

Instalação e Configuração

- [EspoCRM with Docker](#)

EspoCRM with Docker

Link: <https://docs.espocrm.com/administration/docker/installation/#docker-compose>demo:

<https://demo.us.espocrm.com/>

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In this article:

- [Installing with Docker Run](#)
- [Installing with Docker Compose](#)
- [Installing with Traefik](#)
- [Installing with Caddy](#)
- [Upgrading](#)
- [Maintenance](#)
- [Running a shell](#)
- [Docker Secrets](#)
- [Environments](#)
- [Config Environments](#)
- [Image Variants](#)
- [Troubleshooting](#)

Installing

You can deploy EspoCRM using either [Docker Run](#) or [Docker Compose](#). For production environments, we recommend Docker Compose, as it is easier to manage and provides better configuration control. While Docker Run is quicker to set up, it is a good choice if you want to try the system out.

Docker Run

Docker Run allows you to launch EspoCRM containers directly using command-line commands. Each container is created and managed individually. You can run the setup commands as a single operation or step by step, depending on your preference.

See the [Maintenance](#) and [Upgrading](#) sections for operational guidance.

Quick start

```
docker network create espocrm-network && \  
docker volume create espocrm-db && \  
docker volume create espocrm-data && \  
docker volume create espocrm-custom && \  
docker volume create espocrm-custom-client && \  
docker run \  
  --name espocrm-db \  
  --network espocrm-network \  
  --restart unless-stopped \  
  -e MARIADB_DATABASE=espocrm \  
  -e MARIADB_USER=espocrm \  
  -e MARIADB_PASSWORD=your_database_password \  
  -e MARIADB_ROOT_PASSWORD=your_root_password \  
  -v espocrm-db:/var/lib/mysql \  
  -d mariadb && \  
docker run \  
  --name espocrm \  
  --network espocrm-network \  
  --restart unless-stopped \  
  -e ESPOCRM_DATABASE_PASSWORD=your_database_password \  
  -e ESPOCRM_ADMIN_USERNAME=admin \  
  -e ESPOCRM_ADMIN_PASSWORD=your_admin_password \  
  -v espocrm-data:/var/www/html/data \  
  -v espocrm-custom:/var/www/html/custom \  
  -v espocrm-custom-client:/var/www/html/client/custom \  
  -p 8080:80 \  
  -d espocrm/espocrm && \  
docker run \  
  --name espocrm-daemon \  
  --network espocrm-network \  
  --restart unless-stopped \  
  --volumes-from espocrm \  
  --entrypoint docker-daemon.sh \  
  -d espocrm/espocrm
```

Then, access it via `http://localhost:8080` or `http://YOUR_IP_ADDRESS:8080` with credentials `admin` and `your_admin_password`.

Step by step

If you prefer to run the commands individually rather than using the quick start approach above, follow the steps below.

1. Create network

```
docker network create espocrm-network
```

2. Create volumes

```
docker volume create espocrm-db && \  
docker volume create espocrm-data && \  
docker volume create espocrm-custom && \  
docker volume create espocrm-custom-client
```

3. Run MariaDB

```
docker run \  
  --name espocrm-db \  
  --network espocrm-network \  
  --restart unless-stopped \  
  -e MARIADB_DATABASE=espocrm \  
  -e MARIADB_USER=espocrm \  
  -e MARIADB_PASSWORD=your_database_password \  
  -e MARIADB_ROOT_PASSWORD=your_root_password \  
  -v espocrm-db:/var/lib/mysql \  
  -d mariadb
```

4. Run EspoCRM

```
docker run \  
  --name espocrm \  
  --network espocrm-network \  
  --restart unless-stopped \  
  -e ESPOCRM_DATABASE_PASSWORD=your_database_password \  
  -e ESPOCRM_ADMIN_USERNAME=admin \  
  -e ESPOCRM_ADMIN_PASSWORD=your_admin_password \  
  -v espocrm-data:/var/www/html/data
```

```
-v espocrm-custom:/var/www/html/custom \  
-v espocrm-custom-client:/var/www/html/client/custom \  
-p 8080:80 \  
-d espocrm/espocrm
```

5. Run daemon

```
docker run \  
  --name espocrm-daemon \  
  --network espocrm-network \  
  --restart unless-stopped \  
  --volumes-from espocrm \  
  --entrypoint docker-daemon.sh \  
  -d espocrm/espocrm
```

Then, access it via `http://localhost:8080` or `http://YOUR_IP_ADDRESS:8080` with credentials `admin` and `your_admin_password`.

