

HTTP(s) Test Script Recorder

Purpose:

Tool for recording HTTP/HTTPS requests made by a browser or application.

Port:

The port number JMeter uses to listen to browser or application traffic.

HTTPS Domains:

Capture request sent to only specified domains.

Target Controller:

Defined Where the recorded samples will be stored

Groupings:

Determines how the requests are organized in the Recording Controller

(e.g., Group by Thread Group or Store all recordings in a single group).

Capture HTTP Headers:

To record HTTP headers, which can be useful for simulating exact requests.

Add Assertions:

Automatically adds Response Assertions to the recorded samples. It is helpful for validating responses.

Regex Matching (Regular Expression Matching):

Filter which HTTP requests should be recorded based on patterns.

Allows you to include or exclude specific requests during the recording process.

HTTP Sampler Settings

Transaction Name

- **Purpose:** Allows you to group a series of HTTP requests into a single transaction.
- **Use:** When enabled, the selected requests are wrapped in a Transaction Controller, which records the total time for all requests within that transaction. This is useful for measuring the time taken for a specific user action (e.g., fund transfer) that involves multiple requests.

Naming Scheme:

- **Purpose:** Defines how the recorded HTTP requests will be named.
- **Use:** You can customize the names of recorded requests using a predefined pattern or scheme

Counter Start Value:

- **Purpose:** Sets the initial value for the counter used in the naming scheme.
- **Use:** If you choose to use a counter in your naming scheme (e.g., Request_1, Request_2), this option lets you specify the starting number. This is useful for ensuring unique names when recording multiple sets of transactions or when continuing a recording session.

Create New Transaction After Request (ms):

- **Purpose:** Automatically creates a new transaction after a specified idle time between requests.

- **Use:** This setting helps to logically group requests into separate transactions if there's a significant delay (in milliseconds) between them.

For example, if you set this to 1000 ms (1 second), JMeter will start a new transaction if there is a delay of more than 1 second between two requests, helping to segment the recording into meaningful user actions.

Recordings Default Encoding:

- **Purpose:** Specifies the default character encoding used for the recorded HTTP requests.
- **Use:** This is important when dealing with non-ASCII characters or special characters in request parameters. Setting the correct encoding (e.g., UTF-8) ensures that the recorded data is correctly interpreted and sent by the server.

Retrieve All Embedded Resources :

- **Purpose:** Automatically fetches all resources (e.g., images, CSS, JavaScript) referenced by the HTML page.
- **Use:** Useful for testing the performance of loading a full webpage, including all its embedded resources.

Redirect Automatically :

- **Purpose:** Controls whether JMeter should automatically follow HTTP redirects during recording.
- **Use:** When this option is enabled, JMeter automatically follows redirects without recording the intermediate redirect responses. This is useful when you want to streamline your test plan and avoid cluttering it with unnecessary intermediate requests.

Follow Redirects :

- **Purpose:** Determines whether JMeter should automatically follow HTTP redirects.
- **Use:** If enabled, JMeter will follow the redirects that the server sends, such as 301 or 302 responses, and request the new location.

Use KeepAlive:

- **Purpose:** Controls whether the HTTP Keep-Alive header is used.
- **Use:** If enabled, it keeps the connection to the server open, which can improve performance by reducing the overhead of establishing new connections for each request.

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Type Dropdown Box:

- **Purpose:** Selects the type of sampler to use for the recording.

The **Type** dropdown box in the **HTTP(S) Test Script Recorder** provides two options for selecting the HTTP protocol implementation used by JMeter to send requests: **HTTPClient4** and **Java**. Here's what each option means:

1. HTTPClient4

- **Purpose:** Uses the Apache HttpClient library (version 4.x) to handle HTTP requests.
- **Use:**
 - **Compatibility:** It is the most commonly used implementation and is compatible with most scenarios.

Java

- **Purpose:** Uses the default Java HttpURLConnection class to handle HTTP requests.

Compatibility: May be more compatible with older or simpler test scenarios, or when specific Java features are required.

Detect GraphQL Request:

- **Purpose:** Identifies and handles GraphQL requests during the recording.
- **Use:** When enabled, JMeter attempts to detect requests that are using the GraphQL query language and records them accordingly. This is particularly useful for modern web applications that rely on GraphQL for API communication, allowing you to properly capture and test these requests.

Request Filtering:

Exclude certain types of requests that are not critical to the performance test.

These typically include static resources like images, stylesheets, and scripts that don't impact the functionality you're testing.