Week 5 Task 1

Q1

To demonstrate the command injection vulnerability, I executed the following input against the provided **ping_service.py** program:

Injection used

python ping_service.py "1.1.1.1; cat /etc/passwd"

The program constructs a shell command using:

command = f"ping -c 4 {target}"

subprocess.check_output(command, shell=True)

Because **shell=True** is used, the shell interprets the semicolon **(;)** as a command separator.

Therefore, the injected input:

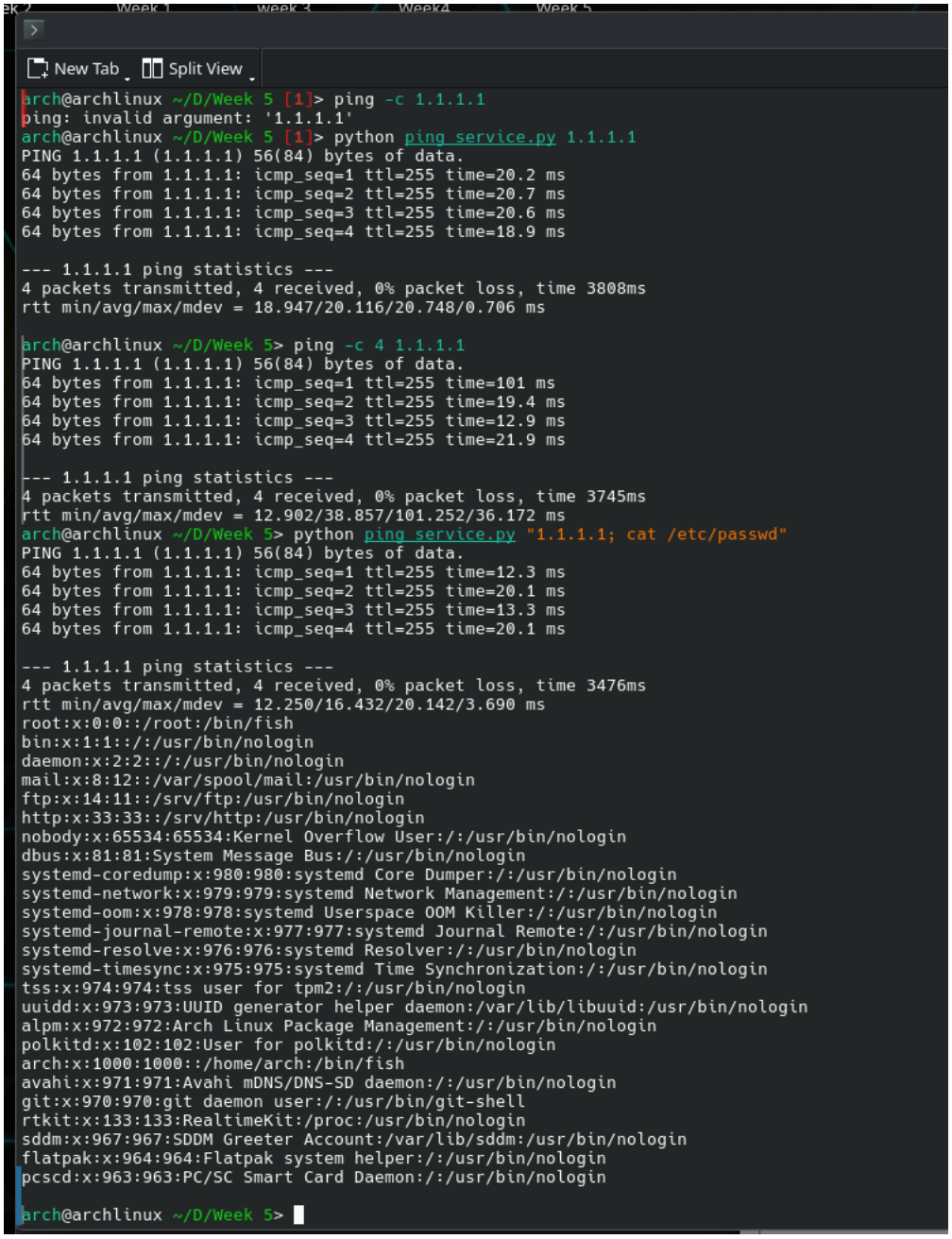
1.1.1.1; cat /etc/passwd

is executed as two separate commands:

ping -c 4 1.1.1.1

cat /etc/passwd

As a result, the program first performs the ping and then prints the contents of **/etc/passwd**, confirming the presence of an OS command injection vulnerability.

