

WEEK 4

Create authentication service that returns JWT

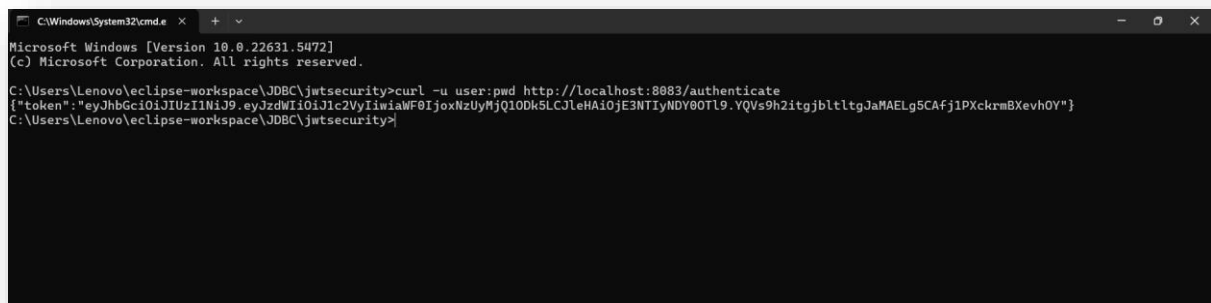
As part of first step of JWT process, the user credentials needs to be sent to authentication service request that generates and returns the JWT.

Ideally when the below curl command is executed that calls the new authentication service, the token should be responded. Kindly note that the credentials are passed using -u option.

Request:

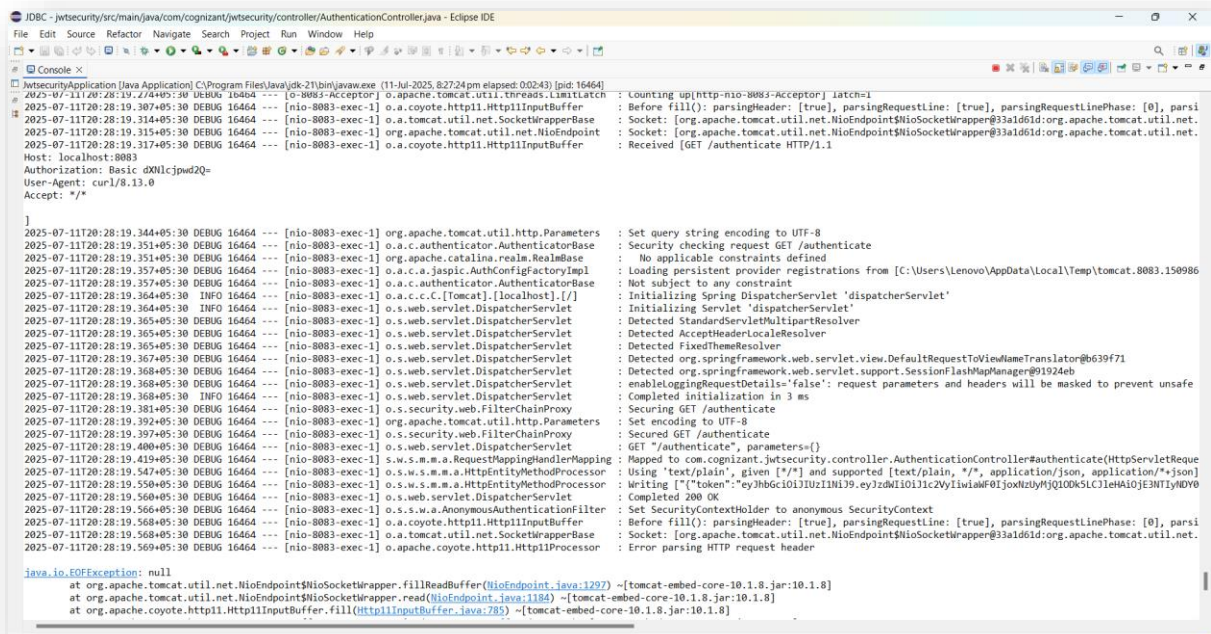
curl -s -u user:pwd <http://localhost:8090/authenticate>

IN CMD:



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22631.5472]
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C:\Users\Lenovo\workspace\JDBC\jwtsecurity>curl -u user:pwd http://localhost:8090/authenticate
{"token":"eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJlc2VyaWwif0i0K0k5LjEhAiojE3NTIyNDY8OTL9.YQVs9h2itgjb1tltgJaMAELg5CAfj1PXckrmBXevh0Y"}
C:\Users\Lenovo\workspace\JDBC\jwtsecurity>
```



