

Part 1: Environment Setup

1. Understand the Application: **Done**

- Review the Flask app in the before/ directory. **Done**
- Note common vulnerabilities such as hardcoded secrets, eval() usage, command injection, and insecure defaults. **Done**

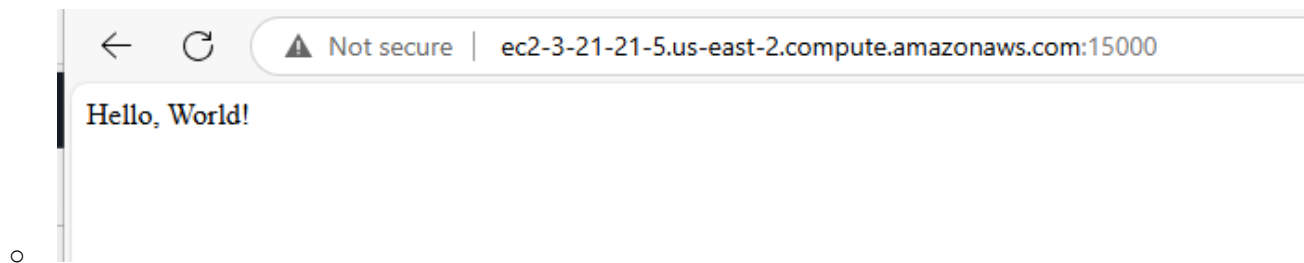
2. Set up Environment:

- My instance name is: ec2-3-21-21-5.us-east-2.compute.amazonaws.com
- My key is my-key.pem or in putty (to use GUI) it is my-keyPutty.ppk. Path to my key C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem
- To connect to my instance in power shell I use: ssh -i .\my-key.pem ec2-user@ec2-3-21-21-5.us-east-2.compute.amazonaws.com
- Learned - you need to have your SSH key pair and instance name to connect and run each command. Protect your key pair.
- I used Win SCP to move files because powershell was too complicated. To use Win SCP I had to convert my key from pem to ppk.
- I moved the files under home/ec2-user/ on the instance
- Learned - Security group for EC2 instance should allow inbound SSH traffic (port 22). We set this up when setting up the instance and established this firewall rule in network settings.
- Powershell output for Part 1 is located in this doc in Appendix A so you can see all the steps, commands I used.

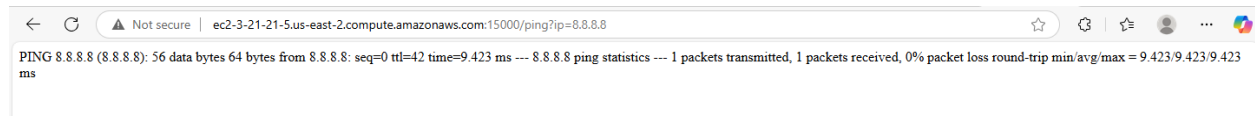
3. Run the Environment:

- Use make start to launch the application. **Done – see doc called Powershell for Part 1 for all the details on commands I ran. What worked, what didn't work and more.**
- Test the endpoints: /, /ping?ip=8.8.8.8, and /calculate?expr=2+3. **Done.**

1. Below confirms that Flask app is running successfully in Docker on the AWS EC2 instance and my browser can reach it:

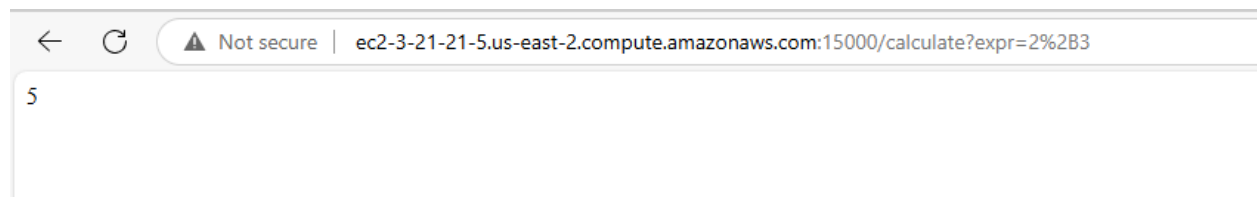


2. Ping returned the below:



3. For calculate I kept getting 'internal error' as it was treating + as a string. So I had to change the command to below and then it returned the below:

Command: `ec2-3-21-21-5.us-east-2.compute.amazonaws.com:15000/calculate?expr=2%2B3`



4. Initial Scanning:

- Run make check, make scan, and make host-security.
 - 1. Make check – **Done see doc called Powershell for Part 1**
 - 2. Make scan – **couldn't run because I got error. Sees like I need to install Docker Scout plug in. I tried installing but it didn't work because I already had newer version. Then I tried Trivy. I was able to install Trivy and run scan with this command instead:**

trivy image mywebapp:latest

That worked !
 - 3. Record identified vulnerabilities and misconfigurations. **The report summary is below. Recording completed and on GitHub.**

Report Summary

Target	Type	Vulnerabilities	Secrets
mywebapp:latest (alpine 3.21.3)	alpine	1	-
usr/local/lib/python3.9/site-packages/MarkupSafe-3.0.2.dist-info/METADATA	python-pkg	0	-
usr/local/lib/python3.9/site-packages/blinker-1.9.0.dist-info/METADATA	python-pkg	0	-
usr/local/lib/python3.9/site-packages/click-8.1.8.dist-info/METADATA	python-pkg	0	-
usr/local/lib/python3.9/site-packages/flask-3.0.3.dist-info/METADATA	python-pkg	0	-
usr/local/lib/python3.9/site-packages/importlib_metadata-8.7.0.dist-info/METADATA	python-pkg	0	-
usr/local/lib/python3.9/site-packages/itsdangerous-2.2.0.dist-info/METADATA	python-pkg	0	-
usr/local/lib/python3.9/site-packages/jinja2-3.1.6.dist-info/METADATA	python-pkg	0	-
usr/local/lib/python3.9/site-packages/pip-23.0.1.dist-info/METADATA	python-pkg	1	-
usr/local/lib/python3.9/site-packages/setuptools-58.1.0.dist-info/METADATA	python-pkg	2	-
usr/local/lib/python3.9/site-packages/werkzeug-3.1.3.dist-info/METADATA	python-pkg	0	-
usr/local/lib/python3.9/site-packages/wheel-0.45.1.dist-info/METADATA	python-pkg	0	-
usr/local/lib/python3.9/site-packages/zip-3.21.0.dist-info/METADATA	python-pkg	0	-
/app/my-key.pem	text	-	1

Legend:

- '-': Not scanned
- '0': Clean (no security findings detected)

mywebapp:latest (alpine 3.21.3)

Total: 1 (UNKNOWN: 0, LOW: 0, MEDIUM: 0, HIGH: 1, CRITICAL: 0)

Library	Vulnerability	Severity	Status	Installed Version	Fixed Version	Title
sqlite-libs	CVE-2025-29087	HIGH	fixed	3.48.0-r0	3.48.0-r1	sqlite: Integer Overflow in SQLite concat_ws Function https://avd.aquasec.com/nvd/cve-2025-29087

Python (python-pkg)

Total: 3 (UNKNOWN: 0, LOW: 0, MEDIUM: 1, HIGH: 2, CRITICAL: 0)

Library	Vulnerability	Severity	Status	Installed Version	Fixed Version	Title
pip (METADATA)	CVE-2023-5752	MEDIUM	fixed	23.0.1	23.3	pip: Mercurial configuration injectable in repo revision when installing via pip https://avd.aquasec.com/nvd/cve-2023-5752
setuptools (METADATA)	CVE-2022-40897	HIGH		58.1.0	65.5.1	pypa-setuptools: Regular Expression Denial of Service (ReDoS) in package_index.py https://avd.aquasec.com/nvd/cve-2022-40897
	CVE-2024-6345				70.0.0	pypa/setuptools: Remote code execution via download functions in the package_index module in... https://avd.aquasec.com/nvd/cve-2024-6345

/app/my-key.pem (secrets)

Total: 1 (UNKNOWN: 0, LOW: 0, MEDIUM: 0, HIGH: 1, CRITICAL: 0)

HIGH: AsymmetricPrivateKey (private-key)

Asymmetric Private Key

/app/my-key.pem:1 (added by 'COPY . . # buildkit')

Part 2: Secure the App and Container

1. Code Remediation:

- Refactor app.py to:
 - Eliminate hardcoded passwords.
 - a. So there was a hard coded password in the code of the file – this line below:
`PASSWORD = "supersecretpassword"`
I changed it to
`PASSWORD = os.environ.get("APP_PASSWORD")` as shown in image below. This step ensures there are no hard coded passwords preventing threat actors from gaining access to the passwords.
 - b. Then I added below code to my docker compose file environment:
 - APP_PASSWORD=your-strong-password
 - c. Then I uploaded both updated files to my terminal, docker compose and app.py.

```
services:
  web:
    build: .
    image: mywebapp
    ports:
      - "15000:5000"
    depends_on:
      - db
    networks:
      - frontend
  db:
    image: postgres:13
    environment:
      POSTGRES_USER: user
      POSTGRES_PASSWORD: password
      POSTGRES_DB: mydb
      - APP_PASSWORD=your-strong-password
    networks:
      - backend
networks:
  frontend:
  backend:
```

- Replace `eval()` with `ast.literal_eval`.

a. I opened the app.py file again. On top added import ast and then replaced the code 'result = eval(expression)' with the below:

try:

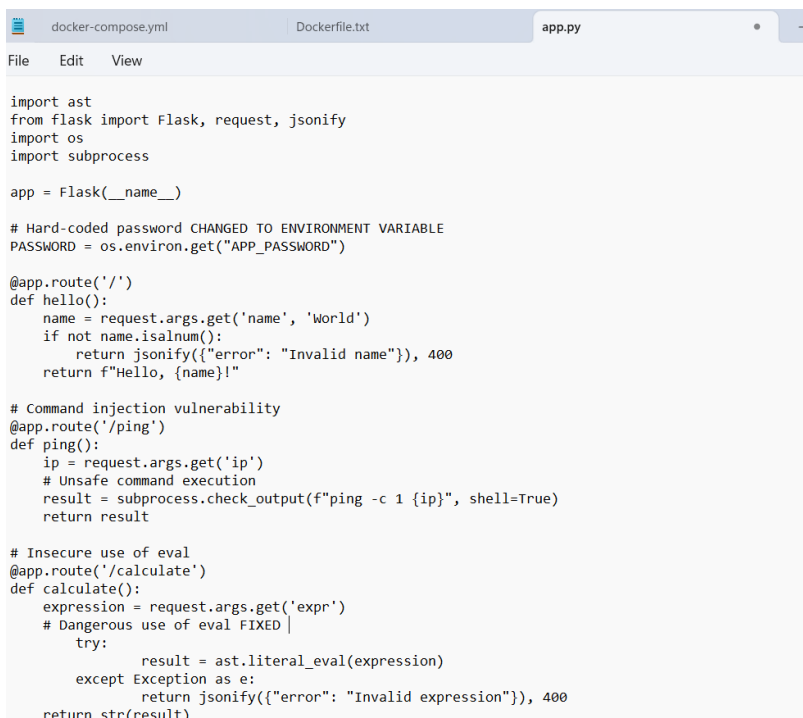
```
result = ast.literal_eval(expression)
```

except Exception as e:

```
return jsonify({"error": "Invalid expression"}), 400
```

This step helps with preventing arbitrary code execution. Eval() will run any code, but the ast.literal only parses Python literals. Any other syntax raises an exception. The 400 code helps catch the malicious code and returns the error.

I uploaded the updated file to my terminal



```
import ast
from flask import Flask, request, jsonify
import os
import subprocess

app = Flask(__name__)

# Hard-coded password CHANGED TO ENVIRONMENT VARIABLE
PASSWORD = os.environ.get("APP_PASSWORD")

@app.route('/')
def hello():
    name = request.args.get('name', 'World')
    if not name.isalnum():
        return jsonify({"error": "Invalid name"}), 400
    return f"Hello, {name}!"

# Command injection vulnerability
@app.route('/ping')
def ping():
    ip = request.args.get('ip')
    # Unsafe command execution
    result = subprocess.check_output(f"ping -c 1 {ip}", shell=True)
    return result

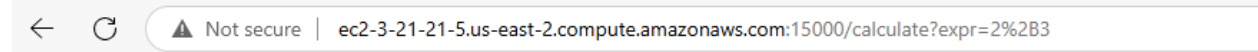
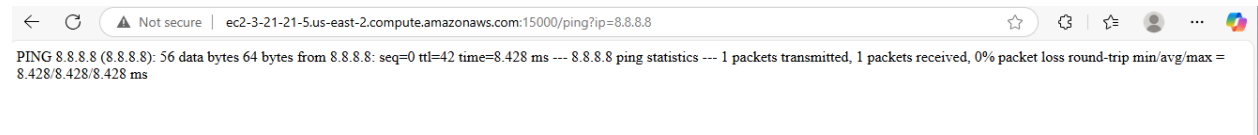
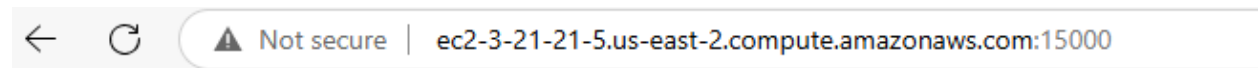
# Insecure use of eval
@app.route('/calculate')
def calculate():
    expression = request.args.get('expr')
    # Dangerous use of eval FIXED |
    try:
        result = ast.literal_eval(expression)
    except Exception as e:
        return jsonify({"error": "Invalid expression"}), 400
    return str(result)
```

o Validate all inputs.

a. I initially couldn't validate the docker compose file because there were syntax errors and spacing issues. I fixed it as per screen shot below and then it worked.

```
db:
  image: postgres:13
  environment:
    - POSTGRES_USER=user
    - POSTGRES_PASSWORD=password
    - POSTGRES_DB=mydb
    - APP_PASSWORD=your-strong-password
  networks:
```

- b. Then I checked my app.py file for errors
- c. I validated my updates as per below and got valid outputs.