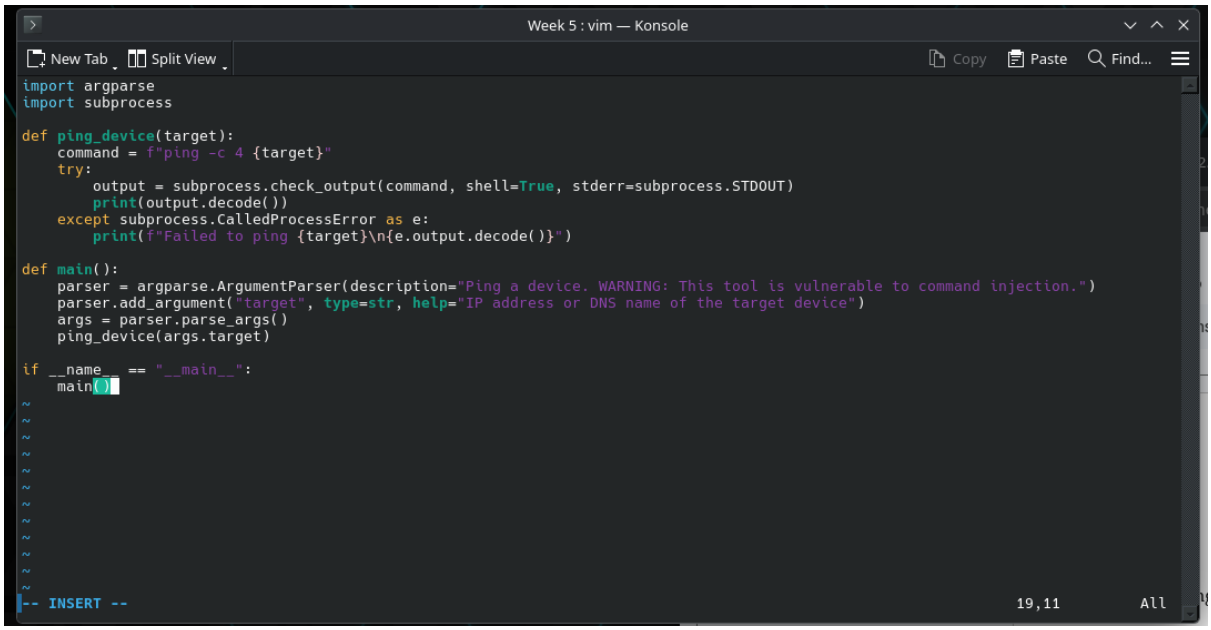


Q2

Two issues made the command injection possible:

1. The program directly inserts untrusted user input into a shell command string: **command = f"ping -c 4 {target}"** .This allows attackers to include shell metacharacters such as **;**,**&&** , or **|**.
2. Use of **shell=True** :
3. The command is executed using **subprocess.check_output(command, shell=True)**, which causes the input to be interpreted by **/bin/sh**.

4. This allows injected commands (e.g., **cat/etc/passwd**) to be executed by the shell.

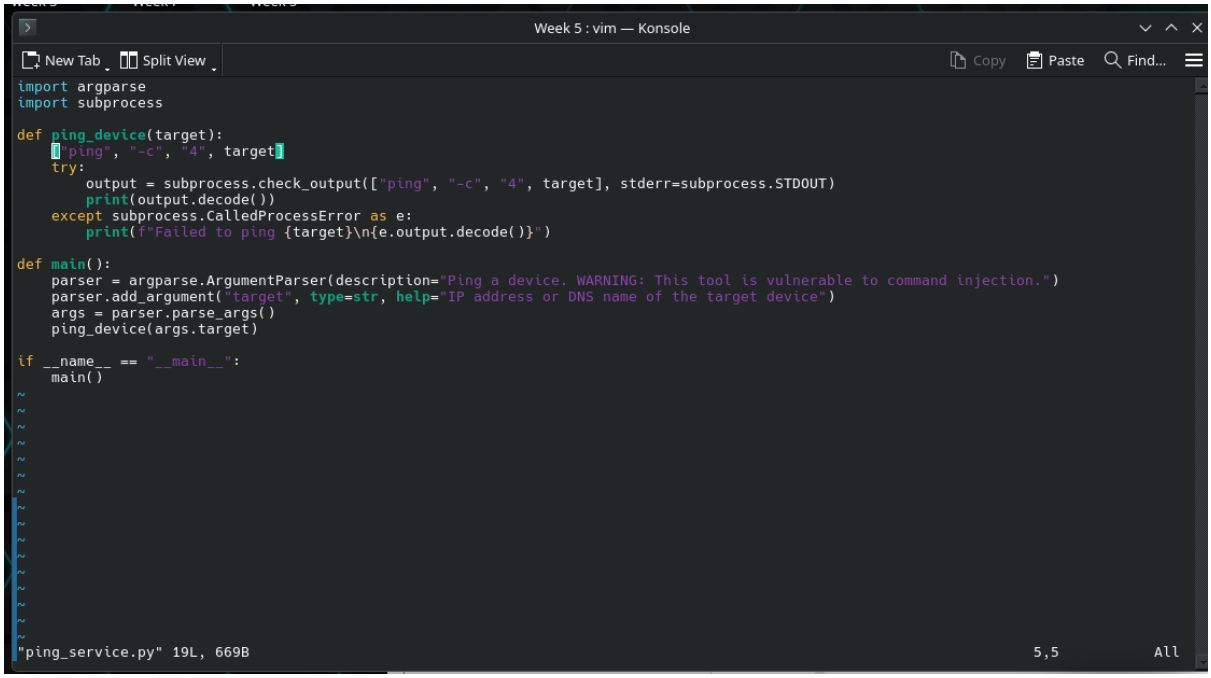


Q3

The command injection vulnerability can be fixed by addressing the two underlying issues identified in Question 2

1. Remove the use of **shell=True,** The program currently executes the command using: **subprocess.check_output(command, shell=True)**. Using **shell=True** causes the input to be interpreted by **/bin/sh**, which allows attackers to inject additional commands.
   To fix this, the program should avoid the shell entirely and pass arguments as a list: **subprocess.check_output(["ping", "-c", "4", target])**
   This prevents the shell from interpreting metacharacters such as **;,&&** , or **|**.

