

Guía de OpenProject para Proyectos Formativos (DAW)



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🌐 1. Instalación de OpenProject con Docker

🛠️ 1.1 Configuración de contenedores y entorno

OpenProject ofrece una imagen Docker todo-en-uno, ideal para despliegues rápidos.

Crear volúmenes necesarios:

```
sudo mkdir -p /var/lib/openproject/{pgdata,assets}
```

```
serbontre@lliurex-client:~$ sudo mkdir -p /var/lib/openproject/{pgdata,assets}
```

Crear una cadena aleatoria (clave secreta):

```
serbontre@lliurex-client:~$ head /dev/urandom | tr -dc A-Za-z0-9 | head -c 32
serbontre@lliurex-client:~$ sudo docker run -d -p 8080:80 --name openproject -e OPENPROJECT_HOST_NAME=localhost:8080 -e OPENPROJECT_HTTPS=false -e OPENPROJECT_SECRET_KEY_BASE=2j2bzCffiujegoPD3v6ftrD9oVHEod8o -v /var/lib/openproject/pgdata:/var/openproject/pgdata -v /var/lib/openproject/assets:/var/openproject/assets openproject/openproject:15
```

Reemplaza <una_cadena_aleatoria> con un valor generado.

🚀 1.2 Puesta en marcha de OpenProject

Comando de despliegue:

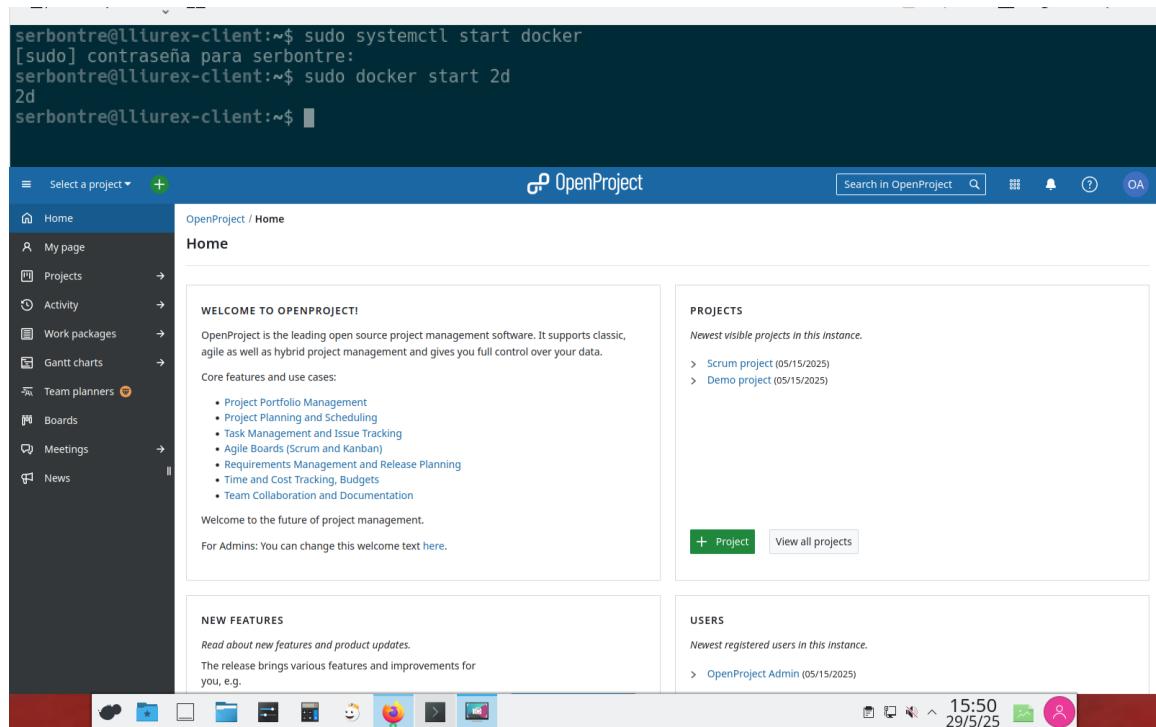
```
docker run -d -p 8080:80 --name openproject \
-e OPENPROJECT_HOST__NAME=localhost:8080 \
-e OPENPROJECT_HTTPS=false \
-e OPENPROJECT_SECRET_KEY_BASE=<una_cadena_aleatoria> \
-v /var/lib/openproject/pgdata:/var/openproject/pgdata \
-v /var/lib/openproject/assets:/var/openproject/assets \
openproject/openproject:15
```

✓ Accede a OpenProject:

<http://localhost:8080>

Usuario: admin

Contraseña: admin



🔗 2. Acceso a los Datos de OpenProject

🔒 2.1 Acceso mediante API REST

La API REST permite autenticarte y trabajar con los datos del sistema.

Autenticación con curl:

```
APIKEY=<coloca_tu_clave_aquí>
curl -u apikey:$APIKEY http://localhost:8080/api/v3/projects
```

Las respuestas están en formato HAL+JSON.

