

Traccar GPS Fleet Tracking Server by Code Creator

User Guide and Deployment Instructions

Item	Details
Publisher	Code Creator
Product type	AWS Marketplace AMI
Operating system	Ubuntu 26.04 LTS
Application stack	Traccar 6.12.2 with TimescaleDB PostgreSQL and Nginx
Audience	AWS Marketplace subscribers, fleet operators, GPS device administrators, and technical evaluators
Guide version	May 2026

This guide helps you launch the instance, open Traccar, create the first administrator account, register your first GPS device, and use the included Code Creator helper commands.

Important first login password note

When you create the first Traccar account, write down the email address and password or save them in your password manager immediately. There is no default Traccar administrator password in this AMI. The first registered user becomes the administrator. If you lose that password, you may need database level recovery or a fresh setup.

Quick Start

Step	What you do	Success looks like
1	Launch the AMI with a public IPv4 address.	The instance starts and receives a public IP.
2	Open the required security group ports.	Browser and SSH access are available.
3	Connect by SSH using the ubuntu user.	You can read FIRST_LOGIN.txt and use helper commands.
4	Open the Traccar web interface.	The registration screen or login screen appears.
5	Create the first user and save the password.	The first user becomes the Traccar administrator.
6	Register and configure a GPS device.	The device appears in Traccar and can report location data.

Recommended security group ports

Port	Protocol	Source	Purpose
22	TCP	Your IP address only	SSH administration using the ubuntu user.
80	TCP	0.0.0.0/0 or your trusted networks	Code Creator landing page.
8082	TCP	0.0.0.0/0 or your trusted networks	Traccar web interface.
5055	TCP	0.0.0.0/0 or your trusted networks	Optional Traccar Client mobile app testing.
Device specific	TCP or UDP as required	Only trusted sources when possible	Open only the protocol port required by your GPS hardware.

Do not open every possible Traccar device port by default. Use the Traccar supported devices list to find the correct protocol and port for your specific GPS tracker.

Launch and first access

1. Launch the AMI from AWS Marketplace or the EC2 console.
2. Assign a public IPv4 address to the instance.
3. Use a recommended instance size for your workload. For basic testing, t3.medium is acceptable. For a steadier small production deployment, use t3.large or m6i.large. For larger device counts and longer history, consider m6i.xlarge or larger.
4. After launch, wait a few minutes for the first boot service to generate the Traccar database password, create the FIRST_LOGIN file, start Docker containers, and write the current public IP into the landing page.
5. Connect to your instance using your Amazon private key and the **ubuntu** user.

```
ssh -i your-key.pem ubuntu@PUBLIC_IP
```

6. Read the first login notes.

```
cat /home/ubuntu/FIRST_LOGIN.txt
```

7. Show the current access URLs.

```
codecreator-traccar-url
```

Open the web interfaces

Replace PUBLIC_IP with the public IPv4 address of your EC2 instance.

```
http://PUBLIC_IP
```

```
http://PUBLIC_IP:8082
```

The first URL opens the Code Creator landing page. The second URL opens the Traccar web interface.

Create your first Traccar administrator account

8. Open the Traccar web interface at `http://PUBLIC_IP:8082`.
9. Choose the registration option shown by Traccar.
10. Enter your email address and choose a strong password.
11. Important: save this password. This AMI does not provide or store a default Traccar administrator password for you.
12. After registration, log in with the account you just created.
13. The first registered user becomes the administrator for this Traccar server.

Register your first GPS device

These steps are included to help new users get started. Device behavior varies by hardware model, SIM provider, network, and vendor firmware.

14. In the Traccar web interface, find the devices toolbar and click the add button, usually shown as a plus icon.
15. Enter a device name. The name can be descriptive, such as Delivery Van 1, Demo Phone, or Warehouse Tracker.
16. Enter the device identifier. For most devices, this should match the unique ID that the device reports to the server, commonly an IMEI number or serial number.
17. Save the device.
18. Configure the actual GPS device or mobile app to report to your instance public IP.
19. Use the correct Traccar protocol port for the device. The optional Traccar Client mobile app test port in this AMI is 5055.
20. Wait for the device to send location data. Some physical GPS devices need a valid SIM card, cellular data, GPS signal, and vendor specific APN or server settings.

Example for Traccar Client mobile app testing

For quick validation, install the Traccar Client mobile app and point it to your server using port 5055. Also make sure TCP 5055 is open in the EC2 security group.

Server URL: `http://PUBLIC_IP:5055`

Then add the device in Traccar using the identifier reported by the app. The identifier must match between Traccar and the device or app.

Helpful server commands

Command	Purpose
<code>codecreator-traccar-url</code>	Shows the landing page, Traccar web interface, and Traccar Client test port.
<code>codecreator-traccar-status</code>	Shows Docker container status, listening ports, and local health check.
<code>codecreator-traccar-logs</code>	Shows recent Traccar and database logs.
<code>codecreator-traccar-backup</code>	Creates a PostgreSQL backup under <code>/opt/codecreator-traccar/backups</code> .
<code>codecreator-traccar-device-ports</code>	Shows port guidance for Traccar web access and GPS device protocol ports.

`codecreator-traccar-status`

`codecreator-traccar-logs`

`codecreator-traccar-backup`

Common file locations

Path	Purpose
<code>/opt/codecreator-traccar</code>	Main application directory.
<code>/opt/codecreator-traccar/docker-compose.yml</code>	Docker Compose stack definition.
<code>/opt/codecreator-traccar/.env</code>	Runtime versions and generated database password.
<code>/home/ubuntu/FIRST_LOGIN.txt</code>	First boot access notes for the ubuntu user.
<code>/var/www/codecreator-traccar/index.html</code>	Code Creator landing page.
<code>/usr/local/bin/codecreator-traccar-*</code>	Code Creator helper commands.

Troubleshooting

Problem	What to check
The web page does not open	Confirm ports 80 and 8082 are open in the security group. Run <code>codecreator-traccar-status</code> over SSH.
The Traccar page opens but no device location appears	Confirm the device identifier in Traccar matches the IMEI or serial reported by the device. Confirm the device is configured to the instance public IP and correct port.
The device cannot connect	Confirm cellular data, SIM status, APN settings, GPS signal, and the required Traccar device port in the security group.
The first login password is lost	Use your saved password manager entry if available. This AMI does not ship with a default admin password. Recovery may require Traccar administrative or database level procedures.
Need logs	Run <code>codecreator-traccar-logs</code> or use <code>sudo docker compose logs</code> from <code>/opt/codecreator-traccar</code> .

Update and backup notes

Before major application updates, create an EC2 snapshot or AMI backup and run the included backup helper command. GPS tracking data can grow over time, so monitor disk usage and choose a root volume size that matches your retention needs.

df -h /

codecreator-traccar-backup

Official Traccar resources

Traccar Quick Start: <https://www.traccar.org/quick-start/>

Traccar Documentation: <https://www.traccar.org/documentation/>

Traccar Supported Devices and Ports: <https://www.traccar.org/devices/>

Traccar Forums: <https://www.traccar.org/forums/>