2. Avoid unsafe string concatenation, The original code constructs a command string by directly inserting user input: **command = f"ping -c 4 {target}".** This allows malicious input to modify the command.
   By switching to a list of arguments, the program no longer builds a shell command string, eliminating this risk: **["ping", "-c", "4", target].**



Q4

To prevent command injection, the program must ensure that the user cannot supply malicious input that gets interpreted by the shell. This can be achieved by:

- Validating the input to ensure it is a legitimate IP address
- Removing the use of so the shell never interprets user input
- Passing arguments as a list, not a string

Below is a secure implementation that uses input validation and safe subprocess

import subprocess

import ipaddress

def ping_device(target):

 # Input Validation

try:

ipaddress.ip_address(target)

except ValueError:

print("Invalid IP address")

return

```
    # Ping command without using a shell
    try:
        output = subprocess.check_output(
            ["ping", "-c", "4", target],
            stderr=subprocess.STDOUT
        )
        print(output.decode())
    except subprocess.CalledProcessError as e:
        print(f"Failed to ping {target}\n{e.output.decode()}")


def main():
    import argparse
    parser = argparse.ArgumentParser(description="Secure ping tool with input validation.")
    parser.add_argument("target", type=str, help="IP address of the target device")
    args = parser.parse_args()
    ping_device(args.target)


if __name__ == "__main__":
    main()
```

What could be better?

- Add logging to detect repeated malicious attempts
- Run the program with reduced privileges (e.g., non-root user)

Q5

After implementing the fixes in Question 4, I verified that command injection is no longer possible by performing a combination of practical tests and code-level checks. Together, these confirm that the vulnerability has been fully eliminated.

1. Testing the original injection payload, I re-ran the same malicious input used in Question 1: **python ping_service.py "1.1.1.1; cat /etc/passwd"**
   Result: Invalid IP Address

2. Testing multiple other injection attempts, I attempted several common command-injection patterns:
   - **python ping_service.py "1.1.1.1 && whoami"**
   - **python ping_service.py "1.1.1.1 | ls"**
   - **python ping_service.py "1.1.1.1 $(whoami)"**
   - **python ping_service.py "1.1.1.1`whoami`"**

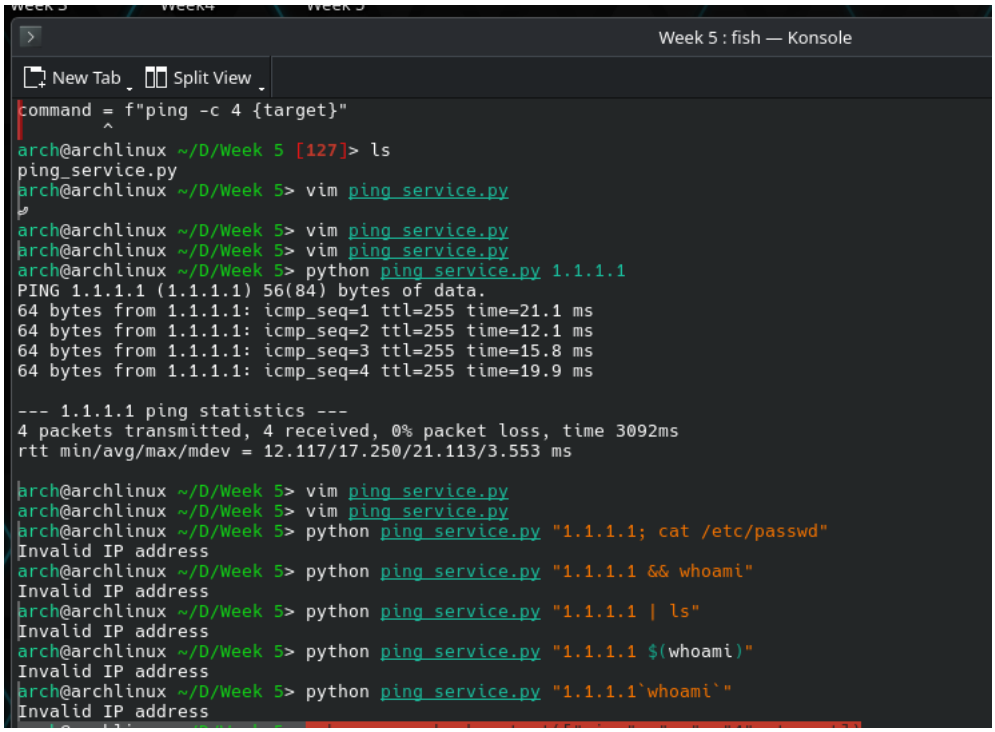
   Results: Invalid IP Address

3. Verifying that the shell is no longer used, The updated code executes the ping command using **subprocess.check_output(["ping", "-c", "4", target])**

   Because the program no longer uses **shell=True**:

   - The shell never interprets user input
   - Special characters cannot trigger command execution
   - User input is treated strictly as a literal argument

4. Confirming that input validation blocks unsafe input, The program now validates the input using: **ipaddress.ip_address(target)**
   This ensures that only legitimate IPv4 or IPv6 addresses are accepted.
   Any input containing shell metacharacters is automatically rejected.



