

Log on as Admin: no SQLi

Weak credentials and default credentials are still a sadly common way for attackers to gain a foothold on otherwise-secured systems.

Ideas

You know that user "admin@juice-sh.op" exists, based on the review of Apple Juice. Admin accounts are prime targets because they have so much power in the application.

What's a likely default password for an admin account?

What's a likely password for an admin who's in a hurry to create the account and plans to return "later" to set a better one?

Walk-Thru

Make sure you have Firefox set to use your Burp Suite as a proxy, and that the Proxy > Intercept pane says "Intercept is off"

1. Log out of your account, if you are logged in.
2. Visit <http://localhost:3000/#/login> and try to log in with the user admin@juice-sh.op
3. Try a few different passwords
4. If you don't find one that works, try Burp Intruder:

You can use Burp Intruder to automate password guessing, either buessing a bunch of passwords for one user ("brute force," as you're doing here) or, more safely, by guessing one password for a bunch of potential users ("password spraying")

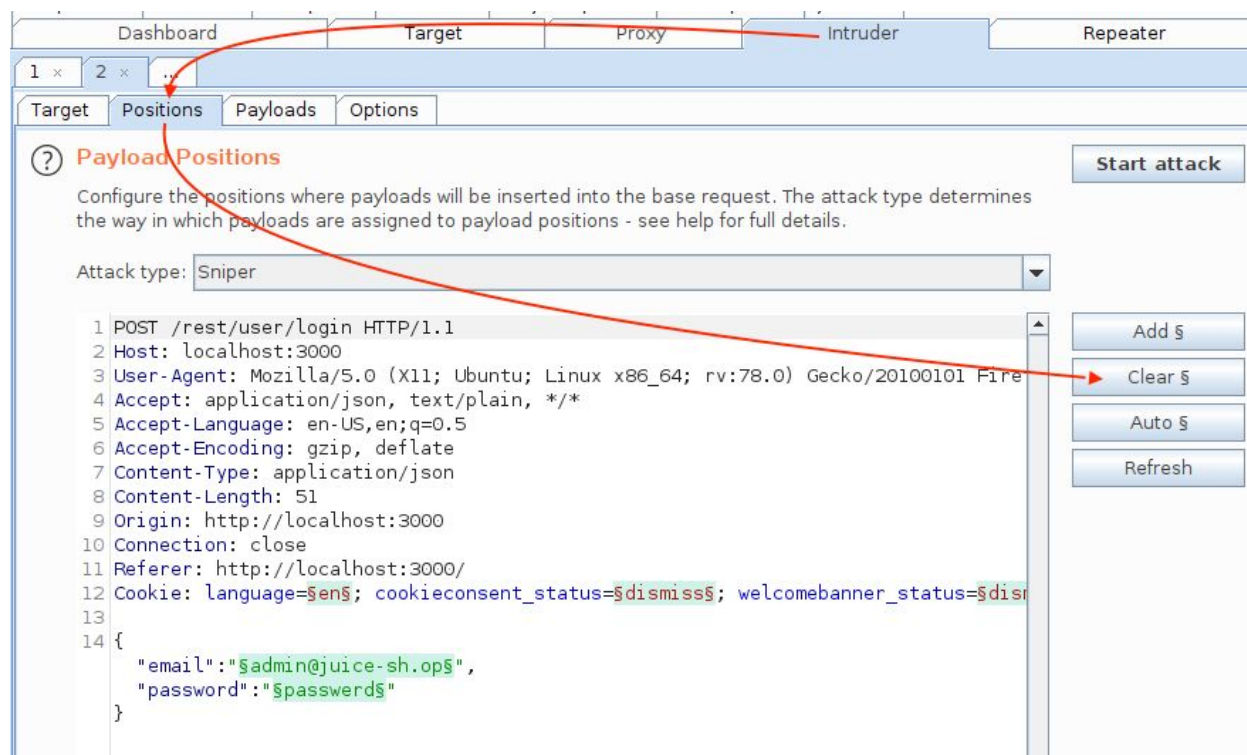
5. Submit the login form with an email address of "admin@juice-sh.op" (which you found earlier in your exploration of Juice Shop, on the review for Apple Juice) and any password. Click "Log in" and let the login fail.
6. Find the login POST in your Burp Suite Proxy History and send it to Intruder (right-click, "send to Intruder")

# ▾	Host	Method	URL
58	http://localhost:3000	GET	/rest/admin/application-configuration
48	http://localhost:3000	POST	/rest/user/login
47	http://localhost:3000	GET	/rest/user/whoami
46	http://localhost:3000	GET	/rest/user/whoami
45	http://localhost:3000	GET	/rest/admin/application-configuration

Request	Response
<div>Raw Params Headers Hex</div> <pre> 1 POST /rest/user/login HTTP/1.1 2 Host: localhost:3000 3 User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:78.0) Gecko, 4 Accept: application/json, text/plain, */* 5 Accept-Language: en-US,en;q=0.5 6 Accept-Encoding: gzip, deflate 7 Content-Type: application/json 8 Content-Length: 51 9 Origin: http://localhost:3000 10 Connection: close 11 Referer: http://localhost:3000/ 12 Cookie: language=en; cookieconsent_status=dismiss; welcomebanner_s 13 14 { "email": "admin@juice-sh.op", "password": "password" } </pre>	

Login POST Message from Burp Suite Proxy History

7. Click "Clear" to remove the 'section' markers around the parameters that Burp suggests for attacking. Then highlight the password (whatever's between the double-quotes in your saved request) and click "Add"



