

Token based authentication

vREST supports any type of token based authentication. In the login API, authentication token can be returned from the test server as part of one of the following:

1. Response Body
2. Response Header

So, to use token based authentication, simply follow the steps below:

1. First create a test case to login into test application. As a result, your test application will send the token as part of the response body / header.
2. You need to extract this token in a variable in the `Variable Extractor` tab of login test case. Below are some examples of extracting tokens from response body / header.
3. Now you can use this token variable (`{{token}}`) in subsequent test cases as per your API format.

Extracting authentication token from Response Body:

Suppose your login API returns the following response on submitting valid credentials:

```
{
  "output": {
    "token": "xyz-authentication-token"
  }
}
```

Then you may extract this token via Variable Extractor sub-tab of login test case, as shown in the below snapshot:

The screenshot shows the 'Variable Extractor' tab of a test case titled '1. Login to Test Application'. The request is a POST to 'http://example-application.com/login'. The interface includes tabs for 'Details', 'Request', 'Response Validation', 'Results', and 'Variable Extractor'. Under 'Variables from API Response', there is a table with columns 'Name' and 'JSON Path / XML Path / Utility Method'. One entry is visible: 'token' with the path 'output.token'. A 'Note' box at the bottom provides instructions on defining JSON paths, X-Paths, and Utility methods, and states that these variables are available in subsequent test cases within a test run.

Name	JSON Path / XML Path / Utility Method
token	output.token

Note:

- For defining JSON path, follow the [guide](#).
- For defining X-Path for XML, follow the [guide](#).
- For defining Utility method, follow the [guide](#).
- These variables will be available in all subsequent test Cases within a test run.

Extracting authentication token from Response header:

Suppose your login API returns the authentication token as part of response headers (Response header `x-auth-token`) on submitting valid credentials. Then you may extract this token via Variable Extractor sub-tab of login test case with the help of a built-in utility method `getHeader`, as shown in the below snapshot:

1. Login to Test Application
POST http://example-application.com/login

Details Request Response Validation Results Variable Extractor

Variables from API Response Variables from Results

New Delete Help

<input type="checkbox"/>	Name	JSON Path / XML Path / Utility Method
<input type="checkbox"/>	token	{{getHeader("x-auth-token")}}
<input type="checkbox"/>		

Note:

- For defining JSON path, follow the [guide](#).
- For defining X-Path for XML, follow the [guide](#).
- For defining Utility method, follow the [guide](#).
- These variables will be available in all subsequent test Cases within a test run.

here "x-auth-token" is the name of the response header which carries the authentication token. Please replace this header name with appropriate header name as per your context.