Week 5 Task 2

A

Using Burp Suite's intercept feature, I captured the login request sent by the Juice Shop application when a user attempts to log in. The request is:

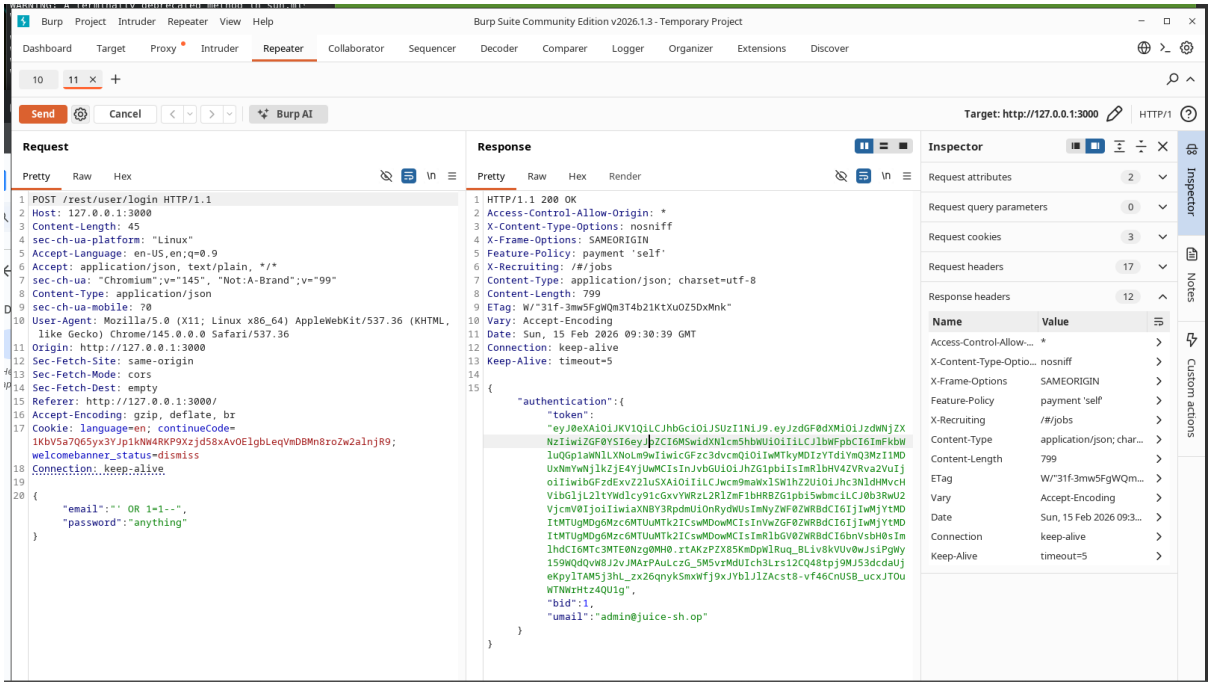
POST /rest/user/login HTTP/1.1 Host: 127.0.0.1:3000 Content-Length: 44 sec-ch-ua-platform: "Linux" Accept-Language: en-US,en;q=0.9 Accept: application/json, text/plain, / sec-ch-ua: "Chromium";v="145", "Not:A-Brand";v="99" Content-Type: application/json sec-ch-ua-mobile: ?0 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/145.0.0.0 Safari/537.36 Origin: http://127.0.0.1:3000 Sec-Fetch-Site: same-origin Sec-Fetch-Mode: cors Sec-Fetch-Dest: empty Referer: http://127.0.0.1:3000/ Accept-Encoding: gzip, deflate, br Cookie: language=en; continueCode=1KbV5a7Q65yx3YJp1kNW4RKP9Xzjd58xAvOElgbLeqVmDBMn8roZw2alnjR9; welcomebanner_status=dismiss Connection: keep-alive

{"email":"test@test.com","password":"12345"}

The vulnerable parameter is the email field. This parameter is directly inserted into a backend SQL query without proper sanitization or parameterization, making it susceptible to SQL injection. By modifying the email field to:

' OR 1=1—

I was able to bypass authentication and obtain a valid JWT token for the admin user. This confirms that the login endpoint is vulnerable to SQL injection



Decoded JWT Token

{"token":"eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJzdGF0dXMiOiJzdWNjZXNzIiwiZGF0YSI6eyJpZCI6MSwidXNlcm5hbWUiOiIiLCJlbWFpbCI6ImFkbWluQGp1aWNlLXNoLm9wIiwicGFzc3dvcmQiOiIwMTkyMDIzYTdiYmQ3MzI1MDUxNmYwNjlkZjE4YjUwMCIsInJvbGUiOiJhZG1pbiIsImRlbHV4ZVRva2VuIjoiIiwibGFzdExvZ2luSXAiOiIiLCJwcm9maWxlSW1hZ2UiOiJhc3NldHMvcHVibGljL2ltYWdlcy91cGxvYWRzL2RlZmF1bHRBZG1pbi5wbmciLCJ0b3RwU2VjcmV0Ijoi IiwiaXNBY3RpdmUiOnRydWUsImNyZWF0ZWRBdCI6IjIwMjYtMDItMTUgMDg6Mzc6MTUuMTk2ICswMDowMCIsInVwZGF0ZWRBdCI6IjIwMjYtMDItMTUgMDg6Mzc6MTUuMTk2ICswMDowMCIsImRlbGV0ZWRBdCI6bnVsbH0sImlhdCI6MTc3MTE0Nzg0MH0.rtAKzPZX85KmDpWlRuq_BLiv8kVUv0wJsiPgWy159WQdQvW8J2vJMArPAuLczG_5M5vrMdUIch3Lrs12CQ48tpj9MJ53dcdaUjeKpylTAM5j3hL_zx26qnykSmxWfj9xJYblJlZAcst8-vf46CnUSB_ucxJTOuWTNWrHtz4QU1g","bid":1,"umail":"admin@juice-sh.op"}

B

Input used in the search field

I entered a value into the search field that bypassed the client-side validation and caused the backend to ignore the intended filter. This resulted in the server returning all products instead of only matching item

Explanation of how the SQL command is modified

The backend constructs a SQL query using the search term directly. Because the server does not validate the input, the WHERE clause can be altered so that it always evaluates to true. When the condition is always true, the database returns all products, including deleted or hidden ones.