```
JDBC - jwtsecurity/src/main/java/com/cognizant/jwtsecurity/controller/AuthenticationController.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Console
JwtSecurityApplication [Java Application] C:\Program Files\Java\jdk-21\bin\java.exe (11-Jul-2025, 8:27:24pm elapsed: 0:02:43) [pid: 16464]
2025-07-11T20:28:19.274+05:30 DEBUG 16464 --- [o-8083-acceptor] o.apache.tomcat.util.threads.LimitLatch : Counting up (http-nio-8083-acceptor) latch=1
2025-07-11T20:28:19.307+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.a.coyote.http11.Http11InputBuffer : Before fill(): parsingHeader: [true], parsingRequestLine: [true], parsingRequestLinePhase: [0], parsingRequestLinePhase: [0], parsingRequestLinePhase: [0]
2025-07-11T20:28:19.314+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.a.tomcat.util.net.SocketWrapperBase : Socket: [org.apache.tomcat.util.net.NioEndpoint$NioSocketWrapper@33a1d61d:org.apache.tomcat.util.net.
2025-07-11T20:28:19.315+05:30 DEBUG 16464 --- [nio-8083-exec-1] org.apache.tomcat.util.net.NioEndpoint : Socket: [org.apache.tomcat.util.net.NioEndpoint$NioSocketWrapper@33a1d61d:org.apache.tomcat.util.net.
2025-07-11T20:28:19.317+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.a.coyote.http11.Http11InputBuffer : Received [GET /authenticate HTTP/1.1]

Host: localhost:8083
Authorization: Basic dXNlcjpwd2Q=
User-Agent: curl/7.8.13.0
Accept: /*

}
2025-07-11T20:28:19.344+05:30 DEBUG 16464 --- [nio-8083-exec-1] org.apache.tomcat.util.http.Parameters : Set query string encoding to UTF-8
2025-07-11T20:28:19.351+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.a.c.authenticator.AuthenticatorBase : Security checking request GET /authenticate
2025-07-11T20:28:19.351+05:30 DEBUG 16464 --- [nio-8083-exec-1] org.apache.catalina.realm.RealmBase : No applicable constraints defined
2025-07-11T20:28:19.357+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.a.c.a.jaspic.AuthConfigFactoryImpl : Loading persistent provider registrations from [C:\Users\Lenovo\AppData\Local\Temp\tomcat.8083.156986
2025-07-11T20:28:19.357+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.a.c.authenticator.AuthenticatorBase : Not subject to any constraint
2025-07-11T20:28:19.364+05:30 INFO 16464 --- [nio-8083-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2025-07-11T20:28:19.364+05:30 INFO 16464 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2025-07-11T20:28:19.365+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : Detected StandardServletMultipartResolver
2025-07-11T20:28:19.365+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : Detected AcceptHeaderLocaleResolver
2025-07-11T20:28:19.365+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : Detected FixedThemeResolver
2025-07-11T20:28:19.368+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : Detected org.springframework.web.servlet.view.DefaultRequestToViewNameTranslator@b639f71
2025-07-11T20:28:19.368+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : Detected org.springframework.web.servlet.support.SessionFlashMapManager@91924eb
2025-07-11T20:28:19.368+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : enableLoggingRequestDetails='false': request parameters and headers will be masked to prevent unsafe
2025-07-11T20:28:19.368+05:30 INFO 16464 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 3 ms
2025-07-11T20:28:19.381+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.security.web.FilterChainProxy : Securing GET /authenticate
2025-07-11T20:28:19.392+05:30 DEBUG 16464 --- [nio-8083-exec-1] org.apache.tomcat.util.http.Parameters : Set encoding to UTF-8
2025-07-11T20:28:19.397+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.security.web.FilterChainProxy : Secured GET /authenticate
2025-07-11T20:28:19.400+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : GET "/authenticate", parameters={}
2025-07-11T20:28:19.419+05:30 DEBUG 16464 --- [nio-8083-exec-1] s.w.s.m.a.a.RequestMappingHandlerMapping : Mapped to com.cognizant.jwtsecurity.controller.AuthenticationController#authenticate(HttpServletReque
2025-07-11T20:28:19.547+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.w.s.m.a.a.HttpEntityMethodProcessor : Using 'text/plain', given [*/] and supported [text/plain, /*, application/json, application/*+json]
2025-07-11T20:28:19.550+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.w.s.m.a.a.HttpEntityMethodProcessor : Writing [{"token":"eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJlc2VyaWwif0i0K0k5LjEhAiojE3NTIyNDY8OTL9.YQVs9h2itgjb1tltgJaMAELg5CAfj1PXckrmBXevh0Y"}]
2025-07-11T20:28:19.560+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet : Completed 200 OK
2025-07-11T20:28:19.560+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.s.s.w.a.AnonymousAuthenticationFilter : Set SecurityContextHolder to anonymous SecurityContext
2025-07-11T20:28:19.568+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.a.coyote.http11.Http11InputBuffer : Before fill(): parsingHeader: [true], parsingRequestLine: [true], parsingRequestLinePhase: [0], parsingRequestLinePhase: [0], parsingRequestLinePhase: [0]
2025-07-11T20:28:19.568+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.a.tomcat.util.net.SocketWrapperBase : Socket: [org.apache.tomcat.util.net.NioEndpoint$NioSocketWrapper@33a1d61d:org.apache.tomcat.util.net.
2025-07-11T20:28:19.569+05:30 DEBUG 16464 --- [nio-8083-exec-1] o.apache.coyote.http11.Http11Processor : Error parsing HTTP request header

