## 1. Basic Authentication

### Used when the server expects a ****username and password****.

import io.restassured.RestAssured;

import io.restassured.response.Response;

public class BasicAuthExample {

public static void main(String[] args) {

RestAssured.baseURI = "https://example.com/api";

Response response = RestAssured

.given()

.auth().basic("username", "password")

.when()

.get("/users");

System.out.println(response.getStatusCode());

System.out.println(response.prettyPrint());

}

}

### You can use the same .auth().basic() for POST, PUT, DELETE:

#### POST

.given()

.auth().basic("username", "password")

.header("Content-Type", "application/json")

.body("{ \"name\": \"John\" }")

.when()

.post("/users");

#### PUT

.given()

.auth().basic("username", "password")

.header("Content-Type", "application/json")

.body("{ \"name\": \"Updated Name\" }")

.when()

.put("/users/1");

#### DELETE

.given()

.auth().basic("username", "password")

.when()

.delete("/users/1");

## 2. API Key Authentication

### Used when the API requires an ****API key in the header or query param****.

### a) ****Header-based API Key****

Response response = RestAssured

.given()

.header("x-api-key", "your\_api\_key\_here")

.when()

.get("https://example.com/api/users");

### b) ****Query Param-based API Key****

Response response = RestAssured

.given()

.queryParam("api\_key", "your\_api\_key\_here")

.when()

.get("https://example.com/api/users");

#### Use for POST

.given()

.header("x-api-key", "your\_api\_key\_here")

.header("Content-Type", "application/json")

.body("{ \"name\": \"API User\" }")

.when()

.post("/users");

#### PUT

.given()

.header("x-api-key", "your\_api\_key\_here")

.body("{ \"name\": \"Updated API User\" }")

.when()

.put("/users/1");

#### DELETE

.given()

.header("x-api-key", "your\_api\_key\_here")

.when()

.delete("/users/1");

## 3. Bearer Token (OAuth 2.0)

### Used when the server expects a ****Bearer token**** in the Authorization header.

Response response = RestAssured

.given()

.header("Authorization", "Bearer your\_access\_token\_here")

.when()

.get("https://example.com/api/users");

#### POST

.given()

.header("Authorization", "Bearer your\_access\_token\_here")

.header("Content-Type", "application/json")

.body("{ \"name\": \"Bearer User\" }")

.when()

.post("/users");

#### PUT

.given()

.header("Authorization", "Bearer your\_access\_token\_here")

.header("Content-Type", "application/json")

.body("{ \"name\": \"Updated Bearer User\" }")

.when()

.put("/users/1");

#### DELETE

.given()

.header("Authorization", "Bearer your\_access\_token\_here")

.when()

.delete("/users/1");