Custom site URL

To set a custom IP address or domain, pass the `ESPOCRM_SITE_URL` environment variable when running the container.

```
docker run \  
  --name espocrm \  
  --network espocrm-network \  
  -p 8080:80 \  
  -e ESPOCRM_DATABASE_HOST=espocrm-db \  
  -e ESPOCRM_DATABASE_USER=espocrm \  
  -e ESPOCRM_DATABASE_PASSWORD=your_database_password \  
  -e ESPOCRM_ADMIN_USERNAME=admin \  
  -e ESPOCRM_ADMIN_PASSWORD=your_admin_password \  
  -e ESPOCRM_SITE_URL=http://192.168.0.100:8080 \  
  -d espocrm/espocrm:latest
```

Then, access it via `http://192.168.0.100:8080` with credentials `admin` and `your_admin_password`.

Reset

If you'd like to start over or delete your data, refer to the [reset and cleanup](#) section.

Docker Compose

Docker Compose simplifies container orchestration by defining all services in a single configuration file. It automatically manages networking, dependencies, and health checks between containers. This approach is ideal for production deployments as it's easier to version-control, scale, and maintain your entire setup.

See the [Maintenance](#) and [Upgrading](#) sections for operational guidance.

1. Create an empty directory.

```
mkdir espocrm-docker
```

2. Change into this directory.

```
cd espocrm-docker/
```

3. Create a `docker-compose.yml` file:

```
services:

  espocrm-db:
    image: mariadb:latest
    container_name: espocrm-db
    environment:
      MARIADB_ROOT_PASSWORD: your_root_password
      MARIADB_DATABASE: espocrm
      MARIADB_USER: espocrm
      MARIADB_PASSWORD: your_database_password
    volumes:
      - espocrm-db:/var/lib/mysql
    restart: unless-stopped
    healthcheck:
      test: ["CMD", "healthcheck.sh", "--connect", "--innodb_initialized"]
      interval: 20s
      start_period: 10s
      timeout: 10s
      retries: 3

  espocrm:
    image: espocrm/espocrm:latest
```

```
container_name: espocrm
environment:
  ESPOCRM_DATABASE_HOST: espocrm-db
  ESPOCRM_DATABASE_USER: espocrm
  ESPOCRM_DATABASE_PASSWORD: your_database_password
  ESPOCRM_ADMIN_USERNAME: admin
  ESPOCRM_ADMIN_PASSWORD: your_admin_password
  ESPOCRM_SITE_URL: "http://localhost:8080"
volumes:
  - espocrm-data:/var/www/html/data
  - espocrm-custom:/var/www/html/custom
  - espocrm-custom-client:/var/www/html/client/custom
restart: unless-stopped
depends_on:
  espocrm-db:
    condition: service_healthy
healthcheck:
  test: ["CMD", "bin/command", "app-check"]
  start_period: 20s
  interval: 60s
  timeout: 20s
  retries: 3
ports:
  - 8080:80
```

```
espocrm-daemon:
  image: espocrm/espocrm:latest
  container_name: espocrm-daemon
  volumes_from:
    - espocrm
  restart: unless-stopped
  entrypoint: docker-daemon.sh
  depends_on:
    espocrm:
      condition: service_healthy
  healthcheck:
    test: ["CMD", "bin/command", "app-check"]
    start_period: 20s
    interval: 180s
    timeout: 20s
```

```
retries: 3
```

```
espocrm-websocket:
```

```
image: espocrm/espocrm:latest
```

```
container_name: espocrm-websocket
```

```
environment:
```

```
  ESPOCRM_CONFIG_USE_WEB_SOCKET: "true"
```

```
  ESPOCRM_CONFIG_WEB_SOCKET_URL: "ws://localhost:8081"
```

```
  ESPOCRM_CONFIG_WEB_SOCKET_ZERO_M_Q_SUBSCRIBER_DSN: "tcp://*:7777"
```

```
  ESPOCRM_CONFIG_WEB_SOCKET_ZERO_M_Q_SUBMISSION_DSN: "tcp://espocrm-websocket:7777"
```

```
volumes_from:
```

```
  - espocrm
```

```
restart: unless-stopped
```

```
entrypoint: docker-websocket.sh
```

```
depends_on:
```

```
  espocrm:
```

```
    condition: service_healthy
```

```
healthcheck:
```

```
  test: ["CMD", "bin/command", "app-check"]
```

```
  start_period: 20s
```

```
  interval: 180s
```

```
  timeout: 20s
```

```
  retries: 3
```

```
ports:
```

```
  - 8081:8080
```

```
volumes:
```

```
  espocrm-db:
```

```
  espocrm-data:
```

```
  espocrm-custom:
```

```
  espocrm-custom-client:
```

More about *Installation Environments* you can find [here](#).

4. Build EspoCRM project from directory.

```
docker compose up -d
```

5. Access it at `http://localhost:8080` or `http://YOUR_IP_ADDRESS:8080` with credentials `admin` and `your_admin_password`.

Reset

If you'd like to start over or delete your data, refer to the [reset and cleanup](#) section.

Traefik

You can read the instructions for installing EspoCRM in conjunction with Traefik in the Docker Compose environment [here](#).

Caddy

You can read the instructions for installing EspoCRM in conjunction with Caddy in the Docker Compose environment [here](#).

Upgrading

Keeping your EspoCRM installation updated ensures you have the latest features, security patches, and bug fixes. The upgrade process differs depending on whether you're using Docker Run or Docker Compose.

Docker Run

To upgrade EspoCRM when using Docker Run:

1. Pull the latest images:

```
docker pull mariadb
docker pull espocrm/espocrm
```

2. Stop all running containers:

```
docker stop espocrm espocrm-db espocrm-daemon
```

3. Remove the old containers:

```
docker rm espocrm espocrm-db espocrm-daemon
```

4. Run the containers again with the same configuration as your original deployment (using the quick start or step by step commands from the [Docker Run](#) section).

Docker Compose

To upgrade EspoCRM when using Docker Compose:

1. Navigate to your EspoCRM container directory.
2. Run the command:

```
docker compose pull && docker compose up -d
```

Within a few minutes the container will be upgraded to the latest version.

Maintenance

After deploying EspoCRM, regular maintenance is essential for optimal performance and troubleshooting. Choose the commands appropriate for your deployment method.

Docker Run

When using Docker Run, you can manage your containers individually using Docker commands.

Status

```
# Running containers
docker ps -a

# Resource usage
docker stats espocrm espocrm-db espocrm-daemon
```

View logs

```
# For a specific container
docker logs espocrm

# Follow logs in real-time
```

```
docker logs -f espocrm
```

Reset and cleanup

```
# Restart all containers
docker restart espocrm espocrm-db espocrm-daemon

# Stop all containers
docker stop espocrm espocrm-db espocrm-daemon

# Remove all containers
docker rm espocrm espocrm-db espocrm-daemon

# Remove network
docker network rm espocrm-network

# Remove volumes (all data will be lost)
docker volume rm espocrm-db espocrm-data espocrm-custom espocrm-custom-client
```

Docker Compose

Docker Compose provides streamlined commands to manage all services together.

Navigate to your EspoCRM container directory (where your `docker-compose.yml` file is located) before running any of the commands below.

