HTTP Request Policy

Avi Technical Reference (v20.1)

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HTTP Request Policy

HTTP request policies allow manipulation of HTTP requests. These requests may be modified before they are forwarded to the server, used as a basis for content switching, or discarded. The HTTP request policies may only be applied to a layer 7 virtual service configured with an HTTP profile. The table below lists the match criteria available under HTTP request, as well as the actions that can be configured to occur upon a match being made.

Note: Starting with release 18.1.2, this feature is supported for IPv6 in Avi Vantage.

Match	
	Client IP: Client IP address or a group of client addresses. - Use a "-" to specify a range: 10.0.0.0-10.1.255.255 - Use a "/" to specify a netmask: 10.0.0.0/24 - Use a pre-defined IP group, which can be based on geo-location. Note: Client IP address in IPv6 address format can also be used in Avi Vantage release 18.1.2. **Service Port:** The ports the virtual service is listening on. **Protocol Type:** HTTP or HTTPS. Example: *https://www.avinetworks.com/marketing/index.html?a=1&b=2* **HTTP Method:** The method used by the client request. The match is true if any one of the methods that an administrator specifies is true. The options available are GET, HEAD, POST, PUT, DELETE, OPTIONS, TRACE, and CONNECT. Starting with Avi Vantage release 18.2.3, you can also choose from the additional options: PATCH, PROPFIND, PROPPATCH, MKCOL, COPY, MOVE, LOCK, and UNLOCK. **HTTP Version:** True if the client version is .9, 1.0, or 1.1 **Path:** The path or a group of paths. In accordance with RFC 3986, a `path` is empty or starts with a forward slash. For the `beginswith` and `equals` match operators in an HTTP request match policy, the match string needs to begin with a forward slash to result in a match. Example: In *https://www.avinetworks.com/marketing/index.html?a=1&b=2* the path is /marketing/index.html.

Query: A query or a group of queries. Do not add the leading ??? or ?&? characters to a match. Example: *https://www.avinetworks.com/marketing /index.html?a=1&b=2*

Headers: True if a header exists, or if it exists and contains a specified value

Cookie: True if a cookie exists, or if it exists and contains a specified value

Host Header: The request?s host header. Example: *https://www.avinetworks.com/marketing /index.html?a=1&b=2*

Redirect URL: Redirects a client to a different protocol, port, host, or path. By default the host, path, and query are not altered unless an administrator populates those fields. The path field does not require a leading ?/? slash character. To create a simple HTTP to HTTPS redirect, simply set the protocol to HTTPS. NOTE: The redirect action may not be stacked with other actions.

Modify Header: Allows adding, replacing, or removing of an HTTP header or cookie.

Rewrite URL: Similar to ProxyPass functionality, this action allows for the client?s requested URL to be rewritten into a URL that the server understands. For instance, the client should use *www.avinetworks.com /sales*, while the server may be configured for *sales.avinetworks.com*. The path field does not require a leading "/" slash character.

Content Switch: Forward matched requests to a pool, or a specific server with that pool. Alternatively, Avi Vantage can serve an HTTP response using HTTP status code 200 (success), 403 (unauthorized), 404 (file not found), or 429 (too many requests). A default page is sent for each of these status codes, or a custom html file may uploaded.