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- d. Then I validated for docker compose as per below.

```
[ec2-user@ip-172-31-11-127 ~]$ docker-compose down
[+] Running 4/4
  ✓ Container ec2-user-web-1      Removed
  ✓ Container ec2-user-db-1       Removed
  ✓ Network ec2-user_backend      Removed
  ✓ Network ec2-user_frontend     Removed
[ec2-user@ip-172-31-11-127 ~]$ docker-compose build
Compose can now delegate builds to bake for better performance.
To do so, set COMPOSE_BAKE=true.
[+] Building 24.9s (12/12) FINISHED
=> [web internal] load build definition from Dockerfile
=> == transferring dockerfile: 322B
=> [web internal] load metadata for docker.io/library/python:3.9-alpine
=> [web internal] load .dockerignore
=> == transferring context: 2B
=> [web 1/6] FROM docker.io/library/python:3.9-alpine
=> [web internal] load build context
=> == transferring context: 666.85MB
=> CACHED [web 2/6] RUN addgroup -S appgroup && adduser -S appuser -G appgroup
=> CACHED [web 3/6] WORKDIR /app
=> CACHED [web 4/6] COPY requirements.txt .
=> CACHED [web 5/6] RUN pip install --no-cache-dir -r requirements.txt
=> [web 6/6] COPY . .
=> [web] exporting to image
=> == exporting layers
=> == writing image sha256:d5b8678e84cf60e77e49047f1f4a4e3b9885f9e1da41159c37dee328d62e5f82
=> == naming to docker.io/library/mywebapp
=> [web] resolving provenance for metadata file
[+] Building 1/1
  ✓ web Built
[ec2-user@ip-172-31-11-127 ~]$ docker-compose up -d
[+] Running 8/4
  ✓ Network ec2-user_backend      Created
  ✓ Network ec2-user_frontend     Created
  ✓ Container ec2-user-db-1       Started
  ✓ Container ec2-user-web-1      Started
[ec2-user@ip-172-31-11-127 ~]$
```

- o Restrict Flask to localhost.

- a. I updated the host below. 0.0.0.0 means Flask will accept connections from any IP. But 127.0.0.1 means Flask will only accept connections from the same machine or local host. This helps prevent threat actors from connecting maliciously !! I then uploaded the updated file to my instance. And rebuilt and restarted my docker container with no errors as shown below

```
if __name__ == '__main__':  
    app.run(host='127.0.0.1', port=5000)  
|
```

```
[ec2-user@ip-172-31-11-127 ~]$ docker-compose down  
[+] Running 4/4  
✓Container ec2-user-web-1    Removed  
✓Container ec2-user-db-1    Removed  
✓Network ec2-user_frontend  Removed  
✓Network ec2-user_backend  Removed  
[ec2-user@ip-172-31-11-127 ~]$ docker-compose build  
Compose can now delegate builds to bake for better performance.  
To do so, set COMPOSE_BAKE=true.  
[+] Building 14.6s (12/12) FINISHED  
=> [web internal] load build definition from Dockerfile  
=> => transferring dockerfile: 322B  
=> [web internal] load metadata for docker.io/library/python:3.9-alpine  
=> [web internal] load .dockerignore  
=> => transferring context: 2B  
=> [web 1/6] FROM docker.io/library/python:3.9-alpine  
=> [web internal] load build context  
=> => transferring context: 4.94kB  
=> CACHED [web 2/6] RUN addgroup -S appgroup && adduser -S appuser -G appgroup  
=> CACHED [web 3/6] WORKDIR /app  
=> CACHED [web 4/6] COPY requirements.txt .  
=> CACHED [web 5/6] RUN pip install --no-cache-dir -r requirements.txt  
=> [web 6/6] COPY . .  
=> [web] exporting to image  
=> => exporting layers  
=> => writing image sha256:af5867773a02f5a91237b622ab1e0d6f883dc8dad1e080f0e9233aac1eef3232  
=> => naming to docker.io/library/mywebapp  
=> [web] resolving provenance for metadata file  
[+] Building 1/1  
✓web Built  
[ec2-user@ip-172-31-11-127 ~]$ docker-compose up -d  
[+] Running 4/4  
✓Network ec2-user_frontend  Created  
✓Network ec2-user_backend  Created  
✓Container ec2-user-db-1    Started  
✓Container ec2-user-web-1    Started  
[ec2-user@ip-172-31-11-127 ~]$ |
```

2. Docker Hardening:

- Use a minimal base image. This makes base image for docker smaller, more secure and faster to build and run.

- a. First I already have 3.9 alpine (as shown in my docker file below) so it's a smaller file than python 3.9. So we r good here. Key best practices here to keep in mind
 - 1. Install only what is needed
 - 2. Using multistage builds
 - 3. Cleaning up cache and temp files after installing stuff.

```
FROM python:3.9-alpine

RUN addgroup -S appgroup && adduser -S appuser -G appgroup

WORKDIR /app

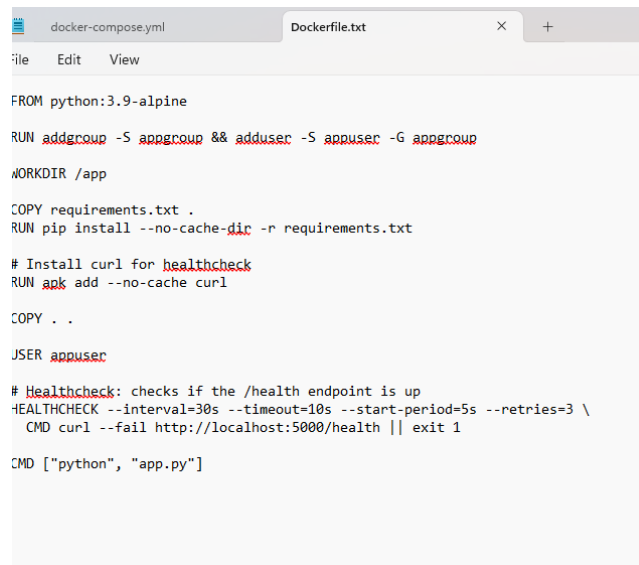
COPY requirements.txt .
RUN pip install --no-cache-dir -r requirements.txt

COPY . .

USER appuser

CMD ["python", "app.py"]
```

- o Ensure the app runs as a non-root user.
 - a. My docker file already has the code: RUN addgroup -S appgroup && adduser -S appuser -G appgroup
 - b. This means it creates a non root user and group and switch to that user before running the app. Hence the app will run as appuser and not the root.
 - c. This helps limit impact of compromise , permissions are of non root user and so the person logged in cannot install system packages, modify system files, or change container info or escalate privileges. This follows least privilege and protects the host.
- o Add a HEALTHCHECK directive.
 - a. I updated my docker file:



```
FROM python:3.9-alpine

RUN addgroup -S appgroup && adduser -S appuser -G appgroup

WORKDIR /app

COPY requirements.txt .
RUN pip install --no-cache-dir -r requirements.txt

# Install curl for healthcheck
RUN apk add --no-cache curl

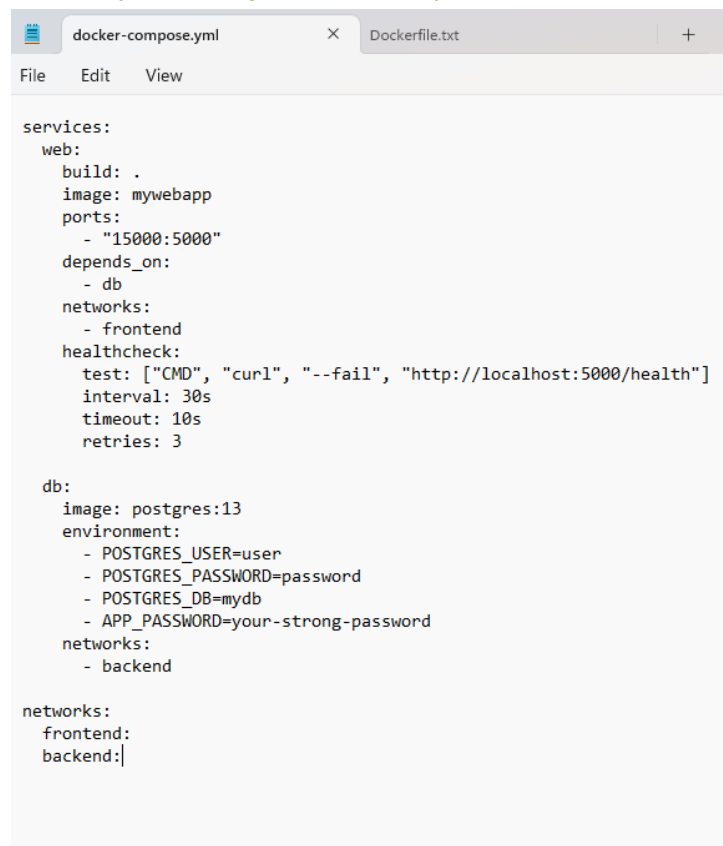
COPY . .

USER appuser

# Healthcheck: checks if the /health endpoint is up
HEALTHCHECK --interval=30s --timeout=10s --start-period=5s --retries=3 \
  CMD curl --fail http://localhost:5000/health || exit 1

CMD ["python", "app.py"]
```

b. Then I updated my docker compose file



```
services:
  web:
    build: .
    image: mywebapp
    ports:
      - "15000:5000"
    depends_on:
      - db
    networks:
      - frontend
    healthcheck:
      test: ["CMD", "curl", "--fail", "http://localhost:5000/health"]
      interval: 30s
      timeout: 10s
      retries: 3

  db:
    image: postgres:13
    environment:
      - POSTGRES_USER=user
      - POSTGRES_PASSWORD=password
      - POSTGRES_DB=mydb
      - APP_PASSWORD=your-strong-password
    networks:
      - backend

networks:
  frontend:
  backend:
```

c. Then I uploaded the updated files onto my instance

d. Then I rebuilt and restarted the containers.

```

[ec2-user@ip-172-31-11-127 ~]$ docker-compose up --build -d
Compose can now delegate builds to bake for better performance.
To do so, set COMPOSE_BAKE=true.
[+] Building 15.6s (13/13) FINISHED
=> [web internal] load build definition from Dockerfile
=> => transferring dockerfile: 563B
=> [web internal] load metadata for docker.io/library/python:3.9-alpine
=> [web internal] load .dockerignore
=> => transferring context: 2B
=> [web 1/7] FROM docker.io/library/python:3.9-alpine
=> [web internal] load build context
=> => transferring context: 7.26kB
=> CACHED [web 2/7] RUN addgroup -S appgroup && adduser -S appuser -G appgroup
=> CACHED [web 3/7] WORKDIR /app
=> CACHED [web 4/7] COPY requirements.txt .
=> CACHED [web 5/7] RUN pip install --no-cache-dir -r requirements.txt
=> [web 6/7] RUN apk add --no-cache curl
=> [web 7/7] COPY . .
=> [web] exporting to image
=> => exporting layers
=> => writing image sha256:6dd8fba10ded0d50c807d39089401ceccbea7e8162dbf059151f7891708988ce
=> => naming to docker.io/library/mywebapp
=> [web] resolving provenance for metadata file
[+] Running 3/3
✔web Built
✔Container ec2-user-db-1 Running
✔Container ec2-user-web-1 Started
[ec2-user@ip-172-31-11-127 ~]$ |

```

e. Adding a health check improves security and reliability of the app by:

1. Early detection of compromised or broken containers
2. Reduced attack surface from broken apps
3. Supports automated recovery
4. Improves monitoring and alerting

- Implement multi-stage builds if possible. I tried this but it kept erroring out and I couldn't figure out how to fix it. I was unable to do this and had to eventually revert

3. docker-compose.yml Improvements:

- Add read_only, security_opt, mem_limit, and pids_limit.
- Restrict port exposure to 127.0.0.1.
- Use .env files for secret handling.

a. First I updated the code of the file as per below.

b. Then I created a .env file with code below:

POSTGRES_USER=user

POSTGRES_PASSWORD=password

POSTGRES_DB=mydb

APP_PASSWORD=your-strong-password

c. I uploaded both to my instance

d. Ran docker-compose up --build -d and got the below

```
version: '3.8'
```

```
services:
```

```
  web:
```

```
    build: .
```

```
    image: mywebapp
```

```
    ports:
```

```
      - "127.0.0.1:15000:5000"
```

```
    depends_on:
```

```
      - db
```

```
    networks:
```

```
      - frontend
```

```
    healthcheck:
```

```
      test: ["CMD", "curl", "--fail", "http://localhost:5000/health"]
```

```
      interval: 30s
```

```
      timeout: 10s
```

```
      retries: 3
```

```
    read_only: true
```

```
    security_opt:
```

```
      - no-new-privileges:true
```

```
    mem_limit: 256m
```

```
    pids_limit: 100
```

```
    env_file:
```

```
      - .env
```

```
  db:
```

```
    image: postgres:13
```

```
    networks:
```

```
      - backend
```

```
    env_file:
```

```
      - .env
```

```
    read_only: true
```

```
    security_opt:
```

```
      - no-new-privileges:true
```

```
    mem_limit: 512m
```

```
    pids_limit: 100
```

```
networks:
```

```
  frontend:
```

```
  backend:
```

```
ec2-user@ip-172-31-11-127 ~]$ docker-compose up --build -d
WARN[0800] /home/ec2-user/docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion
compose can now delegate builds to bake for better performance.
To do so, set COMPOSE_BAKE=true.
[*] Building 14.7s (13/13) FINISHED
=> [web internal] load build definition from Dockerfile
=> => transferring dockerfile: 563B
=> [web internal] load metadata for docker.io/library/python:3.9-alpine
=> [web internal] load .dockerignore
=> => transferring context: 2B
=> [web 1/7] FROM docker.io/library/python:3.9-alpine
=> [web internal] load build context
=> => transferring context: 5.11MB
=> CACHED [web 2/7] RUN addgroup -S appgroup && adduser -S appuser -G appgroup
=> CACHED [web 3/7] WORKDIR /app
=> CACHED [web 4/7] COPY requirements.txt
=> CACHED [web 5/7] RUN pip install --no-cache-dir -r requirements.txt
=> CACHED [web 6/7] RUN apt add --no-cache curl
=> [web 7/7] COPY .
=> [web] exporting to image
=> => exporting layers
=> writing image sha256:687d3021bdd9ea99ffdb2aled811a52739ebfc4a82cb83684e74eb7e17c6785c
=> => naming to docker.io/library/mywebapp
=> [web] resolving provenance for metadata file
[*] Running 3/3
✓web Built
✓Container ec2-user-db-1 Started
✓Container ec2-user-web-1 Started
ec2-user@ip-172-31-11-127 ~]$
```

- e. These steps harden the containers and reduce the risk of attack. It helps protect sensitive data and system resources.
- f. Read_only makes container file system read only to protect it from edits.
- g. Security_opt prevents processes in container from gaining additional privileges.
- h. Mem_limit restricts max amount of memory a container can use
- i. Pids_limit limits number of process IDs a container can create.
- j. Port restriction binds exposed port to local host
- k. The env file moves sensitive environment variables out of docker and into a separate file – protecting it.

