
    - b) Consider escaping the . character else it will be treated as a single character wildcard.
  - Step 7** (Optional) Specify Decryption Exception for any FQDNs where decryption is not desired or possible. Possible reasons for considering Decryption Exception include:
  - Step 8** Desire to not inspect encrypted traffic (financial services, defense, health care, etc.).
  - Step 9** SSO authentication traffic where decryption is not possible.
  - Step 10** NTLM traffic that cannot be proxied.
  - Step 11** Click **Save** when completed.
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## Create Group FQDN Match Object

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- Step 1** Navigate to **Manage > Security Policies > FQDNs**.
  - Step 2** Click **Create**.
  - Step 3** Provide a Profile Name and Description.
  - Step 4** Specify the Type as Group.
  - Step 5** Select an initial Standalone Profile (at least one Standalone Profile is required).
  - Step 6** Specify additional Standalone Profiles.
  - Step 7** Click **Add FQDN Profile** to create a new row.
  - Step 8** Select a Standalone Profile.
  - Step 9** Click **Save** when completed.
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## Associate the Object

Check [this document](#) to create/edit Policy Rules.