

# DOCUMENTACIÓN DE DESPLIEGUE DEL PROYECTO



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2.º Desarrollo de Aplicaciones Web

# ÍNDICE

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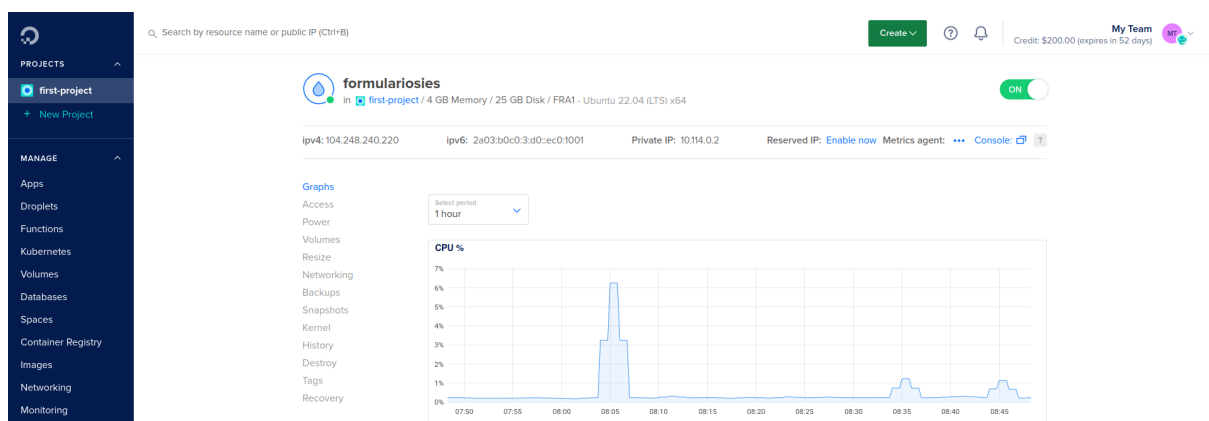
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# DIGITAL OCEAN

*DigitalOcean* es una empresa de servicios de alojamiento en la nube que proporciona infraestructura de servidores virtuales para desarrolladores, startups y empresas. Fundada en 2011, DigitalOcean se ha convertido en una opción popular para aquellos que buscan una solución de alojamiento en la nube accesible y fácil de usar.