Part 3: Threat Modeling

1. Threat Model Documentation:

- Perform STRIDE analysis on the app.
 - a. I downloaded the stride.py file and moved it to my instance
 - b. I did not have a cloud formation template and so had to create one.
 - c. Then it worked

```
[ec2-user@ip-172-31-11-127 ~]$ python3 stride.py mytemplate.json
Analyzing template: mytemplate.json...
Threat model report generated: threat_model_report.md
[ec2-user@ip-172-31-11-127 ~]$
```

- Use MITRE ATT&CK for Containers to identify relevant techniques.
- Create a table mapping vulnerabilities to controls (e.g., NIST 800-53).

2. Save and Submit:

- Write results in deliverables/threat_model.md. I was able to do this and create the threat_model.md file and upload to Git under deliverables. Key threats are as below:
 - a. Ingress rule allows traffic from anywhere on port 22. This is a security risk as anyone can connect. This can lead to Spoofing, Information disclosure, or denial of service attacks. This can be mitigated by restricting access to trusted Ips only.
 - b. SSH port appears open to anyone and everyone on the internet. Similar to above this can lead to Spoofing, Information disclosure, or Elevation of privileges. This can be mitigated using VPN or secure connections that are limited.

Part 4: Security Architecture Implementation

1. Architecture Design:

- Draft a diagram showing the hardened app infrastructure (use tools like Lucidchart or draw.io).
- Save as deliverables/architecture_diagram.png.
 - a. I wrote the script to generate the diagram file. However it kept failing because I didn't have any space.
 - b. I had to do major clean up of the root. Unhide hidden files, clean up volumes and delete all older unnecessary files.
 - c. Then I was finally able to move the script to the instance, and generate the diagram.

2. Auto-Hardening Script:

- Write a Python script (docker_security_fixes.py) to:
 - Update daemon.json with hardening flags.

- ```
[ec2-user@ip-172-31-11-127 ~]$ sudo python3 docker_security_fixes
Updated /etc/docker/daemon.json with hardening flags.
Checked/updated Dockerfile for USER and HEALTHCHECK.
Checked/updated docker-compose.yml for limits and security options
[ec2-user@ip-172-31-11-127 ~]$ sudo systemctl restart docker
```

[illegible]

```

[ec2-user@ip-172-31-11-127 ~]$ docker system prune --a --volumes
WARNING: This will remove:
 - all stopped containers
 - all dangling images
 - all dangling networks
 - all anonymous volumes not used by at least one container
 - all images without at least one container associated to them
 - all build cache

Are you sure you want to continue? [y/N] y
Deleted build cache objects:
d0c18c3b487a796f3038363
bf6b3f169b2958d40365
5d6ed00619191f116f64f
7c9b80d0c3f154c3491d7
d1c91901c38d4c978e5b8d8b
m0d10u37f170t8f921e1u1
qqd0f04706f720c30e1f0
07v213uttr0dqwf115f5f
bta1j1s4m6vg3zanu558a555
7d16f97eug0m030
f7m09f99awp0c37000f0
6801932f2fmbc8d1k1e1cuf1
n1xr90z373c1v4wzd1e191.

Total reclaimed space: 990.6MB
[ec2-user@ip-172-31-11-127 ~]$ sudo journalctl --vacuum-time=2h
Deleted 68 of archived journals from /var/log/journal/
Vacuuming done, freed 68 of archived journals from /var/log/journal/
Vacuuming done, freed 68 of archived journals from /var/log/journal/
Deleted 68 of archived journals from /var/log/journal/
[ec2-user@ip-172-31-11-127 ~]$ sudo rm -rf /var/log/journal/*
[ec2-user@ip-172-31-11-127 ~]$

```

Tried again but same issue – no space left on device – have to move on



## Appendix A: Powershell for Part 1

Windows PowerShell

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Install the latest PowerShell for new features and improvements!

<https://aka.ms/PSWindows>

```
PS C:\Users\zehra> cd C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem
```

```
cd : Cannot find path 'C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem' because it does not exist.
```

```
At line:1 char:1
```

```
+ cd C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem
```

```
+ ~~~~~
```

```
+ CategoryInfo : ObjectNotFound: (C:\Users\zehra\...hHW7\my-key.pem:String) [Set-Location], ItemNotFoundE
```

```
xception
```

```
+ FullyQualifiedErrorId :
```

```
PathNotFound,Microsoft.PowerShell.Commands.SetLocationCommand
```

```
PS C:\Users\zehra> cd C:\Users\zehra\Desktop\CyberArchHW7
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> chmod 400 my-key.pem
```

```
chmod : The term 'chmod' is not recognized as the name of a cmdlet, function, script file, or operable program. Check
```

```
the spelling of the name, or if a path was included, verify that the path is correct and try again.
```

```
At line:1 char:1
```

```
+ chmod 400 my-key.pem
```

```
+ ~~~~~
```

```
+ CategoryInfo : ObjectNotFound: (chmod:String) [], CommandNotFoundException
```

```
+ FullyQualifiedErrorId : CommandNotFoundException
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> ssh -i .\my-key.pem ec2-user@ec2-3-21-21-5.us-east-2.compute.amazonaws.com
```

The authenticity of host 'ec2-3-21-21-5.us-east-2.compute.amazonaws.com (3.21.21.5)' can't be established.

ED25519 key fingerprint is SHA256:r/VQlrXaaFwK+NAD+H2ZWzq6LiQVlPoxeqa3JePfAmY.

This key is not known by any other names.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added 'ec2-3-21-21-5.us-east-2.compute.amazonaws.com' (ED25519) to the list of known hosts.

```
, #_
```

```
~_ #####_ Amazon Linux 2023
```

```
~~ _#####\
```

```
~~ \###|
```

```
~~ \#/ __ https://aws.amazon.com/linux/amazon-linux-2023
```

```
~~ V~' '->
```

```
~~~ /
```

```
~~._. _/
```

```
_/_/
```

```
_/m/'
```

```
[ec2-user@ip-172-31-11-127 ~]$
```

```
[ec2-user@ip-172-31-11-127 ~]$ sudo yum update -y
```

```
sudo amazon-linux-extras install docker
```



```
sudo service docker start
```

```
sudo usermod -a -G docker ec2-user
```

```
Amazon Linux 2023 Kernel Livepatch repository  
00:00
```

161 kB/s | 16 kB

```
Dependencies resolved.
```

```
Nothing to do.
```

```
Complete!
```

```
sudo: amazon-linux-extras: command not found
```

```
Redirecting to /bin/systemctl start docker.service
```

```
Failed to start docker.service: Unit docker.service not found.
```

```
usermod: group 'docker' does not exist
```

```
[ec2-user@ip-172-31-11-127 ~]$ yum update -y
```

```
Error: This command has to be run with superuser privileges (under the root user on most  
systems).
```

```
[ec2-user@ip-172-31-11-127 ~]$ sudo yum update -y
```

```
Last metadata expiration check: 0:02:21 ago on Mon May 5 13:34:10 2025.
```

```
Dependencies resolved.
```

```
Nothing to do.
```

```
Complete!
```

```
[ec2-user@ip-172-31-11-127 ~]$ sudo amazon-linux-extras install docker -y
```

```
sudo: amazon-linux-extras: command not found
```

```
[ec2-user@ip-172-31-11-127 ~]$ cat /etc/os-release
```

```
NAME="Amazon Linux"
```

```
VERSION="2023"
```

```
ID="amzn"
```

```
ID_LIKE="fedora"
```

VERSION\_ID="2023"  
PLATFORM\_ID="platform:al2023"  
PRETTY\_NAME="Amazon Linux 2023.7.20250428"  
ANSI\_COLOR="0;33"  
CPE\_NAME="cpe:2.3:o:amazon:amazon\_linux:2023"  
HOME\_URL="https://aws.amazon.com/linux/amazon-linux-2023/"  
DOCUMENTATION\_URL="https://docs.aws.amazon.com/linux/"  
SUPPORT\_URL="https://aws.amazon.com/premiumsupport/"  
BUG\_REPORT\_URL="https://github.com/amazonlinux/amazon-linux-2023"  
VENDOR\_NAME="AWS"  
VENDOR\_URL="https://aws.amazon.com/"  
SUPPORT\_END="2029-06-30"

[ec2-user@ip-172-31-11-127 ~]\$ sudo yum install -y docker

Last metadata expiration check: 0:05:13 ago on Mon May 5 13:34:10 2025.

Dependencies resolved.

|         |              |         |            |      |
|---------|--------------|---------|------------|------|
| =====   |              |         |            |      |
| =====   |              |         |            |      |
| Package | Architecture | Version | Repository | Size |
| =====   |              |         |            |      |
| =====   |              |         |            |      |

Installing:

|        |        |                       |             |      |
|--------|--------|-----------------------|-------------|------|
| docker | x86_64 | 25.0.8-1.amzn2023.0.3 | amazonlinux | 45 M |
|--------|--------|-----------------------|-------------|------|

Installing dependencies:

|                   |        |                       |             |       |
|-------------------|--------|-----------------------|-------------|-------|
| container-selinux | noarch | 3:2.233.0-1.amzn2023  | amazonlinux | 55 k  |
| containerd        | x86_64 | 1.7.27-1.amzn2023.0.2 | amazonlinux | 37 M  |
| iptables-libs     | x86_64 | 1.8.8-3.amzn2023.0.2  | amazonlinux | 401 k |

|                        |        |                       |             |       |
|------------------------|--------|-----------------------|-------------|-------|
| iptables-nft           | x86_64 | 1.8.8-3.amzn2023.0.2  | amazonlinux | 183 k |
| libcgroup              | x86_64 | 3.0-1.amzn2023.0.1    | amazonlinux | 75 k  |
| libnetfilter_conntrack | x86_64 | 1.0.8-2.amzn2023.0.2  | amazonlinux | 58 k  |
| libnftnl               | x86_64 | 1.0.1-19.amzn2023.0.2 | amazonlinux | 30 k  |
| libnftnl               | x86_64 | 1.2.2-2.amzn2023.0.2  | amazonlinux | 84 k  |
| pigz                   | x86_64 | 2.5-1.amzn2023.0.3    | amazonlinux | 83 k  |
| runc                   | x86_64 | 1.2.4-1.amzn2023.0.1  | amazonlinux | 3.4 M |

## Transaction Summary

```
=====
=====
```

Install 11 Packages

Total download size: 86 M

Installed size: 324 M

Downloading Packages:

```
(1/11): container-selinux-2.233.0-1.amzn2023.noarch.rpm      1.4 MB/s | 55 kB
00:00

(2/11): iptables-libs-1.8.8-3.amzn2023.0.2.x86_64.rpm      11 MB/s | 401 kB
00:00

(3/11): iptables-nft-1.8.8-3.amzn2023.0.2.x86_64.rpm       6.7 MB/s | 183 kB
00:00

(4/11): libcgroup-3.0-1.amzn2023.0.1.x86_64.rpm            2.4 MB/s | 75 kB
00:00