Status

```
# Running containers
docker compose ps

# Resource usage
docker compose stats
```

View logs

```
# For all services
docker compose logs

# For a specific service
```

```
docker compose logs espocrm
```

```
# Follow logs in real-time
```

```
docker compose logs -f espocrm
```

Reset and cleanup

```
# Restart all containers
```

```
docker compose restart
```

```
# Stop and remove all containers (preserves volumes and data)
```

```
docker compose down
```

```
# Stop and remove all containers, networks, and volumes (all data will be lost)
```

```
docker compose down --volumes
```

Running a shell

In order to enter the container and view the files, make a rebuild, etc., use the following command (`espocrm` is your container name):

```
docker exec -it espocrm bash
```

Docker Secrets

To securely pass sensitive information, append `_FILE` to any [supported environment variable](#). When this suffix is used, the variable's value is read from a file inside the container instead of being specified directly. This can be used with Docker secrets stored in `/run/secrets/<secret_name>` files. For example:

```
docker run \  
  --name espocrm \  
  --network espocrm-network \  
  -e ESPOCRM_DATABASE_PASSWORD_FILE=/run/secrets/espocrm_db_password \  
  -e ESPOCRM_ADMIN_PASSWORD_FILE=/run/secrets/espocrm_admin_password \  
  -d espocrm/espocrm
```

Installation Environments

These are one-time environment variables used only for a fresh installation. If you need to define configuration options on container startup, see the [Config Environments](#).

ESPOCRM_DATABASE_PLATFORM

Database platform. The possible values: `Mysql` or `Postgresql`. The default value is `Mysql`.

ESPOCRM_DATABASE_HOST

Database host name for EspoCRM. The default value is `espocrm-db`.

ESPOCRM_DATABASE_PORT

Database port for EspoCRM. The default value is empty.

ESPOCRM_DATABASE_NAME

Database name for EspoCRM. The default value is `espocrm`.

ESPOCRM_DATABASE_USER

Database user for EspoCRM. The default value is `espocrm`.

ESPOCRM_DATABASE_PASSWORD

Database password for EspoCRM. The default value is `password`.

ESPOCRM_ADMIN_USERNAME

User name for an administrator of EspoCRM. The default value is `admin`.

ESPOCRM_ADMIN_PASSWORD

User password for an administrator of EspoCRM. The default value is `password`.

ESPOCRM_SITE_URL

The URL of EspoCRM. This option is very important for normal operating of EspoCRM. Examples:

`http://192.168.0.100:8080`, `http://my-crm.local`.

Other optional options

The list of possible values and their default values can be found in EspoCRM Administrator panel > Settings.

- `ESPOCRM_LANGUAGE`
- `ESPOCRM_DATE_FORMAT`
- `ESPOCRM_TIME_FORMAT`
- `ESPOCRM_TIME_ZONE`
- `ESPOCRM_WEEK_START`
- `ESPOCRM_DEFAULT_CURRENCY`
- `ESPOCRM_THOUSAND_SEPARATOR`
- `ESPOCRM_DECIMAL_MARK`

Config Environments

These environment variables are using to define configuration parameters of the EspoCRM every time on the container startup. The parameters that can be changed are defined in the `data/config.php` or `data/config-internal.php`.

Naming

Config environment variables should be converted from the camel-case format. For example: The `exportDisabled` config option should be converted to `ESPOCRM_CONFIG_EXPORT_DISABLED`.

Logger

There are additional options to change the `logger`:

- `ESPOCRM_CONFIG_LOGGER__LEVEL: "DEBUG"`
- `ESPOCRM_CONFIG_LOGGER__MAX_FILE_NUMBER: 30`
- `ESPOCRM_CONFIG_LOGGER__PATH: "data/logs/espo.log"`

For more details, visit [documentation](#).

Allowed types:

String

```
ESPOCRM_CONFIG_WEB_SOCKET_URL: "wss://my-espocrm.com:8080"
```

Integer

```
ESPOCRM_CONFIG_EMAIL_MESSAGE_MAX_SIZE: 10
```

Boolean

```
ESPOCRM_CONFIG_USE_WEB_SOCKET: "true"
```

Null

```
ESPOCRM_CONFIG_CURRENCY_DECIMAL_PLACES: "null"
```

Image Variants

The `espocrm` images come in many flavors, each designed for a specific use case.

