

# Going In Blind

Points: 200

Topics: web

## Description

Ok, the developers got smart, and figured out a way to prevent SQLi in the login page. Plus, they decided the flag shouldn't be hardcoded in the web application anymore. How could anyone get to it now?

<http://chals.2022.squarectf.com:4103>

## Website

### Welcome to CTF Web 200!

Alex Hanlon has the flag again! Once again, try to login to his account. But, you can only use alphanumeric characters to login.

Username:

Password:

## When adding pointer as input: Request

Request	Response
<div>PrettyRawHex</div> <div>1 POST / HTTP/1.1 2 Host: chals.2022.squarectf.com:4103 3 Content-Length: 38 4 Cache-Control: max-age=0 5 Upgrade-Insecure-Requests: 1 6 Origin: http://chals.2022.squarectf.com:4103 7 Content-Type: application/x-www-form-urlencoded 8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.5304.63 Safari/537.36 9 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9 10 Referer: http://chals.2022.squarectf.com:4103/ 11 Accept-Encoding: gzip, deflate 12 Accept-Language: en-US,en;q=0.9 13 Connection: close 14 15 username=AlexHanlon&amp;password=*password</div>	

## Response

HTTP/1.1 500

Content-Type: text/html;charset=UTF-8

Content-Language: en-US

Content-Length: 5158

Date: Sat, 19 Nov 2022 17:08:36 GMT

Connection: close

<html><body><h1>Whitelabel Error Page</h1><p>This application has no explicit mapping for /error, so you are seeing this as a fallback.</p><div id='created'>Sat Nov 19 17:08:36 UTC 2022</div><div>There was an unexpected error (type=Internal Server Error, status=500).</div><div>password must contain alphanumeric characters only</div><div style='white-space:pre-wrap;'>java.lang.RuntimeException: password must contain alphanumeric characters only

at com.example.goinginblind.MainController.postLogin(MainController.java:32)  
at jdk.internal.reflect.GeneratedMethodAccessor35.invoke(Unknown Source)  
at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)  
at java.base/java.lang.reflect.Method.invoke(Method.java:568)  
at org.springframework.web.method.support.InvocableHandlerMethod.doInvoke(InvocableHandlerMethod.java:205)  
at org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerMethod.java:150)  
at  
org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:117)  
at  
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:895)  
at  
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:808)  
at org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.handle(AbstractHandlerMethodAdapter.java:87)  
at org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:1071)  
at org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:964)  
at org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:1006)  
at org.springframework.web.servlet.FrameworkServlet.doPost(FrameworkServlet.java:909)  
at javax.servlet.http.HttpServlet.service(HttpServlet.java:696)  
at org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:883)  
at javax.servlet.http.HttpServlet.service(HttpServlet.java:779)  
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:227)  
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:162)  
at org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:53)  
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:189)  
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:162)  
at org.springframework.web.filter.RequestContextFilter.doFilterInternal(RequestContextFilter.java:100)  
at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:117)  
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:189)  
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:162)  
at org.springframework.web.filter.FormContentFilter.doFilterInternal(FormContentFilter.java:93)  
at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:117)  
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:189)  
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:162)  
at org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:201)  
at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:117)  
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:189)  
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:162)  
at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:197)  
at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:97)  
at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:541)  
at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:135)  
at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:92)  
at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:78)  
at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:360)  
at org.apache.coyote.http11.Http11Processor.service(Http11Processor.java:399)  
at org.apache.coyote.AbstractProcessorLight.process(AbstractProcessorLight.java:65)  
at org.apache.coyote.AbstractProtocol\$ConnectionHandler.process(AbstractProtocol.java:893)  
at org.apache.tomcat.util.net.NioEndpoint\$SocketProcessor.doRun(NioEndpoint.java:1789)  
at org.apache.tomcat.util.net.SocketProcessorBase.run(SocketProcessorBase.java:49)  
at org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1191)  
at org.apache.tomcat.util.threads.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java:659)  
at org.apache.tomcat.util.threads.TaskThread\$WrappingRunnable.run(TaskThread.java:61)  
at java.base/java.lang.Thread.run(Thread.java:833)  
</div></body></html>

This means that Java manages the HTTP request present in the page and that SQL injections are not possible for this method.

#### Post Challenge Edit

When looking at write-ups after the challenge it came to my attention that I was in the right path but needed to generate a GET request with an SQL injection as parameter to get the answer.