(5/11): libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64.rpm  2.6 MB/s | 58 kB
00:00
```

|                                                       |                  |       |
|-------------------------------------------------------|------------------|-------|
| (6/11): libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64.rpm | 1.3 MB/s   30 kB |       |
| 00:00                                                 |                  |       |
| (7/11): libnftnl-1.2.2-2.amzn2023.0.2.x86_64.rpm      | 2.8 MB/s   84 kB |       |
| 00:00                                                 |                  |       |
| (8/11): pigz-2.5-1.amzn2023.0.3.x86_64.rpm            | 3.0 MB/s   83 kB | 00:00 |
| (9/11): runc-1.2.4-1.amzn2023.0.1.x86_64.rpm          | 35 MB/s   3.4 MB |       |
| 00:00                                                 |                  |       |
| (10/11): containerd-1.7.27-1.amzn2023.0.2.x86_64.rpm  | 43 MB/s   37 MB  |       |
| 00:00                                                 |                  |       |
| (11/11): docker-25.0.8-1.amzn2023.0.3.x86_64.rpm      | 39 MB/s   45 MB  |       |
| 00:01                                                 |                  |       |

-----  
-----

|       |                 |       |
|-------|-----------------|-------|
| Total | 73 MB/s   86 MB | 00:01 |
|-------|-----------------|-------|

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

|                                                            |                                             |      |
|------------------------------------------------------------|---------------------------------------------|------|
| Preparing                                                  | :                                           | 1/1  |
| Installing                                                 | : runc-1.2.4-1.amzn2023.0.1.x86_64          | 1/11 |
| Installing                                                 | : containerd-1.7.27-1.amzn2023.0.2.x86_64   | 2/11 |
| Running scriptlet: containerd-1.7.27-1.amzn2023.0.2.x86_64 |                                             |      |
|                                                            |                                             | 2/11 |
| Installing                                                 | : pigz-2.5-1.amzn2023.0.3.x86_64            | 3/11 |
| Installing                                                 | : libnftnl-1.2.2-2.amzn2023.0.2.x86_64      | 4/11 |
| Installing                                                 | : libnfnetlink-1.0.1-19.amzn2023.0.2.x86_64 | 5/11 |

|                                                                                                                 |                                                      |       |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------|
| Installing                                                                                                      | : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64 |       |
| 6/11                                                                                                            |                                                      |       |
| Installing                                                                                                      | : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64          | 7/11  |
| Installing                                                                                                      | : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64           | 8/11  |
| Running scriptlet:                                                                                              | iptables-nft-1.8.8-3.amzn2023.0.2.x86_64             |       |
| 8/11                                                                                                            |                                                      |       |
| Installing                                                                                                      | : libcgroup-3.0-1.amzn2023.0.1.x86_64                | 9/11  |
| Running scriptlet:                                                                                              | container-selinux-3:2.233.0-1.amzn2023.noarch        |       |
| 10/11                                                                                                           |                                                      |       |
| Installing                                                                                                      | : container-selinux-3:2.233.0-1.amzn2023.noarch      |       |
| 10/11                                                                                                           |                                                      |       |
| Running scriptlet:                                                                                              | container-selinux-3:2.233.0-1.amzn2023.noarch        |       |
| 10/11                                                                                                           |                                                      |       |
| Running scriptlet:                                                                                              | docker-25.0.8-1.amzn2023.0.3.x86_64                  | 11/11 |
| Installing                                                                                                      | : docker-25.0.8-1.amzn2023.0.3.x86_64                | 11/11 |
| Running scriptlet:                                                                                              | docker-25.0.8-1.amzn2023.0.3.x86_64                  | 11/11 |
| Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket. |                                                      |       |
| Running scriptlet: container-selinux-3:2.233.0-1.amzn2023.noarch                                                |                                                      |       |
| 11/11                                                                                                           |                                                      |       |
| Running scriptlet:                                                                                              | docker-25.0.8-1.amzn2023.0.3.x86_64                  | 11/11 |
| Verifying                                                                                                       | : container-selinux-3:2.233.0-1.amzn2023.noarch      | 1/11  |
| Verifying                                                                                                       | : containerd-1.7.27-1.amzn2023.0.2.x86_64            | 2/11  |
| Verifying                                                                                                       | : docker-25.0.8-1.amzn2023.0.3.x86_64                | 3/11  |
| Verifying                                                                                                       | : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64          | 4/11  |
| Verifying                                                                                                       | : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64           | 5/11  |
| Verifying                                                                                                       | : libcgroup-3.0-1.amzn2023.0.1.x86_64                | 6/11  |

Verifying : libnetfilter\_conntrack-1.0.8-2.amzn2023.0.2.x86\_64  
7/11

Verifying : libnfnetlink-1.0.1-19.amzn2023.0.2.x86\_64 8/11

Verifying : libnftnl-1.2.2-2.amzn2023.0.2.x86\_64 9/11

Verifying : pigz-2.5-1.amzn2023.0.3.x86\_64 10/11

Verifying : runc-1.2.4-1.amzn2023.0.1.x86\_64 11/11

Installed:

container-selinux-3:2.233.0-1.amzn2023.noarch containerd-1.7.27-  
1.amzn2023.0.2.x86\_64

docker-25.0.8-1.amzn2023.0.3.x86\_64 iptables-libs-1.8.8-  
3.amzn2023.0.2.x86\_64

iptables-nft-1.8.8-3.amzn2023.0.2.x86\_64 libcgrou-3.0-  
1.amzn2023.0.1.x86\_64

libnetfilter\_conntrack-1.0.8-2.amzn2023.0.2.x86\_64 libnfnetlink-1.0.1-  
19.amzn2023.0.2.x86\_64

libnftnl-1.2.2-2.amzn2023.0.2.x86\_64 pigz-2.5-1.amzn2023.0.3.x86\_64  
runc-1.2.4-1.amzn2023.0.1.x86\_64

Complete!

[ec2-user@ip-172-31-11-127 ~]\$ sudo systemctl start docker

[ec2-user@ip-172-31-11-127 ~]\$ sudo systemctl enable docker

Created symlink /etc/systemd/system/multi-user.target.wants/docker.service →  
/usr/lib/systemd/system/docker.service.

[ec2-user@ip-172-31-11-127 ~]\$ sudo usermod -aG docker ec2-user

[ec2-user@ip-172-31-11-127 ~]\$ exit

logout

Connection to ec2-3-21-21-5.us-east-2.compute.amazonaws.com closed.

```
PS C:\Users\zehra\Desktop\CyberArchHW7> ssh -i .\my-key.pem ec2-user@ec2-3-21-21-5.us-east-2.compute.amazonaws.com
```

```
, #_
```

```
~\_ ####_ Amazon Linux 2023
```

```
~~ \_#####\
```

```
~~ \###|
```

```
~~ \#/ __ https://aws.amazon.com/linux/amazon-linux-2023
```

```
~~ V~' '->
```

```
~~~ /
```

```
~~._. _/
```

```
//
```

```
_/m/'
```

```
Last login: Mon May 5 13:30:20 2025 from 76.141.92.20
```

```
[ec2-user@ip-172-31-11-127 ~]$ docker version
```

```
Client:
```

```
Version: 25.0.8
```

```
API version: 1.44
```

```
Go version: go1.23.8
```

```
Git commit: 0bab007
```

```
Built: Fri Apr 11 00:00:00 2025
```

```
OS/Arch: linux/amd64
```

```
Context: default
```

```
Server:
```

```
Engine:
```

```
Version: 25.0.8
```

API version: 1.44 (minimum version 1.24)

Go version: go1.23.8

Git commit: 71907ca

Built: Fri Apr 11 00:00:00 2025

OS/Arch: linux/amd64

Experimental: false

containerd:

Version: 1.7.27

GitCommit: 05044ec0a9a75232cad458027ca83437aae3f4da

runc:

Version: 1.2.4

GitCommit: 6c52b3fc541fb26fe8c374d5f58112a0a5dbda66

docker-init:

Version: 0.19.0

GitCommit: de40ad0

```
[ec2-user@ip-172-31-11-127 ~]$ docker run hello world
```

Unable to find image 'hello:latest' locally

docker: Error response from daemon: pull access denied for hello, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.

See 'docker run --help'.

```
[ec2-user@ip-172-31-11-127 ~]$ docker run jellow-world
```

Unable to find image 'jellow-world:latest' locally

docker: Error response from daemon: pull access denied for jellow-world, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.

See 'docker run --help'.

```
[ec2-user@ip-172-31-11-127 ~]$ docker run hello-world
```

Unable to find image 'hello-world:latest' locally



latest: Pulling from library/hello-world

e6590344b1a5: Pull complete

Digest:

sha256:c41088499908a59aae84b0a49c70e86f4731e588a737f1637e73c8c09d995654

Status: Downloaded newer image for hello-world:latest

Hello from Docker!

This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.  
(amd64)
3. The Docker daemon created a new container from that image which runs the executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

```
$ docker run -it ubuntu bash
```

Share images, automate workflows, and more with a free Docker ID:

<https://hub.docker.com/>

For more examples and ideas, visit:

<https://docs.docker.com/get-started/>

[ec2-user@ip-172-31-11-127 ~]\$ sudo yum inatall make -y

No such command: inatall. Please use /usr/bin/yum --help

It could be a YUM plugin command, try: "yum install 'dnf-command(inatall)'"

[ec2-user@ip-172-31-11-127 ~]\$ sudo yum install make -y

Last metadata expiration check: 0:09:04 ago on Mon May 5 13:34:10 2025.

Dependencies resolved.

| =====   |              |         |            |      |
|---------|--------------|---------|------------|------|
| =====   |              |         |            |      |
| Package | Architecture | Version | Repository | Size |
| =====   |              |         |            |      |
| =====   |              |         |            |      |

Installing:

|      |        |                      |             |       |
|------|--------|----------------------|-------------|-------|
| make | x86_64 | 1:4.3-5.amzn2023.0.2 | amazonlinux | 534 k |
|------|--------|----------------------|-------------|-------|

Installing dependencies:

|              |        |                      |             |       |
|--------------|--------|----------------------|-------------|-------|
| gc           | x86_64 | 8.0.4-5.amzn2023.0.2 | amazonlinux | 105 k |
| guile22      | x86_64 | 2.2.7-2.amzn2023.0.3 | amazonlinux | 6.4 M |
| libtool-ltdl | x86_64 | 2.4.7-1.amzn2023.0.3 | amazonlinux | 38 k  |

Transaction Summary

| ===== |  |  |  |  |
|-------|--|--|--|--|
| ===== |  |  |  |  |

Install 4 Packages

Total download size: 7.1 M

Installed size: 46 M

Downloading Packages:

(1/4): libtool-ltdl-2.4.7-1.amzn2023.0.3.x86\_64.rpm 827 kB/s | 38 kB  
00:00

(2/4): gc-8.0.4-5.amzn2023.0.2.x86\_64.rpm 1.9 MB/s | 105 kB 00:00

(3/4): make-4.3-5.amzn2023.0.2.x86\_64.rpm 7.6 MB/s | 534 kB  
00:00

(4/4): guile22-2.2.7-2.amzn2023.0.3.x86\_64.rpm 45 MB/s | 6.4 MB  
00:00

-----  
-----

Total 41 MB/s | 7.1 MB 00:00

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

Preparing : 1/1

Installing : libtool-ltdl-2.4.7-1.amzn2023.0.3.x86\_64 1/4

Installing : gc-8.0.4-5.amzn2023.0.2.x86\_64 2/4

Installing : guile22-2.2.7-2.amzn2023.0.3.x86\_64 3/4

Installing : make-1:4.3-5.amzn2023.0.2.x86\_64 4/4

Running scriptlet: make-1:4.3-5.amzn2023.0.2.x86\_64 4/4

Verifying : gc-8.0.4-5.amzn2023.0.2.x86\_64 1/4

Verifying : guile22-2.2.7-2.amzn2023.0.3.x86\_64 2/4

Verifying : libtool-ltdl-2.4.7-1.amzn2023.0.3.x86\_64 3/4

Verifying : make-1:4.3-5.amzn2023.0.2.x86\_64 4/4

Installed:

```
gc-8.0.4-5.amzn2023.0.2.x86_64 guile22-2.2.7-2.amzn2023.0.3.x86_64 libtool-ltdl-
2.4.7-1.amzn2023.0.3.x86_64

make-1:4.3-5.amzn2023.0.2.x86_64
```

Complete!

```
[ec2-user@ip-172-31-11-127 ~]$ cd C:\Users\zehra\Desktop\CyberArchHW7
```

```
-bash: cd: C:UserszehraDesktopCyberArchHW7: No such file or directory
```

```
[ec2-user@ip-172-31-11-127 ~]$ exit
```

logout

Connection to ec2-3-21-21-5.us-east-2.compute.amazonaws.com closed.

```
PS C:\Users\zehra\Desktop\CyberArchHW7> scp -i my-key.pem * ec2-3-21-21-5.us-east-
2.compute.amazonaws.com:/home/ec2-user/
```

```
zehra@ec2-3-21-21-5.us-east-2.compute.amazonaws.com: Permission denied
(publickey,gssapi-keyex,gssapi-with-mic).
```

```
C:\WINDOWS\System32\OpenSSH\scp.exe: Connection closed
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> icac ls "C:\path\to\your\key\my-key.pem"
/inheritance:r /grant:r "$($env:USERNAME):(R)"
```

```
C:\path\to\your\key\my-key.pem: The system cannot find the path specified.
```

