Qdrant Vector DB & Interactive Search Dashboards

Usage instructions:

1. Launch the product via 1-click from AWS Marketplace. **Wait** until the instance status changes to 'Running' and passes all health checks. Then, connect to your instance using your Amazon private key and the '**ubuntu**' user."

To update software, use: **sudo apt update && sudo apt upgrade -y**

Run docker to start Qdrant UI:

sudo docker start qdrant

Check status:

sudo docker ps

In your browser open:

http://Your_Instance_Pubic_IP:6333/dashboard

Flask + Matplotlib dashboard

In your browser open:

http://Your_Instance_Pubic_IP:5000

Streamlit (search + interactive charts):

In your browser open:

http://You_Instance_Pubic_IP:8501

If you need to restart them run:

sudo systemctl restart flask-qdrant streamlit-qdrant

Load Your Vector Data (example)

Your dashboards always query the vectors collection by default. You need to replace it with a real, reachable snapshot URL. To import a new snapshot into it run. Re

```
curl -X PUT http://localhost:6333/collections/vectors/snapshots/recover \
  -H "Content-Type: application/json" \
  -d '{
       "location":"http://…/your.snapshot"
     }'
```

For example:

```
curl -X PUT http://localhost:6333/collections/vectors/snapshots/recover \
  -H "Content-Type: application/json" \
  -d '{
       "location":"http://snapshots.qdrant.io/midlib.snapshot"
     }'
```

- **Always use vectors as the collection name.**
- **Wait 30–60 seconds for Qdrant to finish loading.**

Verify & Smoke-Test

1. **Qdrant count, run:**

```
curl -s -X POST http://localhost:6333/collections/vectors/points/count \
  -H "Content-Type: application/json" \
  -d '{}' | jq
```

2. **Flask UI HTML**

   curl -s http://localhost:5000/ | head -n 20

3. **Streamlit HTML**

   curl -s http://localhost:8501/ | head -n 20

If all three return valid JSON or HTML (not errors), you're ready to search in your browser.

- *For additional help:*

  https://qdrant.tech/documentation/web-ui/

  https://docs.streamlit.io/develop/api-reference

  https://matplotlib.org/stable/users/index.html

AWS Data

- Data Encryption Configuration: This solution does not encrypt data within the running instance.
- User Credentials are stored: /root/.ssh/authorized_keys & /home/ubuntu/.ssh/authorized_keys
- Monitor the health:
  - Navigate to your Amazon EC2 console and verify that you're in the correct region.
  - Choose Instance and select your launched instance.
  - Select the server to display your metadata page and choose the Status checks tab at the bottom of the page to review if your status checks passed or failed.

Extra Information: (Optional)

Allocate Elastic IP

To ensure that your instance **keeps its IP during restarts** that might happen, configure an Elastic IP. From the EC2 console:

1. Select ELASTIC IPs.
2. Click on the ALLOCATE ELASTIC IP ADDRESS.
3. Select the default (Amazon pool of IPv4 addresses) and click on ALLOCATE.
4. From the ACTIONS pull down, select ASSOCIATE ELASTIC IP ADDRESS.
5. In the box that comes up, note down the Elastic IP Address, which will be needed when you configure your DNS.
6. In the search box under INSTANCE, click and find your INSTANCE ID and then click ASSOCIATE.
7. Your instance now has an elastic IP associated with it.
8. For additional help: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html