Puedes utilizar herramientas como Postman para facilitar pruebas.

```
[raforber@lliurex-client:~]$ curl -u apikey:7452b83acfc928100e0e6f7871fc595815677ec4759e581956e40blebbeid766 http://localhost:8080/api/v3/projects
curl: (50) Recv failure: Conexión reincidenteada por la máquina remota
raforber@lliurex-client:~$ curl -u apikey:7452b83acfc928100e0e6f7871fc595815677ec4759e581956e40blebbeid766 http://localhost:8080/api/v3/projects
curl: (50) Recv failure: Conexión reincidenteada por la máquina remota
raforber@lliurex-client:~$ curl -u apikey:7452b83acfc928100e0e6f7871fc595815677ec4759e581956e40blebbeid766 http://localhost:8080/api/v3/projects
{"_type": "Collection", "total": 2, "count": 2, "pageSize": 20, "offset": 1, "embedded": {"elements": [{"_type": "Project", "id": 2, "identifier": "your-scrum-project", "name": "Scrum project", "active": true, "public": true, "description": {"format": "markdown", "raw": "This is a short summary of the goals of this demo Scrum project.", "html": "<p class='op-uc-p'>This is a short summary of the goals of this demo Scrum project.</p>"}, "createdAt": "2025-05-15T18:37:16.980Z", "updatedAt": "2025-05-15T18:37:16.980Z", "statusExplanation": {"format": "markdown", "raw": "All tasks are on schedule. The people involved know their tasks. The system is completely set up.", "html": "<p class='op-uc-p'>All tasks are on schedule. The people involved know their tasks. The system is completely set up.</p>"}, "links": {"self": {"href": "/api/v3/projects/2"}, "title": "Scrum project", "createWorkPackage": {"href": "/api/v3/projects/2/work_packages/form", "method": "post"}, "createWorkPackageImmediately": {"href": "/api/v3/projects/2/work_packages", "method": "post"}, "workPackages": {"href": "/api/v3/projects/2/work_packages", "method": "get"}, "versions": {"href": "/api/v3/projects/2/versions", "method": "get"}, "memberships": {"href": "/api/v3/memberships?filters=%5B%7B%22project%22%3A%223A%22%20%22operator%22%3A%22%3D%22%20%22values%22%3A%5B%2222%22%5D%7D%5D"}, "types": {"href": "/api/v3/projects/2/types", "method": "get"}, "update": {"href": "/api/v3/projects/2", "method": "patch"}, "delete": {"href": "/api/v3/projects/2", "method": "delete"}, "schema": {"href": "/api/v3/projects/schema"}, "status": {"href": "/api/v3/project_statuses/on_track", "method": "get"}, "ancestor": [], "projectStorage": {"href": "/api/v3/project_storages?filters=%5B%7B%22project_id%22%3A%223A%22%20%22operator%22%3A%22%3D%22%20%22values%22%3A%5B%2222%22%5D%7D%5D"}, "parent": {"href": "#null"}}, "type": "Project", "id": 1, "identifier": "your-scrum-project", "name": "Scrum project", "active": true, "public": true, "description": {"format": "markdown", "raw": "This is a short summary of the goals of this demo project.", "html": "<p class='op-uc-p'>This is a short summary of the goals of this demo project.</p>"}, "createdAt": "2025-05-15T18:37:13.915Z", "updatedAt": "2025-05-15T18:37:13.915Z", "statusExplanation": {"format": "markdown", "raw": "All tasks are on schedule. The people involved know their tasks. The system is completely set up.", "html": "<p class='op-uc-p'>All tasks are on schedule. The people involved know their tasks. The system is completely set up.</p>"}, "links": {"self": {"href": "/api/v3/projects/1"}, "title": "Demo project", "createWorkPackage": {"href": "/api/v3/projects/1/work_packages/form", "method": "post"}, "createWorkPackageImmediately": {"href": "/api/v3/projects/1/work_packages", "method": "post"}, "workPackages": {"href": "/api/v3/projects/1/work_packages", "method": "get"}, "versions": {"href": "/api/v3/projects/1/versions", "method": "get"}, "memberships": {"href": "/api/v3/memberships?filters=%5B%7B%22project%22%3A%7B%22operator%22%3A%22%3D%22%20%22values%22%3A%5B%2221%22%5D%7D%5D"}, "types": {"href": "/api/v3/projects/1/types", "method": "get"}, "update": {"href": "/api/v3/projects/1", "method": "patch"}, "delete": {"href": "/api/v3/projects/1", "method": "delete"}, "schema": {"href": "/api/v3/projects/schema"}, "status": {"href": "/api/v3/project_statuses/on_track", "method": "get"}, "ancestor": [], "projectStorage": {"href": "/api/v3/project_storages?filters=%5B%7B%22project_id%22%3A%223A%22%20%22operator%22%3A%22%3D%22%20%22values%22%3A%5B%2221%22%5D%7D%5D"}, "parent": {"href": "#null"}}, "link": {"self": {"href": "/api/v3/projects/1"}, "filter": {"filters": "%5B%7B%22project%22%3A%223A%22%20%22operator%22%3A%22%3D%22%20%22values%22%3A%5B%2221%22%5D%7D%5D"}, "page": 1, "templateId": 1, "template": {"href": "/api/v3/projects/1?pageSize=1&page=20", "method": "get"}, "changeSize": {"href": "/api/v3/projects/1?pageSize=10", "method": "get"}, "filters": "%5B%7B%22project%22%3A%223A%22%20%22operator%22%3A%22%3D%22%20%22values%22%3A%5B%2221%22%5D%7D%5D", "page": 20, "template": "true"}, "representations": {"href": "/projects.csv?filters=%5B%5D&ofset=16"}, "changeSize": {"href": "/api/v3/projects/1?pageSize=10", "method": "get"}, "filters": "%5B%7B%22project%22%3A%223A%22%20%22operator%22%3A%22%3D%22%20%22values%22%3A%5B%2221%22%5D%7D%5D", "page": 20, "template": "true"}, "representations": {"href": "/projects.csv?filters=%5B%5D&ofset=16"}, "raforber@lliurex-client:~$ curl -u apikey:7452b83acfc928100e0e6f7871fc595815677ec4759e581956e40blebbeid766 http://localhost:8080/api/v3/projects"
```

3. Desarrollo Web

Comenzamos el desarrollo de:

- HTML
- CSS
- JSON

Todo disponible en el repositorio de GitHub del proyecto.