Successfully processed 0 files; Failed processing 1 files

```
PS C:\Users\zehra\Desktop\CyberArchHW7> icac ls "C:\path\to\your\key\my-key.pem"
/inheritance:r /grant:r "$($env:USERNAME):(R)"C:\Users\zehra\Desktop\CyberArchHW7
```

```
Invalid parameter "C:\Users\zehra\Desktop\CyberArchHW7"
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> icac ls
"C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem" /inheritance:r /grant:r
"$($env:USERNAME):(R)"
```

processed file: C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem

Successfully processed 1 files; Failed processing 0 files

```
PS C:\Users\zehra\Desktop\CyberArchHW7> scp -i "C:\path\to\your\key\my-key.pem"
"C:\path\to\your\local\file.txt" ec2-user@ec2-3-21-21-5.us-east-
2.compute.amazonaws.com:/home/ec2-user/
```

```
C:\WINDOWS\System32\OpenSSH\scp.exe: stat local "C:/path/to/your/local/file.txt": No
such file or directory
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> scp -i
"C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem" "
C:\Users\zehra\Desktop\CyberArchHW7\app.py" ec2-user@ec2-3-21-21-5.us-east-
2.compute.amazonaws.com:/home/ec2-user/
```

```
ssh: Could not resolve hostname c: No such host is known.
```

```
C:\WINDOWS\System32\OpenSSH\scp.exe: Connection closed
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> ssh -i "C:\path\to\your\key\my-key.pem" ec2-
user@ec2-3-21-21-5.us-east-2.compute.amazonaws.co
```

```
Warning: Identity file C:\path\to\your\key\my-key.pem not accessible: No such file or
directory.
```

```
ssh: Could not resolve hostname ec2-3-21-21-5.us-east-2.compute.amazonaws.co: No
such host is known.
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> ssh -i "
C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem" ec2-3-21-21-5.us-east-
2.compute.amazonaws.com
```

```
Warning: Identity file C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem not
accessible: No such file or directory.
```

```
zehra@ec2-3-21-21-5.us-east-2.compute.amazonaws.com: Permission denied
(publickey,gssapi-keyex,gssapi-with-mic).
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> get-command ssh
```

| CommandType | Name    | Version | Source                              |
|-------------|---------|---------|-------------------------------------|
| Application | ssh.exe | 9.5.4.1 | C:\WINDOWS\System32\OpenSSH\ssh.exe |

```
PS C:\Users\zehra\Desktop\CyberArchHW7> ssh -i "
```

```
C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem" ec2-3-21-21-5.us-east-2.compute.amazonaws.com
```

```
Warning: Identity file C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem not accessible: No such file or directory.
```

```
zehra@ec2-3-21-21-5.us-east-2.compute.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> ssh -i
```

```
"C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem" ec2-3-21-21-5.us-east-2.compute.amazonaws.com
```

```
zehra@ec2-3-21-21-5.us-east-2.compute.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> ssh -i
```

```
"C:\Users\zehra\Desktop\CyberArchHW7\my-key.pem" ec2-3-21-21-5.us-east-2.compute.amazonaws.co
```

```
ssh: Could not resolve hostname ec2-3-21-21-5.us-east-2.compute.amazonaws.co: No such host is known.
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> # Restrict permissions (only once)
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> icacls .\my-key.pem /inheritance:r /grant:r "$($env:USERNAME):(R)"
```

```
processed file: .\my-key.pem
```

```
Successfully processed 1 files; Failed processing 0 files
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7>
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> # SSH in
```

```
PS C:\Users\zehra\Desktop\CyberArchHW7> ssh -i .\my-key.pem ec2-user@ec2-3-21-21-5.us-east-2.compute.amazonaws.com
```

```
, #_
```

```
~_ ####_ Amazon Linux 2023
```

~~ \\_#####\

~~ \###|

~~ \#/ \_\_ https://aws.amazon.com/linux/amazon-linux-2023

~~ V~' '->

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Last login: Mon May 5 13:41:13 2025 from 76.141.92.20

[ec2-user@ip-172-31-11-127 ~]\$ cd /home/ec2-user

[ec2-user@ip-172-31-11-127 ~]\$ make build

make: \*\*\* No rule to make target 'build'. Stop.

[ec2-user@ip-172-31-11-127 ~]\$ make start

make: \*\*\* No rule to make target 'start'. Stop.

[ec2-user@ip-172-31-11-127 ~]\$ pwd

/home/ec2-user

[ec2-user@ip-172-31-11-127 ~]\$ docker --version

Docker version 25.0.8, build 0bab007

[ec2-user@ip-172-31-11-127 ~]\$ sudo systemctl status docker

● docker.service - Docker Application Container Engine

Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: disabled)

Active: active (running) since Mon 2025-05-05 13:40:14 UTC; 57min ago

TriggeredBy: ● docker.socket

Docs: <https://docs.docker.com>

Main PID: 28062 (dockerd)

Tasks: 10

Memory: 39.5M

CPU: 814ms

CGroup: /system.slice/docker.service

└─28062 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --  
default-ulim>

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8151">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8375">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8377">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8802">

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May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.8414">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.7233">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.7237">

May 05 13:41:59 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:59.5459">

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:40:14 UTC; 57min ago

ainerd=/run/containerd/containerd.sock --default-ulimit nofile=32768:65536

ternal dockerd[28062]: time="2025-05-05T13:40:14.815119943Z" level=info msg="Loading containers: done."

ternal dockerd[28062]: time="2025-05-05T13:40:14.837526018Z" level=info msg="Docker daemon" commit=71907ca>

ternal dockerd[28062]: time="2025-05-05T13:40:14.837772264Z" level=info msg="Daemon has completed initiali>

ternal dockerd[28062]: time="2025-05-05T13:40:14.880232203Z" level=info msg="API listen on /run/docker.soc>

ternal systemd[1]: Started docker.service - Docker Application Container Engine.

ternal dockerd[28062]: time="2025-05-05T13:41:35.840416294Z" level=error msg="Not continuing with pull aft>

ternal dockerd[28062]: time="2025-05-05T13:41:35.841493810Z" level=info msg="Ignoring extra error returned>

ternal dockerd[28062]: time="2025-05-05T13:41:51.723341690Z" level=error msg="Not continuing with pull aft>

ternal dockerd[28062]: time="2025-05-05T13:41:51.723769211Z" level=info msg="Ignoring extra error returned>

ternal dockerd[28062]: time="2025-05-05T13:41:59.545900936Z" level=info msg="ignoring event" container=167>

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it nofile=32768:65536

19943Z" level=info msg="Loading containers: done."

26018Z" level=info msg="Docker daemon" commit=71907ca containerd-snapshotter=false  
storage-driver=overlay2>

72264Z" level=info msg="Daemon has completed initialization"

32203Z" level=info msg="API listen on /run/docker.sock"

plication Container Engine.

16294Z" level=error msg="Not continuing with pull after error: errors:\ndenied: requested access to the re>

93810Z" level=info msg="Ignoring extra error returned from registry" error="unauthorized: authentication r>

41690Z" level=error msg="Not continuing with pull after error: errors:\ndenied: requested access to the re>

69211Z" level=info msg="Ignoring extra error returned from registry" error="unauthorized: authentication r>

00936Z" level=info msg="ignoring event"  
container=167f8a46f32728652e75900bee9f842474e85d7896ccc70d396032da>

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containerd-snapshotter=false storage-driver=overlay2 version=25.0.8

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er error: errors:\ndenied: requested access to the resource is denied\nunauthorized:  
authentication requir>

from registry" error="unauthorized: authentication required"

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f8a46f32728652e75900bee9f842474e85d7896ccc70d396032da172fbc26  
module=libcontainerd namespace=moby topic=/t>

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version=25.0.8

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source is denied\nunauthorized: authentication required\n"  
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172fbc26 module=libcontainerd namespace=moby topic=/tasks/delete  
type="\*events.TaskDelete"

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ESCOD

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Active: active (running) since Mon 2025-05-05 13:40:14 UTC; 57min ago

TriggeredBy: ● docker.socket

Docs: <https://docs.docker.com>

Main PID: 28062 (dockerd)

Tasks: 10

Memory: 39.5M

CPU: 814ms

CGroup: /system.slice/docker.service

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time="2025-05-05T13:41:51.7237>

May 05 13:41:59 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:59.5459>

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ESCOD

● docker.service - Docker Application Container Engine

Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: disabled)

Active: active (running) since Mon 2025-05-05 13:40:14 UTC; 57min ago

TriggeredBy: ● docker.socket

Docs: <https://docs.docker.com>

Main PID: 28062 (dockerd)

Tasks: 10

Memory: 39.5M

CPU: 814ms

CGroup: /system.slice/docker.service

└─28062 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --  
default-ulim>

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8151">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8375">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8377">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8802">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal systemd[1]: Started  
docker.service - Docker Ap>

May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.8404">

May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.8414">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.7233">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.7237">

May 05 13:41:59 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:59.5459">

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ESCOD

● docker.service - Docker Application Container Engine

Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: disabled)

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TriggeredBy: ● docker.socket

Docs: <https://docs.docker.com>

Main PID: 28062 (dockerd)

Tasks: 10

Memory: 39.5M

CPU: 814ms

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└─28062 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --  
default-ulim>

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8151">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8375">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8377">



May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.880Z">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal systemd[1]: Started  
docker.service - Docker Ap>

May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.840Z">

May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.841Z">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.723Z">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.723Z">

May 05 13:41:59 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:59.545Z">

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ESCOD

● docker.service - Docker Application Container Engine

Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: disabled)

Active: active (running) since Mon 2025-05-05 13:40:14 UTC; 57min ago

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Main PID: 28062 (dockerd)

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Memory: 39.5M

CPU: 814ms

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time="2025-05-05T13:40:14.8377">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8802">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal systemd[1]: Started  
docker.service - Docker Ap>

May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.8404">

May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.8414">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.7233">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.7237">

May 05 13:41:59 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:59.5459">

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ESCOD

● docker.service - Docker Application Container Engine

Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: disabled)

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time="2025-05-05T13:40:14.8377">

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time="2025-05-05T13:40:14.8802">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal systemd[1]: Started  
docker.service - Docker Ap>

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ESCOD

● docker.service - Docker Application Container Engine

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Docs: <https://docs.docker.com>

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ESCOD

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Docs: <https://docs.docker.com>

Main PID: 28062 (dockerd)

Tasks: 10

Memory: 39.5M

CPU: 814ms

CGroup: /system.slice/docker.service

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ESCOD

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TriggeredBy: ● docker.socket

Docs: <https://docs.docker.com>

Main PID: 28062 (dockerd)

Tasks: 10

Memory: 39.5M

CPU: 814ms

CGroup: /system.slice/docker.service

└─28062 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --  
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May 05 13:41:59 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:59.5459">

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## ESCOD

### ● docker.service - Docker Application Container Engine

Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: disabled)

Active: active (running) since Mon 2025-05-05 13:40:14 UTC; 57min ago

TriggeredBy: ● docker.socket

Docs: <https://docs.docker.com>

Main PID: 28062 (dockerd)

Tasks: 10

Memory: 39.5M

CPU: 814ms

CGroup: /system.slice/docker.service

└─28062 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --  
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ESCOD

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TriggeredBy: ● docker.socket

Docs: <https://docs.docker.com>

Main PID: 28062 (dockerd)

Tasks: 10

Memory: 39.5M

CPU: 814ms

CGroup: /system.slice/docker.service

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ainerd=/run/containerd/containerd.sock --default-ulimit nofile=32768:65536

ternal dockerd[28062]: time="2025-05-05T13:40:14.815119943Z" level=info msg="Loading containers: done."

ternal dockerd[28062]: time="2025-05-05T13:40:14.837526018Z" level=info msg="Docker daemon" commit=71907ca>

ternal dockerd[28062]: time="2025-05-05T13:40:14.837772264Z" level=info msg="Daemon has completed initiali>

ternal dockerd[28062]: time="2025-05-05T13:40:14.880232203Z" level=info msg="API listen on /run/docker.soc>

ternal systemd[1]: Started docker.service - Docker Application Container Engine.

ternal dockerd[28062]: time="2025-05-05T13:41:35.840416294Z" level=error msg="Not continuing with pull aft>

ternal dockerd[28062]: time="2025-05-05T13:41:35.841493810Z" level=info msg="Ignoring extra error returned>

ternal dockerd[28062]: time="2025-05-05T13:41:51.723341690Z" level=error msg="Not continuing with pull aft>

ternal dockerd[28062]: time="2025-05-05T13:41:51.723769211Z" level=info msg="Ignoring extra error returned>

ternal dockerd[28062]: time="2025-05-05T13:41:59.545900936Z" level=info msg="ignoring event" container=167>

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└─28062 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --  
default-ulim>

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8151">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8375">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8377">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8802">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal systemd[1]: Started  
docker.service - Docker Ap>

May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.8404">

May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.8414">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.7233">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.7237">

May 05 13:41:59 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:59.5459">

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ESCOD

● docker.service - Docker Application Container Engine

Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: disabled)

Active: active (running) since Mon 2025-05-05 13:40:14 UTC; 57min ago



TriggeredBy: ● docker.socket

Docs: <https://docs.docker.com>

Main PID: 28062 (dockerd)

Tasks: 10

Memory: 39.5M

CPU: 814ms

CGroup: /system.slice/docker.service

└─28062 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --  
default-ulim>

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8151">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8375">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8377">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.8802">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal systemd[1]: Started  
docker.service - Docker Ap>

May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.8404">

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time="2025-05-05T13:41:59.5459>

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ervice; enabled; preset: disabled)

:40:14 UTC; 57min ago

ainerd=/run/containerd/containerd.sock --default-ulimit nofile=32768:65536

ternal dockerd[28062]: time="2025-05-05T13:40:14.815119943Z" level=info msg="Loading  
containers: done."

ternal dockerd[28062]: time="2025-05-05T13:40:14.837526018Z" level=info msg="Docker  
daemon" commit=71907ca>

ternal dockerd[28062]: time="2025-05-05T13:40:14.837772264Z" level=info  
msg="Daemon has completed initiali>

ternal dockerd[28062]: time="2025-05-05T13:40:14.880232203Z" level=info msg="API  
listen on /run/docker.sock>

ternal systemd[1]: Started docker.service - Docker Application Container Engine.

ternal dockerd[28062]: time="2025-05-05T13:41:35.840416294Z" level=error msg="Not  
continuing with pull aft>

ternal dockerd[28062]: time="2025-05-05T13:41:35.841493810Z" level=info msg="Ignoring  
extra error returned>

ternal dockerd[28062]: time="2025-05-05T13:41:51.723341690Z" level=error msg="Not  
continuing with pull aft>

ternal dockerd[28062]: time="2025-05-05T13:41:51.723769211Z" level=info msg="Ignoring  
extra error returned>

ternal dockerd[28062]: time="2025-05-05T13:41:59.545900936Z" level=info msg="ignoring  
event" container=167>

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ESCOD

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CPU: 814ms

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docker.service - Docker Ap>

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time="2025-05-05T13:41:35.8404">

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time="2025-05-05T13:41:35.8414">

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time="2025-05-05T13:41:51.7233">

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time="2025-05-05T13:41:51.7237">

May 05 13:41:59 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:59.5459">

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May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:40:14.880Z">

May 05 13:40:14 ip-172-31-11-127.us-east-2.compute.internal systemd[1]: Started  
docker.service - Docker Ap>

May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.840Z">

May 05 13:41:35 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:35.841Z">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.723Z">

May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:51.723Z">

May 05 13:41:59 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:59.545Z">

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ESCOD

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time="2025-05-05T13:41:35.8404">

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May 05 13:41:51 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
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May 05 13:41:59 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:59.5459">

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ESCOD

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ESCOD

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TriggeredBy: ● docker.socket

Docs: <https://docs.docker.com>

Main PID: 28062 (dockerd)

Tasks: 10

Memory: 39.5M

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CGroup: /system.slice/docker.service

└─28062 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --  
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May 05 13:41:59 ip-172-31-11-127.us-east-2.compute.internal dockerd[28062]:  
time="2025-05-05T13:41:59.5459">

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ESCOD

● docker.service - Docker Application Container Engine

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Main PID: 28062 (dockerd)

Tasks: 10

Memory: 39.5M

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docker.service - Docker Ap>

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## ESCOD

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```
[ec2-user@ip-172-31-11-127 ~]$ sudo make build
```

```
make: *** No rule to make target 'build'. Stop.
```

```
[ec2-user@ip-172-31-11-127 ~]$ cd /home/ec2-user
```

```
[ec2-user@ip-172-31-11-127 ~]$ make build
```

```
make: *** No rule to make target 'build'. Stop.
```

```
[ec2-user@ip-172-31-11-127 ~]$ 1s -l Makefile
```

```
-bash: 1s: command not found
```

```
[ec2-user@ip-172-31-11-127 ~]$ ls -l Makefile
```

```
ls: cannot access 'Makefile': No such file or directory
```

```
[ec2-user@ip-172-31-11-127 ~]$ pwd
```

```
/home/ec2-user
```

```
[ec2-user@ip-172-31-11-127 ~]$ ls
```

```
Dockerfile.txt Makefile.txt app.py docker-compose.yml my-key.pem my-keyPutty.ppk
requirements.txt
```

```
[ec2-user@ip-172-31-11-127 ~]$ mv Makefile.txt Makefile
```

```
[ec2-user@ip-172-31-11-127 ~]$ ls
```

```
Dockerfile.txt Makefile app.py docker-compose.yml my-key.pem my-keyPutty.ppk
requirements.txt
```

```
[ec2-user@ip-172-31-11-127 ~]$ make build
```

```
docker compose build
```

```
docker: 'compose' is not a docker command.
```

```
See 'docker --help'
```

```
make: *** [Makefile:27: build] Error 1
```

```
[ec2-user@ip-172-31-11-127 ~]$ docker-compose --version
```

```
-bash: docker-compose: command not found
```

```
[ec2-user@ip-172-31-11-127 ~]$ sudo curl -L
"https://github.com/docker/compose/releases/latest/download/docker-compose-
$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
```

```
% Total % Received % Xferd Average Speed Time Time Time Current
 Dload Upload Total Spent Left Speed

 0 0 0 0 0 0 0 0 0 --:--:-- --:--:-- --:--:-- 0
 0 0 0 0 0 0 0 0 0 --:--:-- --:--:-- --:--:-- 0
100 70.2M 100 70.2M 0 0 54.7M 0 0:00:01 0:00:01 --:--:-- 68.7M
```

```
[ec2-user@ip-172-31-11-127 ~]$ sudo chmod +x /usr/local/bin/docker-compose
```

```
[ec2-user@ip-172-31-11-127 ~]$ docker-compose --version
```

```
Docker Compose version v2.35.1
```

```
[ec2-user@ip-172-31-11-127 ~]$ make build
```

```
docker compose build
```

```
docker: 'compose' is not a docker command.
```

```
See 'docker --help'
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```
make: *** [Makefile:27: build] Error 1
```

```
[ec2-user@ip-172-31-11-127 ~]$ docker-compose --version
```

```
Docker Compose version v2.35.1
```

```
[ec2-user@ip-172-31-11-127 ~]$ make build
```

```
docker-compose build
```

```
Compose can now delegate builds to bake for better performance.
```

```
To do so, set COMPOSE_BAKE=true.
```

```
[+] Building 0.1s (1/1) FINISHED docker:default
```

```
=> [web internal] load build definition from Dockerfile 0.0s
```

```
=> => transferring dockerfile: 2B 0.0s
```

```
failed to solve: failed to read dockerfile: open Dockerfile: no such file or directory
```

```
make: *** [Makefile:27: build] Error 1
```

```
[ec2-user@ip-172-31-11-127 ~]$ make build
```

```
docker-compose build
```

Compose can now delegate builds to bake for better performance.

To do so, set COMPOSE\_BAKE=true.

```
[+] Building 7.4s (12/12) FINISHED docker:default
=> [web internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 322B 0.0s
=> [web internal] load metadata for docker.io/library/python:3.9-alpine 0.4s
=> [web internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [web 1/6] FROM docker.io/library/python:3.9-alpine@sha256:c549d512f8a56f7dbf15032c0b21799f022118 1.7s
=> => resolve docker.io/library/python:3.9-alpine@sha256:c549d512f8a56f7dbf15032c0b21799f022118d4b7 0.0s
=> =>
sha256:c549d512f8a56f7dbf15032c0b21799f022118d4b72542b8d85e2eae350cfc7
10.29kB / 10.29kB 0.0s
=> =>
sha256:920c6d2e0859e15c81b84b28964b7a47771d593f1bbcc0d993fbf39c6f8b050f
1.73kB / 1.73kB 0.0s
=> => sha256:3f2234415a3570fc933cd711b6baf7b905d0c6367cf747af84dbf9fbee642b10
5.08kB / 5.08kB 0.0s
=> =>
sha256:f18232174bc91741fdf3da96d85011092101a032a93a388b79e99e69c2d5c870
3.64MB / 3.64MB 0.1s
=> =>
sha256:31050cb47a0204aa139821ee500ed6b13dc7142d89b12154f9a2d2efba8a6ab7
460.18kB / 460.18kB 0.1s
```

=> =>

sha256:374b62c84664db7f5059aa54735d1e7921d3350b69515a1c9651201795807c3d  
14.87MB / 14.87MB 0.3s

=> => extracting

sha256:f18232174bc91741fdf3da96d85011092101a032a93a388b79e99e69c2d5c870  
0.3s

=> =>

sha256:4facdbdcc8a37a46035340540047c8eed35e9b8dfd033632e0438d03f82d021a  
250B / 250B 0.2s

=> => extracting

sha256:31050cb47a0204aa139821ee500ed6b13dc7142d89b12154f9a2d2efba8a6ab7  
0.1s

=> => extracting

sha256:374b62c84664db7f5059aa54735d1e7921d3350b69515a1c9651201795807c3d  
0.9s

=> => extracting

sha256:4facdbdcc8a37a46035340540047c8eed35e9b8dfd033632e0438d03f82d021a  
0.0s

=> [web internal] load build context 0.0s

=> => transferring context: 10.39kB 0.0s

=> [web 2/6] RUN addgroup -S appgroup && adduser -S appuser -G appgroup  
0.4s

=> [web 3/6] WORKDIR /app 0.1s

=> [web 4/6] COPY requirements.txt . 0.1s

=> [web 5/6] RUN pip install --no-cache-dir -r requirements.txt 4.3s

=> [web 6/6] COPY . . 0.1s

=> [web] exporting to image 0.2s

=> => exporting layers 0.2s

=> => writing image

sha256:71b28c44b313980a8c19c8a11f95ad950d43d5244a4c9db39b4b26a32fc0ed14  
0.0s



|                                            |      |
|--------------------------------------------|------|
| => => naming to docker.io/library/mywebapp | 0.0s |
|--------------------------------------------|------|

|                                                 |      |
|-------------------------------------------------|------|
| => [web] resolving provenance for metadata file | 0.0s |
|-------------------------------------------------|------|

[+] Building 1/1

|             |      |
|-------------|------|
| ✓ web Built | 0.0s |
|-------------|------|

[ec2-user@ip-172-31-11-127 ~]\$ make start

docker-compose up -d

[+] Running 15/15

|             |      |
|-------------|------|
| ✓ db Pulled | 9.6s |
|-------------|------|

|                              |      |
|------------------------------|------|
| ✓ 254e724d7786 Pull complete | 3.3s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ 1c533f8f180e Pull complete | 3.3s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ 8695507981b7 Pull complete | 3.6s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ a3d79e08565f Pull complete | 3.7s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ dd3aedfba237 Pull complete | 4.1s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ 6d9dbff87d6b Pull complete | 4.2s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ c1d9ad5846d6 Pull complete | 4.2s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ 209bf09e8dd9 Pull complete | 4.3s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ a11780c1be36 Pull complete | 9.0s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ 8186a3b040ea Pull complete | 9.0s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ 8a70fc0ac107 Pull complete | 9.0s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ 0d5787e1c5b4 Pull complete | 9.1s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ 8b362903e216 Pull complete | 9.1s |
|------------------------------|------|

|                              |      |
|------------------------------|------|
| ✓ 7b8ee3b6c928 Pull complete | 9.1s |
|------------------------------|------|

[+] Running 4/4

|                                    |      |
|------------------------------------|------|
| ✓ Network ec2-user_backend Created | 0.1s |
|------------------------------------|------|

|                                     |      |
|-------------------------------------|------|
| ✓ Network ec2-user_frontend Created | 0.1s |
|-------------------------------------|------|

✓ Container ec2-user-db-1 Started 0.7s

✓ Container ec2-user-web-1 Started 1.0s

[ec2-user@ip-172-31-11-127 ~]\$ docker ps

| CONTAINER ID   | IMAGE       | COMMAND                  | CREATED        | STATUS        | PORTS                                       |
|----------------|-------------|--------------------------|----------------|---------------|---------------------------------------------|
| NAMES          |             |                          |                |               |                                             |
| e50b71d78c14   | mywebapp    | "python app.py"          | 15 minutes ago | Up 15 minutes | 0.0.0.0:15000->5000/tcp, :::15000->5000/tcp |
| ec2-user-web-1 |             |                          |                |               |                                             |
| 587509e43f1a   | postgres:13 | "docker-entrypoint.s..." | 15 minutes ago | Up 15 minutes | 5432/tcp                                    |
| ec2-user-db-1  |             |                          |                |               |                                             |

[ec2-user@ip-172-31-11-127 ~]\$ docker-compose down

[+] Running 4/4

✓ Container ec2-user-web-1 Removed 10.3s

✓ Container ec2-user-db-1 Removed 0.2s

✓ Network ec2-user\_frontend Removed 0.3s

✓ Network ec2-user\_backend Removed 0.6s

[ec2-user@ip-172-31-11-127 ~]\$ docker-compose up -d

[+] Running 4/4

✓ Network ec2-user\_frontend Created 0.1s

✓ Network ec2-user\_backend Created 0.1s

✓ Container ec2-user-db-1 Started 0.5s

✓ Container ec2-user-web-1 Started 0.9s

[ec2-user@ip-172-31-11-127 ~]\$ make check

Running code analysis with Bandit...

docker run --rm -v /home/ec2-user:/app python:3.9-alpine sh -c "pip install bandit && bandit -r /app"

Unable to find image 'python:3.9-alpine' locally

3.9-alpine: Pulling from library/python

f18232174bc9: Already exists

31050cb47a02: Already exists

374b62c84664: Already exists

4facdbdcc8a3: Already exists

Digest:

sha256:c549d512f8a56f7dbf15032c0b21799f022118d4b72542b8d85e2eae350cfc7

Status: Downloaded newer image for python:3.9-alpine

Collecting bandit

Downloading bandit-1.8.3-py3-none-any.whl (129 kB)

---

— 129.1/129.1 kB 4.8 MB/s eta 0:00:00

Collecting rich

Downloading rich-14.0.0-py3-none-any.whl (243 kB)

---

— 243.2/243.2 kB 15.9 MB/s eta 0:00:00

Collecting PyYAML<=5.3.1

Downloading PyYAML-6.0.2-cp39-cp39-muslinux\_1\_1\_x86\_64.whl (723 kB)

---

— 723.6/723.6 kB 41.6 MB/s eta 0:00:00

Collecting stevedore<=1.20.0

Downloading stevedore-5.4.1-py3-none-any.whl (49 kB)

---

— 49.5/49.5 kB 9.4 MB/s eta 0:00:00

Collecting pbr<=2.0.0

Downloading pbr-6.1.1-py2.py3-none-any.whl (108 kB)

---

— 109.0/109.0 kB 20.8 MB/s eta 0:00:00

Collecting pygments<3.0.0,>=2.13.0

Downloading pygments-2.19.1-py3-none-any.whl (1.2 MB)

---

—— 1.2/1.2 MB 59.0 MB/s eta 0:00:00

Collecting markdown-it-py>=2.2.0

Downloading markdown\_it\_py-3.0.0-py3-none-any.whl (87 kB)

---

—— 87.5/87.5 kB 17.0 MB/s eta 0:00:00

Collecting typing-extensions<5.0,>=4.0.0

Downloading typing\_extensions-4.13.2-py3-none-any.whl (45 kB)

---

—— 45.8/45.8 kB 6.7 MB/s eta 0:00:00

Collecting mdurl~=0.1

Downloading mdurl-0.1.2-py3-none-any.whl (10.0 kB)

Requirement already satisfied: setuptools in /usr/local/lib/python3.9/site-packages (from pbr>=2.0.0->stevedore>=1.20.0->bandit) (58.1.0)

Installing collected packages: typing-extensions, PyYAML, pygments, pbr, mdurl, stevedore, markdown-it-py, rich, bandit

Successfully installed PyYAML-6.0.2 bandit-1.8.3 markdown-it-py-3.0.0 mdurl-0.1.2 pbr-6.1.1 pygments-2.19.1 rich-14.0.0 stevedore-5.4.1 typing-extensions-4.13.2

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>

[notice] A new release of pip is available: 23.0.1 -> 25.1.1

[notice] To update, run: pip install --upgrade pip

[main] INFO profile include tests: None

[main] INFO profile exclude tests: None

[main] INFO cli include tests: None

[main] INFO cli exclude tests: None

[main] INFO running on Python 3.9.22

Run started:2025-05-06 00:19:57.901859

#### Test results:

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info:

[https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist\\_imports.html#b404-import-subprocess](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess)

Location: /app/app.py:3:0

2 import os

3 import subprocess

4

-----

>> Issue: [B105:hardcoded\_password\_string] Possible hardcoded password: 'supersecretpassword'

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info:

[https://bandit.readthedocs.io/en/1.8.3/plugins/b105\\_hardcoded\\_password\\_string.html](https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html)

Location: /app/app.py:8:11

