

CSV Dataset Config Element and Login Scenario

CSV Dataset Config Element

- **CSV Dataset Config** element is used to supply data to JMeter variables from an external csv file and allows to achieve **Data Driven Testing**.
- Data Driven Testing can be used for login scenarios for username and password, product IDs, URL's etc. depending on the scenario.
- Using different data adds randomness to the scenario.
- Same CSV file can be used to supply data for all threads or a separate file for each thread can be created.
- All threads use separate row data from CSV file, starting from line 1.
- **Random CSV Dataset Config** is an additional plugin that you can import using Plugins Manager. The element gets records from the csv file in random order.

Login Scenario

1. Use the Pet store scenario.
2. Create a csv file with credentials for the users.
3. Add a CSV Data config element to the Pet Store application test script under Test Plan.
4. In the CSV Data config element, browse the csv file for the file name.

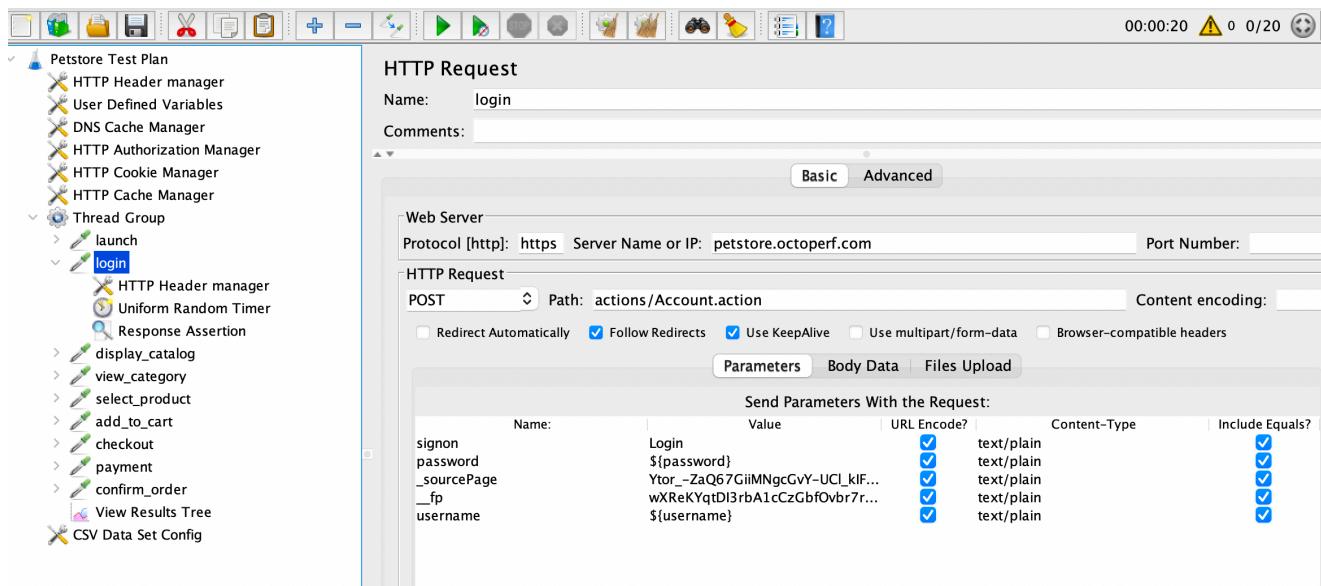
The screenshot shows the JMeter interface with the 'Petstore Test Plan' selected in the left tree view. A 'CSV Data Set Config' element is highlighted at the bottom of the tree. The main panel displays the 'CSV Data Set Config' configuration dialog. The 'Name:' field is set to 'CSV Data Set Config'. Under 'Configure the CSV Data Source', the 'Filename:' field contains 'credentials.csv', and the 'Variable Names (comma-delimited):' field contains 'username,password'. Other settings include 'Ignore first line (only used if Variable Names is not empty):' set to 'True', 'Delimiter (use '\t' for tab):' set to ',', 'Allow quoted data?:' set to 'False', 'Recycle on EOF ?:' set to 'True', 'Stop thread on EOF ?:' set to 'False', and 'Sharing mode:' set to 'All threads'. The top status bar shows '00:00:20' and '0/20' errors.

credentials

| username | password |
|----------|----------|
| j2ee | j2ee |
| xxxxxx | xxxxxx |
| j2ee | j2ee |

CSV Dataset Config Element

1. Add a Response Assertion to the login request and set the assertion as Text Response contains “Welcome” keyword.
2. Enter **`${username}`** and **`${password}`** for the variable names of the login request. Each column in the csv file, we must have a corresponding variable name in CSV Data Set Config
3. Run the test script and view the results.



Login - Test Results

Since the second username and password is invalid, for the login requests using the second username and password is displayed as **failed** in the View Results Tree listener.

The screenshot shows the JMeter interface with the 'View Results Tree' listener selected. The left sidebar displays the test plan structure under 'Petstore Test Plan'. A 'Thread Group' named 'login' is expanded, showing various sampler steps: 'HTTP Header manager', 'Uniform Random Timer', 'Response Assertion', 'display_catalog', 'view_category', 'select_product', 'add_to_cart', 'checkout', 'payment', and 'confirm_order'. The 'View Results Tree' step is also listed. The main panel shows the 'View Results Tree' configuration with 'Name: View Results Tree' and 'Comments:'. Below this, there are options for 'Write results to file / Read from file' and a 'Filename' input field. The 'Sampler result' tab is active, displaying a 'Sign In' form with an error message: '• Invalid username or password. Signon failed.' It also shows fields for 'Username' and 'Password' with placeholder text '*****'. The 'Request' and 'Response data' tabs are also visible.

credentials

| username | password |
|----------|----------|
| j2ee | j2ee |
| xxxxxx | xxxxxx |
| j2ee | j2ee |