

# Handling Authentication: Rest Assured

For API Testing & Automation

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# Authentication

Basic Authentication

Digest Authentication

Form Authentication

OAuth

Multi-part form data

# Basic Authentication

## Basic Authentication

```
given().auth()  
  .basic("un", "pw")  
  .when()  
  .get("getMessage")  
  .then()  
  .assertThat()  
  .statusCode(HttpStatus.OK.value());
```

## Preemptive Basic Authentication

```
given().auth()  
  .preemptive().basic("un", "pw")  
  .when()  
  .get("getMessage")  
  .then()  
  .assertThat()  
  .statusCode(HttpStatus.OK.value());
```

# Digest Authentication

```
given()  
  .auth().digest("username", "password")  
  .when()  
  .get("/getMessage")  
  .then()  
  .assertThat()  
  .statusCode(HttpStatus.OK.value());
```

# Form Authentication

Form auth is associated with a user filling out his credentials (username and password) on a webpage and then pressing a login button of some sort. HTML look like below,

```
<html>
<head>
  <title>Login</title>
</head>

<body>
  <form action="formLogin" method="POST">
    <table>
      <tr><td>User:&nbsp;</td><td><input type='text' name='un'></td></tr>
      <tr><td>Password:</td><td><input type='password' name='pw'></td></tr>
      <tr><td colspan='2'><input name="submit" type="submit"/></td></tr>
    </table>
  </form>
</body>
</html>
```

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What happens when form authentication is used like this in REST Assured an additional request have to made to the server in order to retrieve the webpage with the login details. REST Assured will then try to parse this page and look for two input fields as well as the form action URI.

```
given().auth()
    .form(
        "<ENTER_UN>",
        "<ENTER_PW>",
        new FormAuthConfig("/formLogin", "un", "pw"))
    .when()
    .get("/formAuth")
    .then()
    .assertThat()
    .statusCode(200);
```

# CSRF

To enable CSRF support

```
given().  
    auth().form("un", "PW", formAuthConfig().withAutoDetectionOfCsrf()).  
    when().  
    get("/formAuth");  
then().  
    statusCode(200);
```

To supply the CSRF field name

```
given().  
    auth().form("un", "PW", springSecurity().withCsrfFieldName("_csrf")).  
    when().  
    get("/formAuth");  
then().  
    statusCode(200);
```

# OAuth Support

## OAuth 1.0a

```
given().accept(ContentType.JSON)
    .auth()
    .oauth(consumerKey, consumerSecret, accessToken, tokenSecret)
    .when()
    .get("/fundootesters/course")
    .then()
    .statusCode(200);
```

## OAuth 2.0

```
given().accept(ContentType.JSON)
    .auth()
    .oauth2(accessToken)
    .when()
    .get("/fundootesters/course")
    .then()
    .statusCode(200);
```



**If you are keen for API testing and automation, Checkout No Code automation platform : <https://testsigma.com> for**

- Reusability
- Easy and simple to start with
- No extra plugins or Library Needed.
  - Low learning curve.
  - Faster Test Automation
  - Easy maintenance.
- Easily integrated with CI/CD.

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