Insertion Points As Pre-Filled: Click "Clear" To Remove Them

```

12 Cookie: language=en; cookieconsent_status
13
14 {
    "email": "admin@juice-sh.op",
    "password": "password"
}

```

Highlight the Invalid Password from Your Failed Login

```

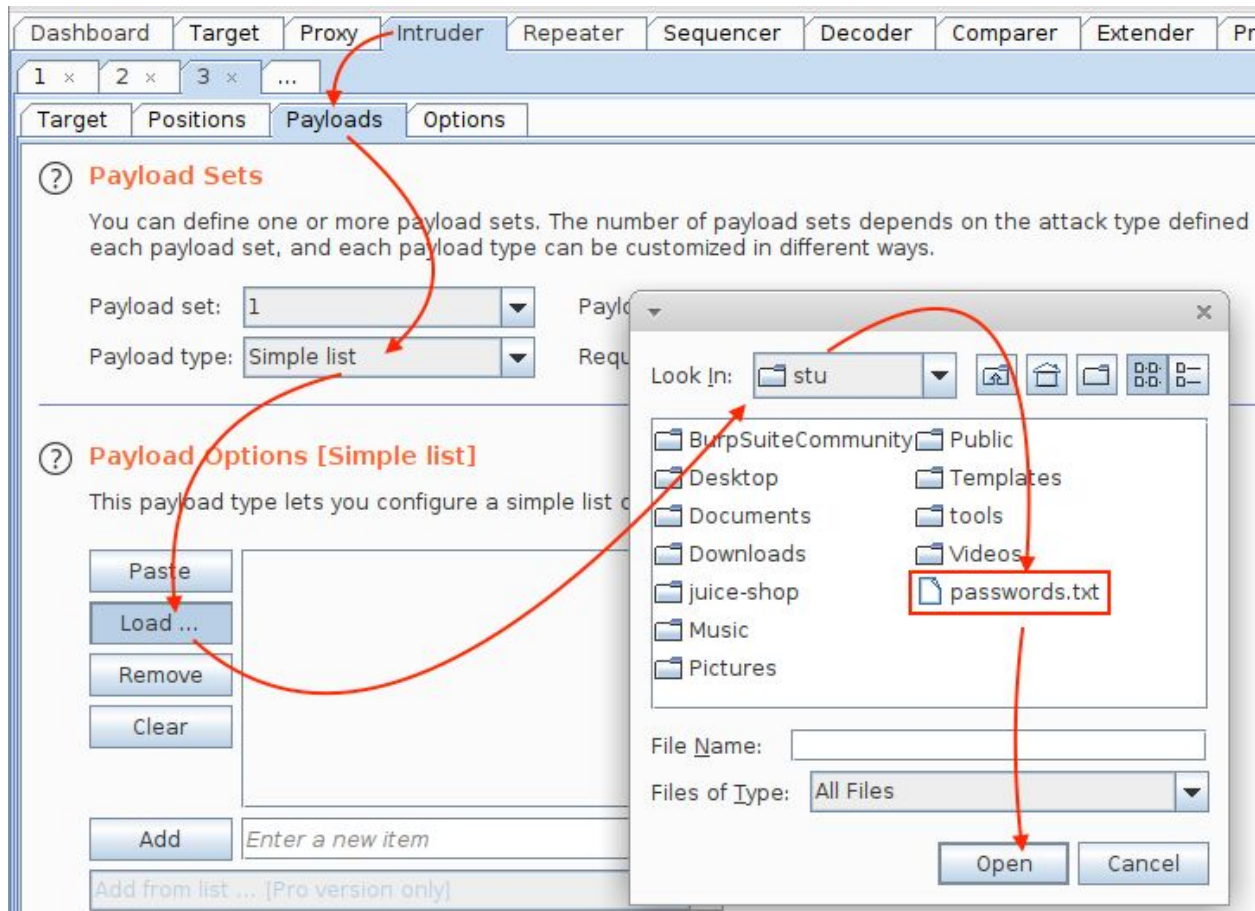
11 Referer: http://localhost:3000/
12 Cookie: language=en; cookieconsent_status
13
14 {
    "email": "admin@juice-sh.op",
    "password": "password"
}

```

Click "Add"

8. Leave the "Attack type" as "Sniper" and click on the "Payloads" tab.

9. In the "Payload Options" section, click "Load ..." and navigate to the "passwords.txt" file in your user's home directory.



Open File of Password Guesses

10. Click "Start Attack" (then click "OK" on the warning about throttling of Intruder in Burp Suite Community edition)

11. Notice one payload (one password guess) received an HTTP 200 and a longer response than the others. This is the successful login.

Intruder attack 1

Attack Save Columns

ResultsTargetPositionsPayloadsOptions

Filter: Showing all items

Request ^	Payload	Status	Error	Timeout	Length
0		401	<input type="checkbox"/>	<input type="checkbox"/>	362
1	Password	401	<input type="checkbox"/>	<input type="checkbox"/>	362
2	123456	401	<input type="checkbox"/>	<input type="checkbox"/>	362
3	football	401	<input type="checkbox"/>	<input type="checkbox"/>	362
4	letmein	401	<input type="checkbox"/>	<input type="checkbox"/>	362
5	administrator	401	<input type="checkbox"/>	<input type="checkbox"/>	362
6	admin123	200	<input type="checkbox"/>	<input type="checkbox"/>	1159
7	lqaz@WSX	401	<input type="checkbox"/>	<input type="checkbox"/>	362

Finished

Successful Login!

12. Return to the browser to see your prize:

