

# AI-03940 OpenProject Production Deployment Docker GCP

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☰ Tags	Project
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Reference Documents:

1. [OpenProject installation with Docker Compose - OpenProject](#)

Here is a clean, organized, and summarized guide for installing OpenProject using **Docker Compose** based on the official technical documentation.

## Prerequisites & System Requirements

- **Hardware (Minimum):** 4 Cores CPU, 4 GB RAM (8 GB recommended for 500+ users), and 20 GB free disk space.
- **Software:** Docker Engine and Docker Compose installed.

## Step-by-Step Installation

### 1. Clone the Repository

Clone the official OpenProject Docker Compose repository and navigate into the folder:

Bash

```
git clone https://github.com/opf/openproject-docker-compose.git --depth=1 --branch=stable/17 openproject
cd openproject
```

(Note: Replace `stable/17` with the latest stable version if applicable).

## 2. Configure Environment Variables

Copy the example environment file to create your own configuration:

Bash

```
cp .env.example .env
```

Open the `.env` file with a text editor (e.g., `nano .env` or `vim .env`) and update the following critical variables:

- `SECRET_KEY_BASE`: Set a unique, secure, long random string (acts as a password for internal encryption).
- `OPENPROJECT_HOST_NAME`: Set your domain name or `localhost:8080`.
- `COLLABORATIVE_SERVER_SECRET`: Override the default secret for the built-in real-time collaboration feature.

## 3. Set Up Data Volumes (Permissions)

If you use the default `OPDATA` path from `.env.example`, ensure the local assets folder exists and has the correct ownership permissions (`1000:1000` is the default OpenProject user inside the container):

Bash

```
sudo mkdir -p /var/openproject/assets  
sudo chown 1000:1000 -R /var/openproject/assets
```

## 4. Launch the Containers

Start the entire OpenProject multi-container stack in detached mode:

Bash

```
docker compose up -d
```

## 5. Access the Application

Initialization will take a few minutes. Once it completes, you can access the interface in your browser:

- **URL:** `http://localhost:8080` (or your configured hostname)
- **Default Credentials:** \* **Username:** `admin`
  - **Password:** `admin` (*You will be prompted to change this immediately upon first login*).

## Operations and Maintenance

### Checking Container Logs

If you experience delays or issues starting up, monitor the running logs:

Bash

```
docker compose logs -f --tail=100
```

### Upgrading OpenProject

To upgrade to a newer stable version, pull the latest changes, back up your instance, and pull new images:

Bash

```
# 1. Fetch latest repository configuration
git pull origin stable/17

# 2. Build the backup control plane and run a data backup
docker compose -f docker-compose.yml -f docker-compose.control.yml build
docker compose -f docker-compose.yml -f docker-compose.control.yml run backup

# 3. Pull newest images and restart the stack
docker compose up -d --build --pull always
```

### Stopping the Stack

To halt the application without deleting persistent volumes:

## Bash

```
docker compose down
```

## Production Best Practice

By default, the setup assumes you are using local development rules. For production environments, it is **strongly recommended** to place OpenProject behind a TLS-terminated reverse proxy (like Nginx, Traefik, or Apache) to enforce safe `HTTPS` connections.