- `espocrm:apache`
- `espocrm:fpm`
- `espocrm:fpm-alpine`
- `espocrm:<version>`
- `espocrm:<version>-apache`
- `espocrm:<version>-fpm`
- `espocrm:<version>-fpm-alpine`

Troubleshooting

Incompatible customizations

In most cases, this issue is caused by installed extensions that are not compatible with the upgraded version.

1. Stop your services

Navigate to your EspoCRM directory and run:

```
docker compose down
```

2. Update your `docker-compose.yml`

Pin each service to a specific image version. Replace the image tags:

```
espocrm:
  image: espocrm/espocrm:latest
  # ....

espocrm-daemon:
  image: espocrm/espocrm:latest
  # ....

espocrm-websocket:
  image: espocrm/espocrm:latest
  # ....
```

With versioned tags:

```
espocrm:
  image: espocrm/espocrm:VERSION
  # ....

espocrm-daemon:
  image: espocrm/espocrm:VERSION
  # ....

espocrm-websocket:
  image: espocrm/espocrm:VERSION
  # ....
```

Replace `VERSION` with the EspoCRM version you were running before the upgrade (e.g. `9.3.0`, `9.3.0-fpm`). This lets you revert to that version and adjust your customizations accordingly.

3. Start your services

```
docker compose up -d
```

Migration to EspoCRM 10

To upgrade to EspoCRM v10.0 or later, you must perform a one-time manual migration to update your volume configuration. Starting from v10.0, mounting the entire `/var/www/html` directory is no longer required.

By following these instructions, your customizations and data will be preserved.

Warning

Before performing the following steps, be sure to make a [backup](#).

Note

This applies only to users who mounted data to a local directory (e.g. `./espocrm:/var/www/html`). If you are using Docker volumes, see the [instructions](#) below.

1. Stop your services

Navigate to your EspoCRM directory and run:

```
docker compose down
```

2. Update your `docker-compose.yml`

Replace the existing volume mount:

```
espocrm:
  image: espocrm/espocrm
  container_name: espocrm
  # ....
  volumes:
    - ./espocrm:/var/www/html
  restart: unless-stopped
```

With the following targeted mounts:

```
espocrm:
  image: espocrm/espocrm
  container_name: espocrm
  # ....
  volumes:
    - ./espocrm/data:/var/www/html/data
    - ./espocrm/custom:/var/www/html/custom
    - ./espocrm/client/custom:/var/www/html/client/custom
```

```
restart: unless-stopped
```

Repeat this for all EspoCRM service containers.

3. Remove obsolete files (optional)

This step is optional.

If your local `./espocrm` directory still contains image-provided files from previous versions, removing them is recommended to keep your mount clean. EspoCRM will still work if you keep them.

To remove them, run the following command:

```
rm -rf ./espocrm/application ./espocrm/vendor ./espocrm/bin ./espocrm/html ./espocrm/install
&& \
rm -f ./espocrm/bootstrap.php ./espocrm/clear_cache.php ./espocrm/command.php
./espocrm/cron.php ./espocrm/daemon.php ./espocrm/extension.php ./espocrm/index.php
./espocrm/preload.php ./espocrm/rebuild.php ./espocrm/upgrade.php ./espocrm/websocket.php
./espocrm/LICENSE.txt
```

4. Start your services

```
docker compose up -d
```

Migration to EspoCRM 10 with Docker volumes

To upgrade to EspoCRM v10.0 or later, you must perform a one-time manual migration to update your volume configuration. Starting from v10.0, mounting the entire `/var/www/html` directory is no longer required.

By following these instructions, your customizations and data will be preserved.

Warning

Before performing the following steps, be sure to make a [backup](#).

Note

This applies only to users who mounted data to Docker volumes (e.g. `espocrm:/var/www/html`). If you are using a local directory, see the [instructions](#) above.

