# JWT-handson

**Create authentication service that returns JWT**

The endpoint: /authenticate, should be protected and only accessible to authenticated users. This is the first step of JWT integration.

# CURL Command (Testing)

Command:  
curl -s -u user:pwd http://localhost:8090/authenticate  
  
Expected Response:  
{"token":""} (In future, this will be a valid JWT token)  
  
Expected Log:  
Authorization: Basic dXNlcjpwd2Q=

# AuthenticationController.java

package com.cognizant.spring\_learn.controller;  
  
import org.slf4j.Logger;  
import org.slf4j.LoggerFactory;  
import org.springframework.web.bind.annotation.GetMapping;  
import org.springframework.web.bind.annotation.RequestHeader;  
import org.springframework.web.bind.annotation.RestController;  
  
import java.util.HashMap;  
import java.util.Map;  
  
@RestController  
public class AuthenticationController {  
  
 private static final Logger LOGGER = LoggerFactory.getLogger(AuthenticationController.class);  
  
 @GetMapping("/authenticate")  
 public Map<String, String> authenticate(@RequestHeader("Authorization") String authHeader) {  
 LOGGER.info("START - authenticate()");  
 LOGGER.debug("Authorization Header: {}", authHeader);  
  
 Map<String, String> map = new HashMap<>();  
 map.put("token", "");  
  
 LOGGER.info("END - authenticate()");  
 return map;  
 }  
}

# SecurityConfig.java (update)

@Override  
protected void configure(HttpSecurity httpSecurity) throws Exception {  
 httpSecurity.csrf().disable()  
 .authorizeRequests()  
 .antMatchers("/countries").hasRole("USER")  
 .antMatchers("/authenticate").hasAnyRole("USER", "ADMIN")  
 .anyRequest().authenticated()  
 .and().httpBasic();  
}

# Postman Response (Preview)

URL: http://localhost:8090/authenticate  
Method: GET  
Authorization: Basic Auth (user/pwd)  
  
Response Body:  
{  
 "token": ""  
}

# Conclusion

This hands-on demonstrates how to set up the base authentication REST endpoint in Spring Boot.  
The endpoint reads HTTP Basic Auth headers, logs the credentials securely, and returns an empty JWT token response (placeholder).  
Further steps will include validating the user and generating the actual JWT.