```
7 # Hard-coded password
8 PASSWORD = "supersecretpassword"
9
```

-----

>> Issue: [B602:subprocess\_popen\_with\_shell\_equals\_true] subprocess call with shell=True identified, security issue.

Severity: High Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info:

[https://bandit.readthedocs.io/en/1.8.3/plugins/b602\\_subprocess\\_popen\\_with\\_shell\\_equals\\_true.html](https://bandit.readthedocs.io/en/1.8.3/plugins/b602_subprocess_popen_with_shell_equals_true.html)

Location: /app/app.py:22:13

```
21 # Unsafe command execution
22 result = subprocess.check_output(f"ping -c 1 {ip}", shell=True)
23 return result
```

-----

>> Issue: [B307:blacklist] Use of possibly insecure function - consider using safer ast.literal\_eval.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist\\_calls.html#b307-eval](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b307-eval)

Location: /app/app.py:30:13

```
29 # Dangerous use of eval
```

```
30 result = eval(expression)
31 return str(result)
```

-----

>> Issue: [B104:hardcoded\_bind\_all\_interfaces] Possible binding to all interfaces.

Severity: Medium Confidence: Medium

CWE: CWE-605 (<https://cwe.mitre.org/data/definitions/605.html>)

More Info:

[https://bandit.readthedocs.io/en/1.8.3/plugins/b104\\_hardcoded\\_bind\\_all\\_interfaces.html](https://bandit.readthedocs.io/en/1.8.3/plugins/b104_hardcoded_bind_all_interfaces.html)

Location: /app/app.py:34:17

```
33 if __name__ == '__main__':
34 app.run(host='0.0.0.0', port=5000)
35
```

-----

Code scanned:

Total lines of code: 23

Total lines skipped (#nosec): 0

Total potential issues skipped due to specifically being disabled (e.g., #nosec BXXX): 0

Run metrics:

Total issues (by severity):

Undefined: 0

Low: 2

Medium: 2

High: 1

Total issues (by confidence):

Undefined: 0

Low: 0

Medium: 2

High: 3

Files skipped (0):

make: \*\*\* [Makefile:4: check] Error 1

[ec2-user@ip-172-31-11-127 ~]\$ make scan

docker scout recommendations mywebapp:latest

docker: 'scout' is not a docker command.

See 'docker --help'

make: \*\*\* [Makefile:23: scan] Error 1

[ec2-user@ip-172-31-11-127 ~]\$ make host-security

Running Docker Bench for Security...

docker run --rm -v /var/run/docker.sock:/var/run/docker.sock docker/docker-bench-security

Unable to find image 'docker/docker-bench-security:latest' locally

latest: Pulling from docker/docker-bench-security

cd784148e348: Pull complete

48fe0d48816d: Pull complete

164e5e0f48c5: Pull complete

378ed37ea5ff: Pull complete

Digest:

sha256:ddbdf4f86af4405da4a8a7b7cc62bb63bfeb75e85bf22d2ece70c204d7cfabb8

Status: Downloaded newer image for docker/docker-bench-security:latest

# -----



# Docker Bench for Security v1.3.4

#

# Docker, Inc. (c) 2015-

#

# Checks for dozens of common best-practices around deploying Docker containers in production.

# Inspired by the CIS Docker Community Edition Benchmark v1.1.0.

# -----

Initializing Tue May 6 00:20:19 UTC 2025

[INFO] 1 - Host Configuration

[WARN] 1.1 - Ensure a separate partition for containers has been created

[NOTE] 1.2 - Ensure the container host has been Hardened

[INFO] 1.3 - Ensure Docker is up to date

[INFO] \* Using 25.0.8, verify is it up to date as deemed necessary

[INFO] \* Your operating system vendor may provide support and security maintenance for Docker

[INFO] 1.4 - Ensure only trusted users are allowed to control Docker daemon

[INFO] \* docker:x:101

[WARN] 1.5 - Ensure auditing is configured for the Docker daemon

[INFO] 1.6 - Ensure auditing is configured for Docker files and directories - /var/lib/docker

[INFO] \* Directory not found

[INFO] 1.7 - Ensure auditing is configured for Docker files and directories - /etc/docker

[INFO] \* Directory not found

[INFO] 1.8 - Ensure auditing is configured for Docker files and directories - docker.service

[INFO] \* File not found

[INFO] 1.9 - Ensure auditing is configured for Docker files and directories - docker.socket

[INFO] \* File not found

[INFO] 1.10 - Ensure auditing is configured for Docker files and directories -  
/etc/default/docker

[INFO] \* File not found

[INFO] 1.11 - Ensure auditing is configured for Docker files and directories -  
/etc/docker/daemon.json

[INFO] \* File not found

[INFO] 1.12 - Ensure auditing is configured for Docker files and directories -  
/usr/bin/docker-containerd

[INFO] \* File not found

[INFO] 1.13 - Ensure auditing is configured for Docker files and directories -  
/usr/bin/docker-runc

[INFO] \* File not found

[INFO] 2 - Docker daemon configuration

[WARN] 2.1 - Ensure network traffic is restricted between containers on the default bridge

[PASS] 2.2 - Ensure the logging level is set to 'info'

[PASS] 2.3 - Ensure Docker is allowed to make changes to iptables

[PASS] 2.4 - Ensure insecure registries are not used

[PASS] 2.5 - Ensure aufs storage driver is not used

[INFO] 2.6 - Ensure TLS authentication for Docker daemon is configured

[INFO] \* Docker daemon not listening on TCP

[INFO] 2.7 - Ensure the default ulimit is configured appropriately

[INFO] \* Default ulimit doesn't appear to be set

[WARN] 2.8 - Enable user namespace support

[PASS] 2.9 - Ensure the default cgroup usage has been confirmed

[PASS] 2.10 - Ensure base device size is not changed until needed

[WARN] 2.11 - Ensure that authorization for Docker client commands is enabled

[WARN] 2.12 - Ensure centralized and remote logging is configured

[INFO] 2.13 - Ensure operations on legacy registry (v1) are Disabled (Deprecated)

[WARN] 2.14 - Ensure live restore is Enabled

[WARN] 2.15 - Ensure Userland Proxy is Disabled

[INFO] 2.16 - Ensure daemon-wide custom seccomp profile is applied, if needed

[PASS] 2.17 - Ensure experimental features are avoided in production

[WARN] 2.18 - Ensure containers are restricted from acquiring new privileges

[INFO] 3 - Docker daemon configuration files

[INFO] 3.1 - Ensure that docker.service file ownership is set to root:root

[INFO] \* File not found

[INFO] 3.2 - Ensure that docker.service file permissions are set to 644 or more restrictive

[INFO] \* File not found

[INFO] 3.3 - Ensure that docker.socket file ownership is set to root:root

[INFO] \* File not found

[INFO] 3.4 - Ensure that docker.socket file permissions are set to 644 or more restrictive

[INFO] \* File not found

[INFO] 3.5 - Ensure that /etc/docker directory ownership is set to root:root

[INFO] \* Directory not found

[INFO] 3.6 - Ensure that /etc/docker directory permissions are set to 755 or more restrictive

[INFO] \* Directory not found

[INFO] 3.7 - Ensure that registry certificate file ownership is set to root:root

[INFO] \* Directory not found

[INFO] 3.8 - Ensure that registry certificate file permissions are set to 444 or more restrictive

[INFO] \* Directory not found

[INFO] 3.9 - Ensure that TLS CA certificate file ownership is set to root:root

[INFO] \* No TLS CA certificate found

[INFO] 3.10 - Ensure that TLS CA certificate file permissions are set to 444 or more restrictive

[INFO] \* No TLS CA certificate found

[INFO] 3.11 - Ensure that Docker server certificate file ownership is set to root:root

[INFO] \* No TLS Server certificate found

[INFO] 3.12 - Ensure that Docker server certificate file permissions are set to 444 or more restrictive

[INFO] \* No TLS Server certificate found

[INFO] 3.13 - Ensure that Docker server certificate key file ownership is set to root:root

[INFO] \* No TLS Key found

[INFO] 3.14 - Ensure that Docker server certificate key file permissions are set to 400

[INFO] \* No TLS Key found

[WARN] 3.15 - Ensure that Docker socket file ownership is set to root:docker

[WARN] \* Wrong ownership for /var/run/docker.sock

[PASS] 3.16 - Ensure that Docker socket file permissions are set to 660 or more restrictive

[INFO] 3.17 - Ensure that daemon.json file ownership is set to root:root

[INFO] \* File not found

[INFO] 3.18 - Ensure that daemon.json file permissions are set to 644 or more restrictive

[INFO] \* File not found

[INFO] 3.19 - Ensure that /etc/default/docker file ownership is set to root:root

[INFO] \* File not found

[INFO] 3.20 - Ensure that /etc/default/docker file permissions are set to 644 or more restrictive

[INFO] \* File not found

[INFO] 4 - Container Images and Build File

[WARN] 4.1 - Ensure a user for the container has been created

[WARN] \* Running as root: ec2-user-db-1

[NOTE] 4.2 - Ensure that containers use trusted base images

[NOTE] 4.3 - Ensure unnecessary packages are not installed in the container

[NOTE] 4.4 - Ensure images are scanned and rebuilt to include security patches

[WARN] 4.5 - Ensure Content trust for Docker is Enabled

[WARN] 4.6 - Ensure HEALTHCHECK instructions have been added to the container image

[WARN] \* No Healthcheck found: [mywebapp:latest]

[WARN] \* No Healthcheck found: [python:3.9-alpine]

[WARN] \* No Healthcheck found: [postgres:13]

[WARN] \* No Healthcheck found: [hello-world:latest]

[INFO] 4.7 - Ensure update instructions are not use alone in the Dockerfile

[INFO] \* Update instruction found: [postgres:13]

[NOTE] 4.8 - Ensure setuid and setgid permissions are removed in the images

[INFO] 4.9 - Ensure COPY is used instead of ADD in Dockerfile

[INFO] \* ADD in image history: [mywebapp:latest]

[INFO] \* ADD in image history: [python:3.9-alpine]

[INFO] \* ADD in image history: [docker/docker-bench-security:latest]

[NOTE] 4.10 - Ensure secrets are not stored in Dockerfiles

[NOTE] 4.11 - Ensure verified packages are only Installed

[INFO] 5 - Container Runtime

[WARN] 5.1 - Ensure AppArmor Profile is Enabled

[WARN] \* No AppArmorProfile Found: ec2-user-web-1

[WARN] \* No AppArmorProfile Found: ec2-user-db-1

[WARN] 5.2 - Ensure SELinux security options are set, if applicable

[WARN] \* No SecurityOptions Found: ec2-user-web-1

[WARN] \* No SecurityOptions Found: ec2-user-db-1

[PASS] 5.3 - Ensure Linux Kernel Capabilities are restricted within containers

[PASS] 5.4 - Ensure privileged containers are not used

[PASS] 5.5 - Ensure sensitive host system directories are not mounted on containers

[PASS] 5.6 - Ensure ssh is not run within containers

[PASS] 5.7 - Ensure privileged ports are not mapped within containers

[NOTE] 5.8 - Ensure only needed ports are open on the container

[PASS] 5.9 - Ensure the host's network namespace is not shared

[WARN] 5.10 - Ensure memory usage for container is limited

[WARN] \* Container running without memory restrictions: ec2-user-web-1

[WARN] \* Container running without memory restrictions: ec2-user-db-1

[WARN] 5.11 - Ensure CPU priority is set appropriately on the container

[WARN] \* Container running without CPU restrictions: ec2-user-web-1

[WARN] \* Container running without CPU restrictions: ec2-user-db-1

[WARN] 5.12 - Ensure the container's root filesystem is mounted as read only

[WARN] \* Container running with root FS mounted R/W: ec2-user-web-1

[WARN] \* Container running with root FS mounted R/W: ec2-user-db-1

[WARN] 5.13 - Ensure incoming container traffic is binded to a specific host interface

[WARN] \* Port being bound to wildcard IP: 0.0.0.0 in ec2-user-web-1

[WARN] 5.14 - Ensure 'on-failure' container restart policy is set to '5'

[WARN] \* MaximumRetryCount is not set to 5: ec2-user-web-1

[WARN] \* MaximumRetryCount is not set to 5: ec2-user-db-1

[PASS] 5.15 - Ensure the host's process namespace is not shared

[PASS] 5.16 - Ensure the host's IPC namespace is not shared

[PASS] 5.17 - Ensure host devices are not directly exposed to containers

[PASS] 5.18 - Ensure the default ulimit is overwritten at runtime, only if needed

[PASS] 5.19 - Ensure mount propagation mode is not set to shared

[PASS] 5.20 - Ensure the host's UTS namespace is not shared

[PASS] 5.21 - Ensure the default seccomp profile is not Disabled

[NOTE] 5.22 - Ensure docker exec commands are not used with privileged option

[NOTE] 5.23 - Ensure docker exec commands are not used with user option

[PASS] 5.24 - Ensure cgroup usage is confirmed

[WARN] 5.25 - Ensure the container is restricted from acquiring additional privileges

[WARN] \* Privileges not restricted: ec2-user-web-1

[WARN] \* Privileges not restricted: ec2-user-db-1

[WARN] 5.26 - Ensure container health is checked at runtime

[WARN] \* Health check not set: ec2-user-web-1

[WARN] \* Health check not set: ec2-user-db-1

[INFO] 5.27 - Ensure docker commands always get the latest version of the image

[WARN] 5.28 - Ensure PIDs cgroup limit is used

[WARN] \* PIDs limit not set: ec2-user-web-1

[WARN] \* PIDs limit not set: ec2-user-db-1

[INFO] 5.29 - Ensure Docker's default bridge docker0 is not used

[INFO] \* Container in docker0 network: vigorous\_kirch

[PASS] 5.30 - Ensure the host's user namespaces is not shared

[PASS] 5.31 - Ensure the Docker socket is not mounted inside any containers

[INFO] 6 - Docker Security Operations

[INFO] 6.1 - Avoid image sprawl

[INFO] \* There are currently: 5 images

[INFO] 6.2 - Avoid container sprawl

[INFO] \* There are currently a total of 4 containers, with 3 of them currently running

[INFO] 7 - Docker Swarm Configuration

[PASS] 7.1 - Ensure swarm mode is not Enabled, if not needed

[PASS] 7.2 - Ensure the minimum number of manager nodes have been created in a swarm  
(Swarm mode not enabled)

[PASS] 7.3 - Ensure swarm services are binded to a specific host interface (Swarm mode  
not enabled)

[PASS] 7.4 - Ensure data exchanged between containers are encrypted on different nodes  
on the overlay network

[PASS] 7.5 - Ensure Docker's secret management commands are used for managing  
secrets in a Swarm cluster (Swarm mode not enabled)

[PASS] 7.6 - Ensure swarm manager is run in auto-lock mode (Swarm mode not enabled)

[PASS] 7.7 - Ensure swarm manager auto-lock key is rotated periodically (Swarm mode not  
enabled)

[PASS] 7.8 - Ensure node certificates are rotated as appropriate (Swarm mode not enabled)

[PASS] 7.9 - Ensure CA certificates are rotated as appropriate (Swarm mode not enabled)



[PASS] 7.10 - Ensure management plane traffic has been separated from data plane traffic  
(Swarm mode not enabled)

[INFO] Checks: 105

[INFO] Score: 10

[ec2-user@ip-172-31-11-127 ~]\$ make scan

docker scout recommendations mywebapp:latest

docker: 'scout' is not a docker command.

See 'docker --help'

make: \*\*\* [Makefile:23: scan] Error 1

[ec2-user@ip-172-31-11-127 ~]\$ docker --version

Docker version 25.0.8, build 0bab007

[ec2-user@ip-172-31-11-127 ~]\$ docker plugin install docker/scout-cli:latest --alias scout -  
-grant-all-permissions

Error response from daemon: did not find plugin config for specified reference  
docker.io/docker/scout-cli:latest

[ec2-user@ip-172-31-11-127 ~]\$ make scan

docker scout recommendations mywebapp:latest

docker: 'scout' is not a docker command.

See 'docker --help'

make: \*\*\* [Makefile:23: scan] Error 1

[ec2-user@ip-172-31-11-127 ~]\$ sudo rpm -ivh

[https://github.com/aquasecurity/trivy/releases/latest/download/trivy\\_0.50.2\\_Linux-  
64bit.rpm](https://github.com/aquasecurity/trivy/releases/latest/download/trivy_0.50.2_Linux-64bit.rpm)

Retrieving

[https://github.com/aquasecurity/trivy/releases/latest/download/trivy\\_0.50.2\\_Linux-  
64bit.rpm](https://github.com/aquasecurity/trivy/releases/latest/download/trivy_0.50.2_Linux-64bit.rpm)

curl: (22) The requested URL returned error: 404

error: skipping

[https://github.com/aquasecurity/trivy/releases/latest/download/trivy\\_0.50.2\\_Linux-64bit.rpm](https://github.com/aquasecurity/trivy/releases/latest/download/trivy_0.50.2_Linux-64bit.rpm) - transfer failed