JSON data which contains all the products as response.

HTTP/1.1 200 OK

Access-Control-Allow-Origin: *

X-Content-Type-Options: nosniff

X-Frame-Options: SAMEORIGIN

Feature-Policy: payment 'self'

X-Recruiting: /#/jobs

Content-Type: application/json; charset=utf-8

ETag: W/"354c-iOg5zWQq+B1eIbj8lX/fv7ZMA6U"

Vary: Accept-Encoding

Date: Sun, 15 Feb 2026 12:47:02 GMT

Connection: keep-alive

Keep-Alive: timeout=5

Content-Length: 13644

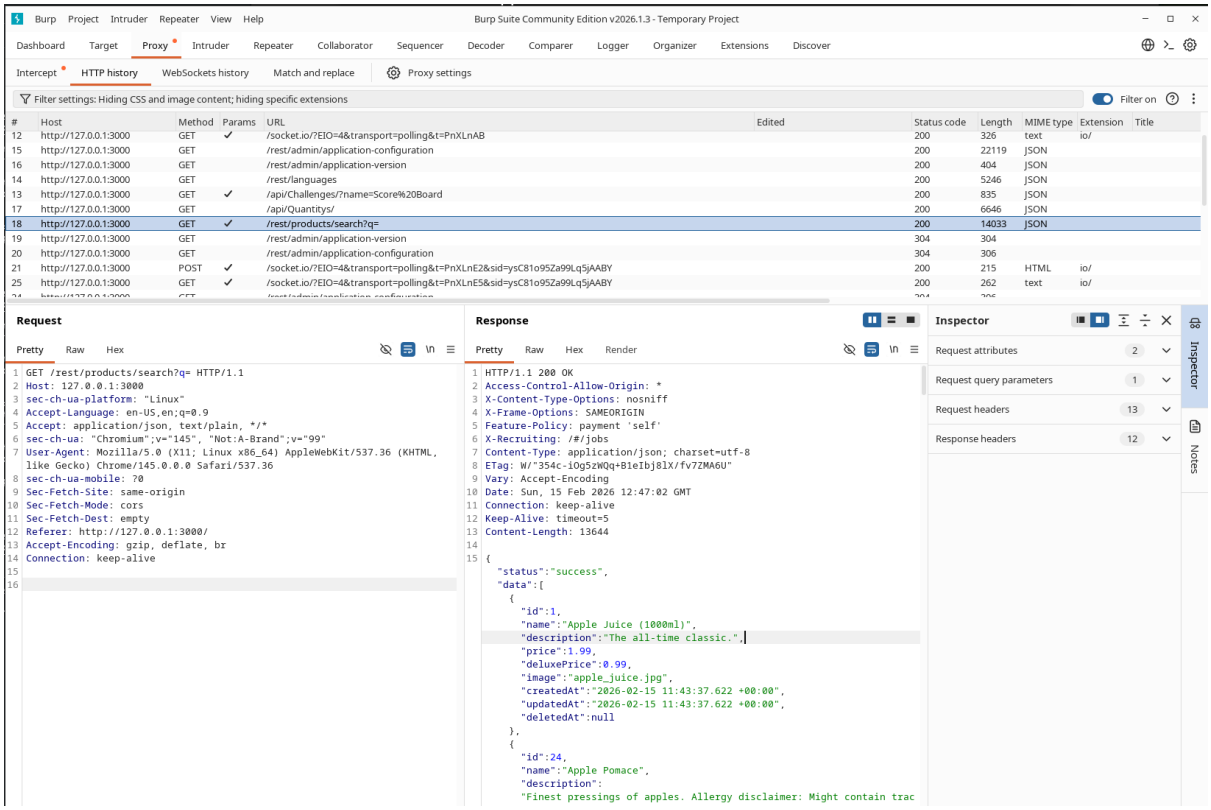
{"status":"success","data":[{"id":1,"name":"Apple Juice (1000ml)","description":"The all-time
classic.","price":1.99,"deluxePrice":0.99,"image":"apple_juice.jpg","createdAt":"2026-02-15 11:43:37.622 +00:00","updatedAt":"2026-02-15 11:43:37.622
+00:00","deletedAt":null},{"id":24,"name":"Apple Pomace","description":"Finest pressings of apples. Allergy disclaimer: Might contain traces of worms. Can be sent back to us for
recycling.","price":0.89,"deluxePrice":0.89,"image":"apple_pressings.jpg","createdAt":"2026-02-15 11:43:37.626 +00:00","updatedAt":"2026-02-15 11:43:37.626
+00:00","deletedAt":null},{"id":6,"name":"Banana Juice
(1000ml)","description":"Monkeys love it the
most.","price":1.99,"deluxePrice":1.99,"image":"banana_juice.jpg","createdAt":"2026-02-15 11:43:37.623 +00:00","updatedAt":"2026-02-15 11:43:37.623
+00:00","deletedAt":null},{"id":42,"name":"Best Juice Shop Salesman Artwork","description":"Unique digital painting depicting Stan, our most qualified and almost profitable salesman. He made a succesful carreer in selling used ships, coffins, krypts, crosses, real estate, life insurance, restaurant supplies, voodoo enhanced asbestos and courtroom souvenirs before finally adding his expertise to the Juice Shop marketing
team.","price":5000,"deluxePrice":5000,"image":"artwork2.jpg","createdAt":"2026-02-15 11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627
+00:00","deletedAt":null},{"id":30,"name":"Carrot Juice (1000ml)","description":"As the old German saying goes: \"Carrots are good for the eyes. Or has anyone ever seen a rabbit with
glasses?\"","price":2.99,"deluxePrice":2.99,"image":"carrot_juice.jpeg","createdAt":"2026-02-15 11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627
+00:00","deletedAt":null},{"id":3,"name":"Eggfruit Juice (500ml)","description":"Now with even more exotic
flavour.","price":8.99,"deluxePrice":8.99,"image":"eggfruit_juice.jpg","createdAt":"2026-02-15 11:43:37.622 +00:00","updatedAt":"2026-02-15 11:43:37.622
+00:00","deletedAt":null},{"id":25,"name":"Fruit Press","description":"Fruits go in. Juice comes out. Pomace you can send back to us for recycling
purposes.","price":89.99,"deluxePrice":89.99,"image":"fruit_press.jpg","createdAt":"2026