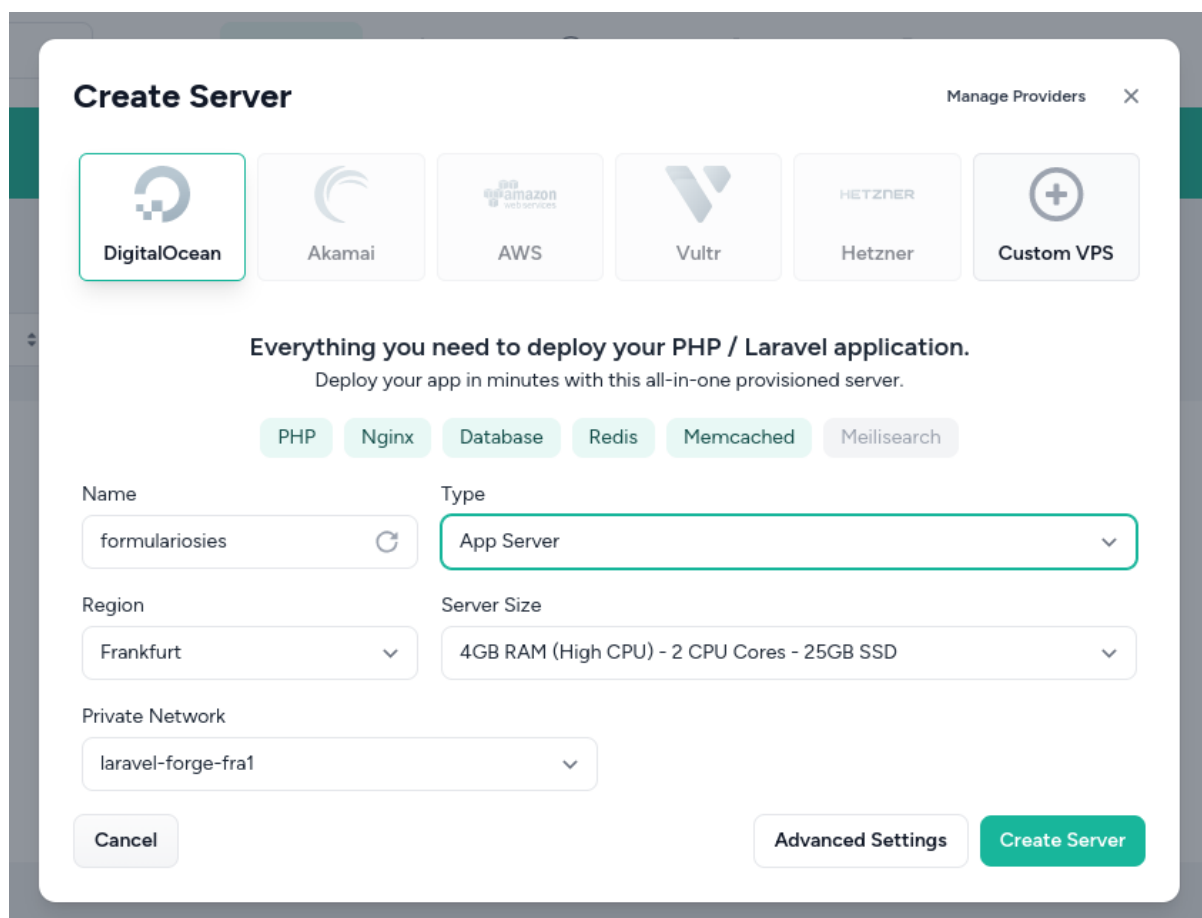
*DigitalOcean* ofrece una amplia gama de servicios en la nube, que incluyen servidores virtuales privados (conocidos como "*droplets*"), almacenamiento en bloque, almacenamiento de objetos, redes definidas por software y servicios de administración de bases de datos. Los usuarios pueden elegir entre diferentes planes y configuraciones para adaptarse a sus necesidades, y tienen la flexibilidad de escalar recursos según sea necesario.

The screenshot shows the DigitalOcean dashboard for a user named 'My Team'. The left sidebar lists various management options under 'PROJECTS' and 'MANAGE'. The main content area shows the 'first-project' resources page. Under the 'Resources' tab, a list of 'DROPLETS (1)' is shown, with the droplet 'formulariosies' selected. A 'Best Practices for Your Data' panel is displayed, recommending features like mounting a block storage volume and enabling automatic backups. The droplet details show it is running Ubuntu 22.04 (LTS) x64 with 4 GB Memory and 25 GB Disk.



## CONEXIÓN DEL PROYECTO DE DIGITAL OCEAN CON LARAVEL FORGE

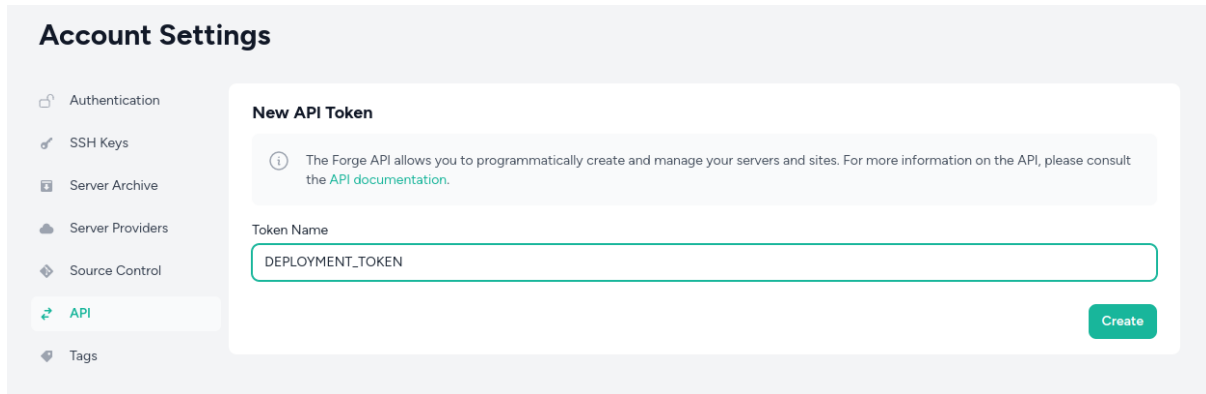
*Laravel Forge* es una herramienta de implementación y administración de servidores que está diseñada específicamente para proyectos desarrollados en el *framework* de *PHP* llamado *Laravel*. *Laravel Forge* simplifica el proceso de configuración y administración de servidores, lo que permite a los desarrolladores centrarse en la construcción de sus aplicaciones en lugar de preocuparse por la infraestructura subyacente.