```
[ec2-user@ip-172-31-11-127 ~]$ curl -sfL
```

```
https://raw.githubusercontent.com/aquasecurity/trivy/main/contrib/install.sh | sudo sh -s -
- -b /usr/local/bin
```

aquasecurity/trivy info checking GitHub for latest tag

aquasecurity/trivy info found version: 0.62.0 for v0.62.0/Linux/64bit

aquasecurity/trivy info installed /usr/local/bin/trivy

```
[ec2-user@ip-172-31-11-127 ~]$ trivy image mywebapp:latest
```

2025-05-06T00:24:56Z INFO [vulndb] Need to update DB

2025-05-06T00:24:56Z INFO [vulndb] Downloading vulnerability DB...

2025-05-06T00:24:56Z INFO [vulndb] Downloading artifact...

repo="mirror.gcr.io/aquasec/trivy-db:2"

63.09 MiB / 63.09 MiB [-----] 100.00% 13.07 MiB  
p/s 5.0s

2025-05-06T00:25:02Z INFO [vulndb] Artifact successfully downloaded

repo="mirror.gcr.io/aquasec/trivy-db:2"

2025-05-06T00:25:02Z INFO [vuln] Vulnerability scanning is enabled

2025-05-06T00:25:02Z INFO [secret] Secret scanning is enabled

2025-05-06T00:25:02Z INFO [secret] If your scanning is slow, please try '--scanners vuln'  
to disable secret scanning

2025-05-06T00:25:02Z INFO [secret] Please see also

<https://trivy.dev/v0.62/docs/scanner/secret#recommendation> for faster secret detection

2025-05-06T00:25:07Z INFO [python] Licenses acquired from one or more METADATA  
files may be subject to additional terms. Use `--debug` flag to see all affected packages.

2025-05-06T00:25:07Z INFO Detected OS family="alpine" version="3.21.3"

2025-05-06T00:25:07Z INFO [alpine] Detecting vulnerabilities... os\_version="3.21"  
repository="3.21" pkg\_num=37

2025-05-06T00:25:07Z INFO Number of language-specific files num=1

2025-05-06T00:25:07Z INFO [python-pkg] Detecting vulnerabilities...

2025-05-06T00:25:07Z INFO Table result includes only package filenames. Use '--format json' option to get the full path to the package file.

Report Summary

| Target                                                                    | Type       | Vulnerabilities | Secrets |
|---------------------------------------------------------------------------|------------|-----------------|---------|
| mywebapp:latest (alpine 3.21.3)                                           | alpine     | 1               | -       |
| usr/local/lib/python3.9/site-packages/MarkupSafe-3.0.2.dist-info/METADATA | python-pkg | 0               | -       |
| usr/local/lib/python3.9/site-packages/blinker-1.9.0.dist-info/METADATA    | python-pkg | 0               | -       |
| usr/local/lib/python3.9/site-packages/click-8.1.8.dist-info/METADATA      | python-pkg | 0               | -       |

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|  |                                                                      |  |            |  |
|--|----------------------------------------------------------------------|--|------------|--|
|  |                                                                      |  |            |  |
|  | usr/local/lib/python3.9/site-packages/flask-3.0.3.dist-info/METADATA |  | python-pkg |  |
|  | 0                                                                    |  | -          |  |

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|            |                                                                                  |   |  |   |
|------------|----------------------------------------------------------------------------------|---|--|---|
|            |                                                                                  |   |  |   |
|            | usr/local/lib/python3.9/site-packages/importlib_metadata-8.7.0.dist-info/METADA- |   |  |   |
| python-pkg |                                                                                  | 0 |  | - |
|            | TA                                                                               |   |  |   |

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|            |                                                                             |   |  |   |
|------------|-----------------------------------------------------------------------------|---|--|---|
|            |                                                                             |   |  |   |
|            | usr/local/lib/python3.9/site-packages/itsdangerous-2.2.0.dist-info/METADATA |   |  |   |
| python-pkg |                                                                             | 0 |  | - |

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|  |                                                                       |  |            |  |
|--|-----------------------------------------------------------------------|--|------------|--|
|  |                                                                       |  |            |  |
|  | usr/local/lib/python3.9/site-packages/jinja2-3.1.6.dist-info/METADATA |  | python-pkg |  |
|  | 0                                                                     |  | -          |  |

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|  |                                                                     |  |            |  |
|--|---------------------------------------------------------------------|--|------------|--|
|  |                                                                     |  |            |  |
|  | usr/local/lib/python3.9/site-packages/pip-23.0.1.dist-info/METADATA |  | python-pkg |  |
|  | 1                                                                   |  | -          |  |

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|            |                                                                            |   |  |   |
|------------|----------------------------------------------------------------------------|---|--|---|
|            |                                                                            |   |  |   |
|            | usr/local/lib/python3.9/site-packages/setuptools-58.1.0.dist-info/METADATA |   |  |   |
| python-pkg |                                                                            | 2 |  | - |

|                                      |                                                                         |   |         |       |
|--------------------------------------|-------------------------------------------------------------------------|---|---------|-------|
| └                                    |                                                                         |   |         |       |
| <hr/>                                |                                                                         |   |         |       |
| └─┬──────────┬──────────┬──────────┬ |                                                                         |   |         |       |
|                                      | usr/local/lib/python3.9/site-packages/werkzeug-3.1.3.dist-info/METADATA |   | python- |       |
| pkg                                  | 0                                                                       | - |         |       |
| └                                    |                                                                         |   |         |       |
| <hr/>                                |                                                                         |   |         |       |
| └─┬──────────┬──────────┬──────────┬ |                                                                         |   |         |       |
|                                      | usr/local/lib/python3.9/site-packages/wheel-0.45.1.dist-info/METADATA   |   | python- |       |
| pkg                                  | 0                                                                       | - |         |       |
| └                                    |                                                                         |   |         |       |
| <hr/>                                |                                                                         |   |         |       |
| └─┬──────────┬──────────┬──────────┬ |                                                                         |   |         |       |
|                                      | usr/local/lib/python3.9/site-packages/zipp-3.21.0.dist-info/METADATA    |   | python- |       |
| pkg                                  | 0                                                                       | - |         |       |
| └                                    |                                                                         |   |         |       |
| <hr/>                                |                                                                         |   |         |       |
| └─┬──────────┬──────────┬──────────┬ |                                                                         |   |         |       |
|                                      | /app/my-key.pem                                                         |   | text    | -   1 |
| └                                    |                                                                         |   |         |       |
| <hr/>                                |                                                                         |   |         |       |
| └─┬──────────┬──────────┬──────────┬ |                                                                         |   |         |       |

#### Legend:

- '-': Not scanned

- '0': Clean (no security findings detected)

mywebapp:latest (alpine 3.21.3)

Total: 1 (UNKNOWN: 0, LOW: 0, MEDIUM: 0, HIGH: 1, CRITICAL: 0)

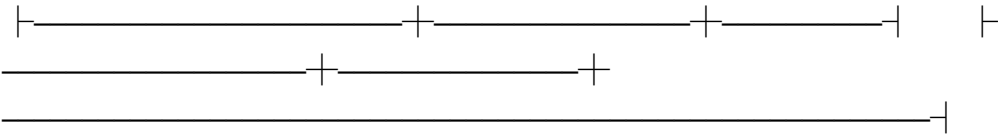
| Library     | Vulnerability  | Severity | Status | Installed Version                                                                                   | Fixed Version | Title                                                 |
|-------------|----------------|----------|--------|-----------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------|
| sqlite-libs | CVE-2025-29087 | HIGH     | fixed  | 3.48.0-r0                                                                                           | 3.48.0-r1     | sqlite: Integer Overflow in SQLite concat_ws Function |
|             |                |          |        | <a href="https://avd.aquasec.com/nvd/cve-2025-29087">https://avd.aquasec.com/nvd/cve-2025-29087</a> |               |                                                       |

Python (python-pkg)

Total: 3 (UNKNOWN: 0, LOW: 0, MEDIUM: 1, HIGH: 2, CRITICAL: 0)

| Library        | Vulnerability | Severity | Status | Installed Version       | Fixed Version | Title                                                    |
|----------------|---------------|----------|--------|-------------------------|---------------|----------------------------------------------------------|
| pip (METADATA) | CVE-2023-5752 | MEDIUM   | fixed  | 23.0.1                  | 23.3          | pip: Mercurial configuration injectable in repo revision |
|                |               |          |        | when installing via pip |               |                                                          |

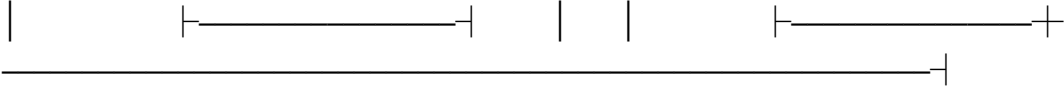
2023-5752 | https://avd.aquasec.com/nvd/cve-



setuptools (METADATA) | CVE-2022-40897 | HIGH | 58.1.0 | 65.5.1 |  
pypa-setuptools: Regular Expression Denial of Service |

(ReDoS) in package\_index.py

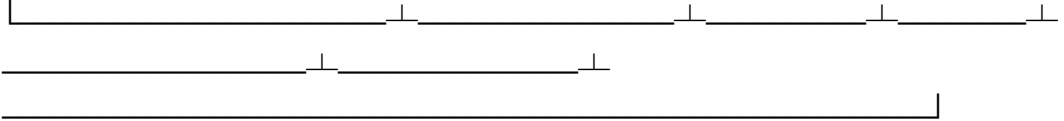
2022-40897 | https://avd.aquasec.com/nvd/cve-



CVE-2024-6345 | 70.0.0 | pypa/setuptools: Remote  
code execution via download |

functions in the package\_index module  
in...

2024-6345 | https://avd.aquasec.com/nvd/cve-



/app/my-key.pem (secrets)

Total: 1 (UNKNOWN: 0, LOW: 0, MEDIUM: 0, HIGH: 1, CRITICAL: 0)

HIGH: AsymmetricPrivateKey (private-key)

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[illegible]

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```
[ec2-user@ip-172-31-11-127 ~]$
```