1. Stop your services

Navigate to your EspoCRM directory and run:

```
docker compose down
```

2. Create the required volumes

```
docker volume create espocrm-data; \  
docker volume create espocrm-custom; \  
docker volume create espocrm-custom-client
```

3. Migrate your data

```
docker compose run --rm \  
-v espocrm:/source:ro \  
-v espocrm-data:/dest-data \  
-v espocrm-custom:/dest-custom \  
-v espocrm-custom-client:/dest-client-custom \  
--entrypoint sh \  
espocrm -c "  
  cp -a /source/data/. /dest-data/ &&  
  cp -a /source/custom/. /dest-custom/ &&  
  cp -a /source/client/custom/. /dest-client-custom/  
"
```

4. Update your `docker-compose.yml`

Replace the existing volume mount:

```
espocrm:  
  image: espocrm/espocrm  
  container_name: espocrm  
  # ....  
  volumes:  
    - espocrm:/var/www/html  
  restart: unless-stopped
```

```
# ...
```

```
volumes:  
  espocrm-db:  
  espocrm:
```

With the following targeted mounts:

```
espocrm:  
  image: espocrm/espocrm  
  container_name: espocrm  
  # ....  
  volumes:  
    - espocrm-data:/var/www/html/data  
    - espocrm-custom:/var/www/html/custom  
    - espocrm-custom-client:/var/www/html/client/custom  
  restart: unless-stopped  
  
# ...  
  
volumes:  
  espocrm-db:  
  espocrm-data:  
    external: true  
  espocrm-custom:  
    external: true  
  espocrm-custom-client:  
    external: true
```

5. Remove obsolete files (optional)

This step is optional.

If the old `espocrm` Docker volume still contains image-provided files from previous versions, removing them is recommended to keep the volume clean. EspoCRM will still work if you keep them.

To remove them, run the following command:

```
docker run --rm \  
  -v espocrm:/source \  
  rm -rf /source
```

```
--entrypoint sh \  
espocrm -c "rm -rf /source/application /source/vendor /source/bin /source/html  
/source/install && rm -f /source/bootstrap.php /source/clear_cache.php /source/command.php  
/source/cron.php /source/daemon.php /source/extension.php /source/index.php  
/source/preload.php /source/rebuild.php /source/upgrade.php /source/websocket.php  
/source/LICENSE.txt"
```

6. Start your services

```
docker compose up -d
```

Undefined volume: invalid compose project

If you encounter the following error when starting your containers:

```
service "espocrm" refers to undefined volume espocrm/data: invalid compose project
```

Follow the [Migration to EspoCRM 10 with Docker volumes](#) instructions to resolve it.

Switching to MySQL 8.4

In MySQL 8.4 there were changes in the authentication procedure, so you may encounter authentication related errors while upgrading EspoCRM. In this case, it is recommended to take the following steps:

1. Change *authentication plugin* to `caching_sha2_password` for your MySQL users:

Notes:

- Replace the `YOUR_ROOT_PASSWORD` with your MySQL root password.
- Replace the `YOUR_ESPOCRM_DB_PASSWORD` with your MySQL espocrm user password.

```
sudo docker exec -i mysql mysql --user=root -p -e "  
  ALTER USER IF EXISTS 'root'@'localhost' IDENTIFIED WITH caching_sha2_password BY  
'YOUR_ROOT_PASSWORD';  
  ALTER USER IF EXISTS 'root'@'%' IDENTIFIED WITH caching_sha2_password BY  
'YOUR_ROOT_PASSWORD';  
  ALTER USER IF EXISTS 'espocrm'@'localhost' IDENTIFIED WITH caching_sha2_password BY
```

```
'YOUR_ESPOCRM_DB_PASSWORD';  
  ALTER USER IF EXISTS 'espocrm'@'%' IDENTIFIED WITH caching_sha2_password BY  
'YOUR_ESPOCRM_DB_PASSWORD';"
```

2. Remove from *docker-compose.yml* file the following line: `command: --default-authentication-plugin=mysql_native_password`.

3. Restart and build `mysql` container:

```
sudo docker stop mysql && sudo docker rm mysql  
docker compose up -d --build
```