The screenshot shows the 'Create Server' modal in Laravel Forge. At the top, there's a 'Manage Providers' link and a close button. Below this, a row of provider buttons is shown: DigitalOcean (selected), Akamai, AWS, Vultr, Hetzner, and Custom VPS. A message states: 'Everything you need to deploy your PHP / Laravel application. Deploy your app in minutes with this all-in-one provisioned server.' Below the message are several technology tags: PHP, Nginx, Database, Redis, Memcached, and Meilisearch. The form fields include: 'Name' (formulariosies), 'Type' (App Server), 'Region' (Frankfurt), 'Server Size' (4GB RAM (High CPU) - 2 CPU Cores - 25GB SSD), and 'Private Network' (laravel-forge-fra1). At the bottom, there are 'Cancel', 'Advanced Settings', and 'Create Server' buttons.

## TOKEN DESPLIEGUE

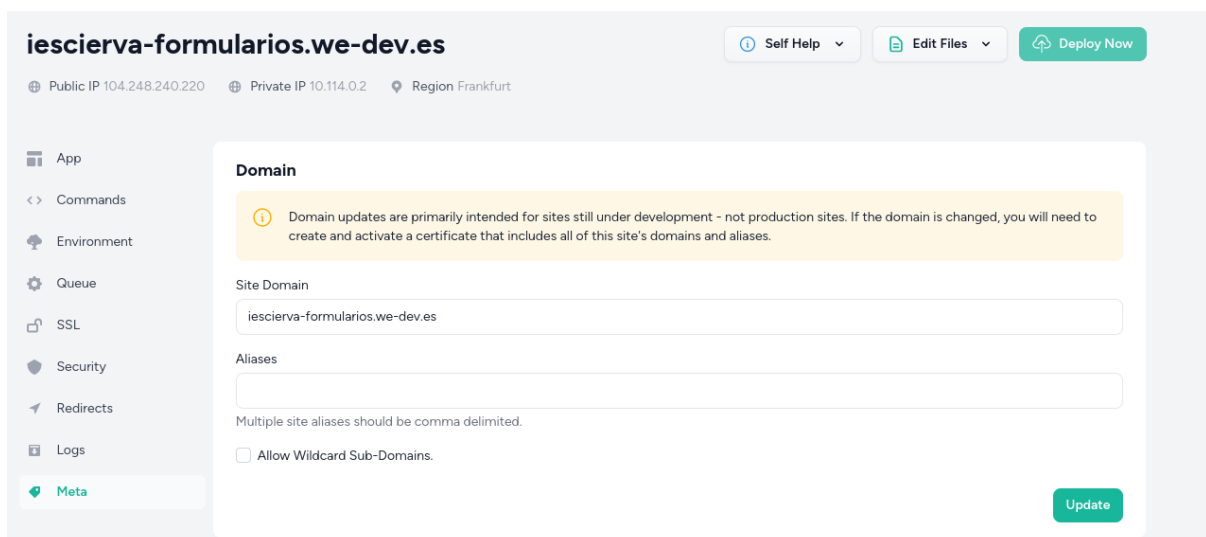
En esta imagen se configura el token necesario para el despliegue de la aplicación.



The screenshot shows the 'Account Settings' page in Forge. On the left is a sidebar with navigation links: Authentication, SSH Keys, Server Archive, Server Providers, Source Control, API (highlighted), and Tags. The main content area is titled 'New API Token'. It contains an information box stating: 'The Forge API allows you to programmatically create and manage your servers and sites. For more information on the API, please consult the [API documentation](#).' Below this is a 'Token Name' label and a text input field containing 'DEPLOYMENT\_TOKEN'. A green 'Create' button is located at the bottom right of the form.

## ESTABLECIMIENTO DOMINIO

Aquí se ha usado un dominio del que ya se disponía (*we-dev.es*) para configurar la url del proyecto.



The screenshot shows the 'Domain' configuration page in Forge for the project 'iescierva-formularios.we-dev.es'. At the top, there are buttons for 'Self Help', 'Edit Files', and 'Deploy Now'. Below these, site details are listed: 'Public IP 104.248.240.220', 'Private IP 10.114.0.2', and 'Region Frankfurt'. A sidebar on the left contains navigation links: App, Commands, Environment, Queue, SSL, Security, Redirects, Logs, and Meta (highlighted). The main content area is titled 'Domain' and features a warning box: 'Domain updates are primarily intended for sites still under development - not production sites. If the domain is changed, you will need to create and activate a certificate that includes all of this site's domains and aliases.' Below the warning, there is a 'Site Domain' label and a text input field containing 'iescierva-formularios.we-dev.es'. Underneath is an 'Aliases' label and an empty text input field. A note states: 'Multiple site aliases should be comma delimited.' At the bottom, there is a checkbox labeled 'Allow Wildcard Sub-Domains' which is currently unchecked. A green 'Update' button is located at the bottom right of the form.

# CONFIGURACIÓN SSL

Para darle más seguridad a la aplicación, se ha configurado el SSL, que nos permite que nuestro proyecto tenga el protocolo *https*.

The screenshot shows the Netlify dashboard for the site **iescierva-formularios.we-dev.es**. The top navigation bar includes links for **Self Help**, **Edit Files**, and **Deploy Now**. Below the site name, it displays the **Public IP 104.248.240.220**, **Private IP 10.114.0.2**, and **Region Frankfurt**.

The left sidebar contains a menu with the following items: **App**, **Deployments**, **Commands**, **Packages**, **Notifications**, **Environment**, **Queue**, **SSL** (highlighted in green), **Security**, **Redirects**, **Logs**, and **Meta**.

The main content area is divided into two sections:

- New Certificate**: This section contains four buttons: **Create Signing Request**, **Install Existing**, **Let's Encrypt** (which is highlighted with a green border), and **Clone Certificate**.
- Let's Encrypt**: This section provides information about Let's Encrypt certificates and includes a form for configuration.
  - An information box states: "Let's Encrypt provides free SSL certificates that are widely recognized across all major browsers. If necessary, you may separate multiple domains using commas. [Learn more.](#)"
  - The **Domains** field contains the text `iescierva-formularios.we-dev.es`.
  - The **Public Key Algorithm** dropdown menu is set to `ECDSA (secp384r1)`.
  - A checkbox labeled **Prefer "ISRG Root X1" Chain** is currently unchecked. Below it, a note reads: "We recommend you keep this option disabled. While selecting this option does work around a bug present in deprecated and unsafe TLS library versions, it disables extended support for older Android versions ( >=2.3.6 and <= 7.1.1 )".
  - An **Obtain Certificate** button is located at the bottom right of the form.

At the bottom right of the dashboard, there is a **Delete Site** link.

## SCRIPT DESPLIEGUE

Y, por último, en el script de despliegue se dotan de los comandos necesarios para que la aplicación se despliegue sin ningún problema.

### Deploy Script

```
1 cd /home/forge/iescierva-formularios-we-dev.es
2 git pull origin $FORGE_SITE_BRANCH
3
4 $FORGE_COMPOSER install --no-dev --no-interaction --prefer-dist --optimize-autoloader
5
6 ( flock -w 10 9 || exit 1
7   echo "Restarting FPM..."; sudo -S service $FORGE_PHP_FPM reload ) 9>/tmp/fpmlock
8
9 composer install
10 php artisan livewire:publish
11
12 php artisan optimize:clear
13 php artisan view:clear
14 php artisan route:clear
15 php artisan config:clear
16 php artisan view:cache
17 php artisan route:cache
18 php artisan storage:link
19 php artisan up
20
21 npm install
22 npm run build
23
```

 Make `.env` variables available to deploy script

Update