-02-15 11:43:37.626 +00:00","updatedAt":"2026-02-15 11:43:37.626 +00:00","deletedAt":null},{"id":22,"name":"Green Smoothie","description":"Looks poisonous but is actually very good for your health! Made from green cabbage, spinach, kiwi and grass.","price":1.99,"deluxePrice":1.99,"image":"green_smoothie.jpg","createdAt":"2026-02-15 11:43:37.626 +00:00","updatedAt":"2026-02-15 11:43:37.626 +00:00","deletedAt":null},{"id":41,"name":"Juice Shop \"Permafrost\" 2020 Edition","description":"Exact version of OWASP Juice Shop that was archived on 02/02/2020 by the GitHub Archive Program and ultimately went into the Arctic Code Vault on July 8. 2020 where it will be safely stored for at least 1000 years.","price":9999.99,"deluxePrice":9999.99,"image":"permafrost.jpg","createdAt":"2026-02-15 11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627 +00:00","deletedAt":null},{"id":5,"name":"Lemon Juice (500ml)","description":"Sour but full of vitamins.","price":2.99,"deluxePrice":1.99,"image":"lemon_juice.jpg","createdAt":"2026-02-15 11:43:37.623 +00:00","updatedAt":"2026-02-15 11:43:37.623 +00:00","deletedAt":null},{"id":33,"name":"Melon Bike (Comeback-Product 2018 Edition)","description":"The wheels of this bicycle are made from real water melons. You might not want to ride it up/down the curb too hard.","price":2999,"deluxePrice":2999,"image":"melon_bike.jpeg","createdAt":"2026-02-15 11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627 +00:00","deletedAt":null},{"id":38,"name":"OWASP Juice Shop \"King of the Hill\" Facemask","description":"Facemask with compartment for filter from 50% cotton and 50% polyester.","price":13.49,"deluxePrice":13.49,"image":"fan_facemask.jpg","createdAt":"2026-02-15 11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627 +00:00","deletedAt":null},{"id":8,"name":"OWASP Juice Shop CTF Girlie-Shirt","description":"For serious Capture-the-Flag heroines only!","price":22.49,"deluxePrice":22.49,"image":"fan_girlie.jpg","createdAt":"2026-02-15 11:43:37.623 +00:00","updatedAt":"2026-02-15 11:43:37.623 +00:00","deletedAt":null},{"id":43,"name":"OWASP Juice Shop Card (non-foil)","description":"Mythic rare (obviously...) card \"OWASP Juice Shop\" with three distinctly useful abilities. Alpha printing, mint condition. A true collectors piece to own!","price":1000,"deluxePrice":1000,"image":"card_alpha.jpg","createdAt":"2026-02-15 11:43:37.628 +00:00","updatedAt":"2026-02-15 11:43:37.628 +00:00","deletedAt":null},{"id":34,"name":"OWASP Juice Shop Coaster (10pcs)","description":"Our 95mm circle coasters are printed in full color and made

from thick, premium coaster
board.","price":19.99,"deluxePrice":19.99,"image":"coaster.jpg","createdAt":"2026-02-15
11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627
+00:00","deletedAt":null},{"id":37,"name":"OWASP Juice Shop Holographic
Sticker","description":"Die-cut holographic sticker. Stand out from those 08/15-sticker-
covered laptops with this shiny beacon of 80's
coolness!","price":2,"deluxePrice":2,"image":"holo_sticker.png","createdAt":"2026-02-15
11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627
+00:00","deletedAt":null},{"id":19,"name":"OWASP Juice Shop Hoodie","description":"Mr.
Robot-style apparel. But in black. And with
logo.","price":49.99,"deluxePrice":49.99,"image":"fan_hoodie.jpg","createdAt":"2026-02-
15 11:43:37.626 +00:00","updatedAt":"2026-02-15 11:43:37.626
+00:00","deletedAt":null},{"id":13,"name":"OWASP Juice Shop Iron-Ons
(16pcs)","description":"Upgrade your clothes with washer safe <a
href=\"https://www.stickeryou.com/products/owasp-juice-shop/794\"
target=\"_blank\">iron-ons of the OWASP Juice Shop or CTF Extension
logo!","price":14.99,"deluxePrice":14.99,"image":"iron-on.jpg","createdAt":"2026-02-15
11:43:37.625 +00:00","updatedAt":"2026-02-15 11:43:37.625
+00:00","deletedAt":null},{"id":45,"name":"OWASP Juice Shop LEGO™
Tower","description":"Want to host a Juice Shop CTF in style? Build <a
href=\"https://github.com/OWASP/owasp-swag/blob/master/projects/juice-
shop/lego/OWASP%20JuiceShop%20Pi-server%201.2.pdf\" target=\"_blank\">your own
LEGO™ tower which holds four Raspberry Pi 4 models with PoE HAT modules <a
href=\"https://github.com/juice-shop/multi-juicer/blob/main/guides/raspberry-
pi/raspberry-pi.md\" target=\"_blank\">running a MultiJuicer Kubernetes cluster!
Wire to a switch and connect to your network to have an out-of-the-box ready CTF up in
no time!","price":799,"deluxePrice":799,"image":"lego_case.jpg","createdAt":"2026-02-15
11:43:37.628 +00:00","updatedAt":"2026-02-15 11:43:37.628
+00:00","deletedAt":null},{"id":26,"name":"OWASP Juice Shop Logo (3D-
printed)","description":"This rare item was designed and handcrafted in Sweden. This is
why it is so incredibly expensive despite its complete lack of
purpose.","price":99.99,"deluxePrice":99.99,"image":"3d_keychain.jpg","createdAt":"202
6-02-15 11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627
+00:00","deletedAt":null},{"id":14,"name":"OWASP Juice Shop Magnets
(16pcs)","description":"Your fridge will be even cooler with these OWASP Juice Shop or
CTF Extension logo <a href=\"https://www.stickeryou.com/products/owasp-juice-
shop/794\"
target=\"_blank\">magnets!","price":15.99,"deluxePrice":15.99,"image":"magnets.jp
g","createdAt":"2026-02-15 11:43:37.625 +00:00","updatedAt":"2026-02-15 11:43:37.625
+00:00","deletedAt":null},{"id":18,"name":"OWASP Juice Shop Mug","description":"Black
mug with regular logo on one side and CTF logo on the other! Your colleagues will envy

you!","price":21.99,"deluxePrice":21.99,"image":"fan_mug.jpg","createdAt":"2026-02-15 11:43:37.626 +00:00","updatedAt":"2026-02-15 11:43:37.626 +00:00","deletedAt":null},{"id":15,"name":"OWASP Juice Shop Sticker Page","description":"Massive decoration opportunities with these OWASP Juice Shop or CTF Extension sticker pages! Each page has 16 stickers on it.","price":9.99,"deluxePrice":9.99,"image":"sticker_page.jpg","createdAt":"2026-02-15 11:43:37.625 +00:00","updatedAt":"2026-02-15 11:43:37.625 +00:00","deletedAt":null},{"id":16,"name":"OWASP Juice Shop Sticker Single","description":"Super high-quality vinyl sticker single with the OWASP Juice Shop or CTF Extension logo! The ultimate laptop decal!","price":4.99,"deluxePrice":4.99,"image":"sticker_single.jpg","createdAt":"2026-02-15 11:43:37.625 +00:00","updatedAt":"2026-02-15 11:43:37.625 +00:00","deletedAt":null},{"id":7,"name":"OWASP Juice Shop T-Shirt","description":"Real fans wear it 24/7!","price":22.49,"deluxePrice":22.49,"image":"fan_shirt.jpg","createdAt":"2026-02-15 11:43:37.623 +00:00","updatedAt":"2026-02-15 11:43:37.623 +00:00","deletedAt":null},{"id":17,"name":"OWASP Juice Shop Temporary Tattoos (16pcs)","description":"Get one of these temporary tattoos to proudly wear the OWASP Juice Shop or CTF Extension logo on your skin! If you tweet a photo of yourself with the tattoo, you get a couple of our stickers for free! Please mention <code>@owasp_juiceshop</code> in your tweet!","price":14.99,"deluxePrice":14.99,"image":"tattoo.jpg","createdAt":"2026-02-15 11:43:37.626 +00:00","updatedAt":"2026-02-15 11:43:37.626 +00:00","deletedAt":null},{"id":20,"name":"OWASP Juice Shop-CTF Velcro Patch","description":"4x3.5\" embroidered patch with velcro backside. The ultimate decal for every tactical bag or backpack!","price":2.92,"deluxePrice":2.92,"image":"velcro-patch.jpg","createdAt":"2026-02-15 11:43:37.626 +00:00","updatedAt":"2026-02-15 11:43:37.626 +00:00","deletedAt":null},{"id":9,"name":"OWASP SSL Advanced Forensic Tool (O-Saft)","description":"O-Saft is an easy to use tool to show information about SSL certificate and tests the SSL connection according given list of ciphers and various SSL configurations. More...","price":0.01,"deluxePrice":0.01,"image":"orange_juice.jpg","createdAt":"2026-02-15 11:43:37.624 +00:00","updatedAt":"2026-02-15 11:43:37.624 +00:00","deletedAt":null},{"id":36,"name":"OWASP Snakes and Ladders - Mobile

Apps","description":"This amazing mobile app security awareness board game is available for Tabletop Simulator on Steam Workshop now!","price":0.01,"deluxePrice":0.01,"image":"snakes_ladders_m.jpg","createdAt":"2026-02-15 11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627 +00:00","deletedAt":null},{"id":35,"name":"OWASP Snakes and Ladders - Web Applications","description":"This amazing web application security awareness board game is available for Tabletop Simulator on Steam Workshop now!","price":0.01,"deluxePrice":0.01,"image":"snakes_ladders.jpg","createdAt":"2026-02-15 11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627 +00:00","deletedAt":null},{"id":2,"name":"Orange Juice (1000ml)","description":"Made from oranges hand-picked by Uncle Dittmeyer.","price":2.99,"deluxePrice":2.49,"image":"orange_juice.jpg","createdAt":"2026-02-15 11:43:37.622 +00:00","updatedAt":"2026-02-15 11:43:37.622 +00:00","deletedAt":null},{"id":32,"name":"Pwning OWASP Juice Shop","description":"The official Companion Guide by Björn Kimminich available for free on LeanPub and also readable online!","price":5.99,"deluxePrice":5.99,"image":"cover_small.jpg","createdAt":"2026-02-15 11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627 +00:00","deletedAt":null},{"id":23,"name":"Quince Juice (1000ml)","description":"Juice of the Cydonia oblonga fruit. Not exactly sweet but rich in Vitamin C.","price":4.99,"deluxePrice":4.99,"image":"quince.jpg","createdAt":"2026-02-15 11:43:37.626 +00:00","updatedAt":"2026-02-15 11:43:37.626 +00:00","deletedAt":null},{"id":4,"name":"Raspberry Juice (1000ml)","description":"Made from blended Raspberry Pi, water and sugar.","price":4.99,"deluxePrice":4.99,"image":"raspberry_juice.jpg","createdAt":"2026-02-15 11:43:37.623 +00:00","updatedAt":"2026-02-15 11:43:37.623 +00:00","deletedAt":null},{"id":29,"name":"Strawberry Juice (500ml)","description":"Sweet & tasty!","price":3.99,"deluxePrice":3.99,"image":"strawberry_juice.jpeg","createdAt":"2026-02-15 11:43:37.627 +00:00","updatedAt":"2026-02-15 11:43:37.627 +00:00","deletedAt":null},{"id":21,"name":"Woodruff Syrup \"Forest Master X-Treme\"","description":"Harvested and manufactured in the Black Forest, Germany. Can cause hyperactive behavior in children. Can cause permanent green tongue when consumed undiluted.","price":6.99,"deluxePrice":6.99,"image":"woodruff_syrup.jpg","createdAt":"2026-02-15 11:43:37.626 +00:00","updatedAt":"2026-02-15 11:43:37.626 +00:00","deletedAt":null}]


Burp Project Intruder Repeater View Help
Burp Suite Community Edition v2026.1.3 - Temporary Project
Dashboard Target Proxy Intruder Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Discover
Intercept HTTP history WebSockets history Match and replace Proxy settings
Filter settings: Hiding CSS and image content; hiding specific extensions
Filter on
Host Method Params URL Edited Status code Length MIME type Extension Title
12 http://127.0.0.1:3000 GET ✓ /socket.io/?EIO=4&transport=polling&t=PnXLnAB 200 326 text io/
15 http://127.0.0.1:3000 GET /rest/admin/application-configuration 200 22119 JSON
16 http://127.0.0.1:3000 GET /rest/admin/application-version 200 404 JSON
14 http://127.0.0.1:3000 GET /rest/languages 200 5246 JSON
13 http://127.0.0.1:3000 GET ✓ /api/Challenges/?name=Score%20Board 200 835 JSON
17 http://127.0.0.1:3000 GET /api/Quantitys/ 200 6646 JSON
18 http://127.0.0.1:3000 GET ✓ /rest/products/search?q= 200 14033 JSON
19 http://127.0.0.1:3000 GET /rest/admin/application-version 304 304
20 http://127.0.0.1:3000 GET /rest/admin/application-configuration 304 306
21 http://127.0.0.1:3000 POST ✓ /socket.io/?EIO=4&transport=polling&t=PnXLnE2&sid=ysC81o95Za99Lq5jAABY 200 215 HTML io/
25 http://127.0.0.1:3000 GET ✓ /socket.io/?EIO=4&transport=polling&t=PnXLnE5&sid=ysC81o95Za99Lq5jAABY 200 262 text io/
Request
Pretty Raw Hex
GET /rest/products/search?q= HTTP/1.1
Host: 127.0.0.1:3000
sec-ch-ua-platform: "Linux"
Accept-Language: en-US,en;q=0.9
Accept: application/json, text/plain, */*
sec-ch-ua: "Chromium";v="145", "Not:A-Brand";v="99"
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/145.0.0.0 Safari/537.36
sec-ch-ua-mobile: ?0
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: cors
Sec-Fetch-Dest: empty
Referer: http://127.0.0.1:3000/
Accept-Encoding: gzip, deflate, br
Connection: keep-alive
Response
Pretty Raw Hex Render
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
X-Content-Type-Options: nosniff
X-Frame-Options: SAMEORIGIN
Feature-Policy: payment 'self'
X-Recruiting: /#/jobs
Content-Type: application/json; charset=utf-8
ETag: W/"354c-iOg5zWQq+B1eIbj8lX/fv7ZMA6U"
Vary: Accept-Encoding
Date: Sun, 15 Feb 2026 12:47:02 GMT
Connection: keep-alive
Keep-Alive: timeout=5
Content-Length: 13644
{
"status":"success",
"data":[
{
"id":1,
"name":"Apple Juice (1000ml)",
"description":"The all-time classic.",
"price":1.99,
"deluxePrice":0.99,
"image":"apple_juice.jpg",
"createdAt":"2026-02-15 11:43:37.622 +00:00",
"updatedAt":"2026-02-15 11:43:37.622 +00:00",
"deletedAt":null
},
{
"id":24,
"name":"Apple Pomace",
"description":
"Finest pressings of apples. Allergy disclaimer: Might contain trac
Inspector
Request attributes 2
Request query parameters 1
Request headers 13
Response headers 12
Inspector
Notes