java.io.EOFException: null
at org.apache.tomcat.util.net.NioEndpoint$NioSocketWrapper.fillReadBuffer(NioEndpoint.java:1297) ~[tomcat-embed-core-10.1.8.jar:10.1.8]
at org.apache.tomcat.util.net.NioEndpoint$NioSocketWrapper.read(NioEndpoint.java:1184) ~[tomcat-embed-core-10.1.8.jar:10.1.8]
at org.apache.coyote.http11.Http11InputBuffer.fill(Http11InputBuffer.java:785) ~[tomcat-embed-core-10.1.8.jar:10.1.8]
```

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22631.5472]
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C:\Users\Lenovo\eclipse-workspace\JDBC\jwtsecurity>curl -u user:pwd http://localhost:8083/authenticate
{"token":"eyJhbGciOiJIUzI1NiIsInR5cGU6IjoiZXN0bGljc2VyaWiaWF9IjozNyMjQ2MTYxLmF0eHA1OjE3NTIyNDY3OTR9.LmF1Pn-cqc0v_HX4uVq38lKhNtL5ms_lagsFcWcFe4"}
C:\Users\Lenovo\eclipse-workspace\JDBC\jwtsecurity>curl -u user:pwd http://localhost:8083/authenticate
{"token":"eyJhbGciOiJIUzI1NiIsInR5cGU6IjoiZXN0bGljc2VyaWiaWF9IjozNyMjQ2MTYxLmF0eHA1OjE3NTIyNDY3OTR9.v5vlWrRhpRRczNgwQimFhqS0fLe9z0XCzvoZBDqYGI"}
C:\Users\Lenovo\eclipse-workspace\JDBC\jwtsecurity>curl -u user:pwd http://localhost:8083/authenticate
{"token":"eyJhbGciOiJIUzI1NiIsInR5cGU6IjoiZXN0bGljc2VyaWiaWF9IjozNyMjQ2MTYxLmF0eHA1OjE3NTIyNDY3OTR9.8jWo-bbQki_981Rhv1HSZK0lat2Mr3vqi--HmcEqw4"}
C:\Users\Lenovo\eclipse-workspace\JDBC\jwtsecurity>curl -u user:pwd http://localhost:8083/authenticate
{"token":"eyJhbGciOiJIUzI1NiIsInR5cGU6IjoiZXN0bGljc2VyaWiaWF9IjozNyMjQ2MTYxLmF0eHA1OjE3NTIyNDY3OTR9.k6EvrfQ0w1hdYfORR5sPhySIXLTz2sd7Mv-rWApayJN8"}
C:\Users\Lenovo\eclipse-workspace\JDBC\jwtsecurity>curl -u user:pwd http://localhost:8083/authenticate
{"token":"eyJhbGciOiJIUzI1NiIsInR5cGU6IjoiZXN0bGljc2VyaWiaWF9IjozNyMjQ2MTYxLmF0eHA1OjE3NTIyNDY3OTR9.Mc1fPn-cqc0v_HX4uVq38lKhNtL5ms_lagsFcWcFe4"}
C:\Users\Lenovo\eclipse-workspace\JDBC\jwtsecurity>curl -u user:pwd http://localhost:8083/authenticate
{"token":"eyJhbGciOiJIUzI1NiIsInR5cGU6IjoiZXN0bGljc2VyaWiaWF9IjozNyMjQ2MTYxLmF0eHA1OjE3NTIyNDY3OTR9.UHbmsunnYP8Rmc_SUG9XjuPgowd0eJhC6ZMzh6sw"}
C:\Users\Lenovo\eclipse-workspace\JDBC\jwtsecurity>
```

IN POSTMAN:

