

# Origin Dshop - GCP Deployment Guide

This step-by-step guide will walk you through setting up an Origin protocol Dshop deployer on GCP.

## Notes:

1. If you have any questions, feel free to contact [dshop@originprotocol.com](mailto:dshop@originprotocol.com).
2. To be able to click on the URLs within this doc, rather than viewing it from your browser download it then use a pdf viewer.

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# Deployment


Go to the Origin Protocol Dshop solution on the GCP marketplace:

<https://console.cloud.google.com/marketplace/details/originprotocol-public/origin-protocol-dshop>

Google Cloud Platform

OriginProtocol-public

Search



## Dshop e-commerce store

Origin Protocol

Estimated costs: \$25.23/month

Launch your decentralized e-commerce store in minutes

LAUNCH

**Runs on**  
Google Compute Engine

**Type**  
Single VM

**Last updated**  
7/1/20, 12:04 PM

**Category**  
Other

**Version**  
Alpha release

**Operating system**  
Linux debian-10-buster

**Overview**

Dshop is a free, open-source, and fully customizable e-commerce store. Any merchant or developer can create a Dshop in just a few minutes to be hosted on Google Cloud. Dshop supports both credit card and cryptocurrency payments out of the box and is censor-ship resistant. Dshop is built on the Ethereum blockchain and IPFS.

[Learn more](#)

**About Origin Protocol**

Origin Protocol enables blockchain-powered commerce. Our vision is to allow buyers and sellers to connect and transact without middlemen on the blockchain. Our decentralized and open source e-commerce platform serves as the foundation for dozens of e-commerce and marketplace applications.

**Pricing**

Free You can customize the configuration later when deploying this solution.

Estimated costs are based on 30-day, 24 hours per

Item	Estimated costs
Origin Protocol DShop Usage Fee	\$0.00/month

Click on the "LAUNCH" button at the top of the page

Google Cloud Platform

Origin

Q

Search products and resources

←

New Dshop e-commerce store deployment

Deployment name

origin-protocol-dshop

Zone

us-central1-a

Machine type

1 vCPU

3.75 GB memory

Customize

Boot Disk

Boot disk type

Standard Persistent Disk

Boot disk size in GB

20

Networking

Network interfaces

default default (10.128.0.0/20)

+ Add network interface

You have reached the maximum number of one network interface

Firewall

Add tags and firewall rules to allow specific network traffic from the Internet

⚠ Creating certain firewall rules may expose your instance to the Internet. Please check if the rules you are creating are aligned with your security preferences. [Learn more](#)

✓ Allow HTTP traffic from the Internet

Source IP ranges for HTTP traffic

0.0.0.0/0, 192.169.0.2/24

✓ Allow HTTPS traffic from the Internet

Source IP ranges for HTTPS traffic

0.0.0.0/0, 192.169.0.2/24

More

Deploy

ORIGIN

DSHOP

Dshop e-commerce store overview

Solution provided by Origin Protocol

\$25.23 per month estimated

Effective hourly rate \$0.035 (730 hours per month)

Details

Software

Operating System

Linux (debian-10-buster)

Terms of Service

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By using this product, you understand that certain account and usage information may be shared with Origin Protocol for the purposes of sales attribution, performance analysis, and support.

Google is providing this software or service "as-is" and will not perform any ongoing maintenance. Ongoing upgrades and maintenance are your responsibility.

It is recommended to use the default settings, but you can edit them if you'd like, for example to create the instance in a different zone or to use a different machine type. Do keep the firewall rules that allow HTTP and HTTPS traffic enabled. This is required for the Dshop admin UI and API to receive traffic.

For the solution to be functional, we recommend at a bare minimum 1 GB of RAM and 10 GB disk.

When you are done with editing the instance settings, click "Deploy"

Google Cloud Platform

Origin

Search products and resources

Deployment Manager

Deployments

Type registry

origin-protocol-dshop

STOP

DELETE

origin-protocol-dshop

EXIT PREVIEW

origin-protocol-dshop is being deployed

Overview - origin-protocol-dshop

ORIGIN

origin-protocol-dshop

origin-protocol-dshop.jinja

origin-protocol-dshop-vm-tmpl

vm\_instance.py

origin-protocol-dshop-vm

vm instance

origin-protocol-dshop-tcp-80

firewall

origin-protocol-dshop-tcp-443

firewall

ORIGIN

DSHOP

Dshop e-commerce store

Solution provided by Origin Protocol

Instance

origin-protocol-dshop-vm

Instance zone

us-west1-a

Instance machine type

n1-standard-1

MORE ABOUT THE SOFTWARE

Get started with Dshop e-commerce store

You will be able to use Dshop e-commerce store after the deployment is completed.

Documentation

Open source

README

Support

Please email support requests to [dshop@originprotocol.com](mailto:dshop@originprotocol.com). Typically, we will respond within 12 hours. [Go to Origin Protocol support](#)

Template properties

SHOW MORE

Wait for the deployment to finish.

Once the deployment is complete, you should see a message that says "origin-protocol-dshop has been deployed".

Write down the Admin password that shows up on the right hand side of the panel. You will need it when creating the Dshop super-admin account.

The screenshot displays the Google Cloud Platform (GCP) Deployment Manager interface. The top navigation bar includes the GCP logo, the text "Google Cloud Platform", a dropdown menu for "Origin", and a search bar labeled "Search products and resources".

The main content area is divided into two panels. The left panel, titled "Deployment Manager", shows a list of deployments. The deployment "origin-protocol-dshop-9" is highlighted, and a message indicates it has been successfully deployed. Below this, a tree view shows the deployment's structure, including files like "origin-protocol-dshop-jinja", "origin-protocol-dshop-vm-template.py", "origin-protocol-dshop-vm-instance", "generated-password-0.py", "origin-protocol-dshop-9-tcp-80-firewall", and "origin-protocol-dshop-9-tcp-443-firewall".

The right panel, titled "origin-protocol-dshop", provides details about the deployment. It features the "ORIGIN DSHOP" logo and the text "Dshop e-commerce store" and "Solution provided by Origin Protocol". A table lists the configuration details:

Property	Value
Admin user	superadmin
Admin password (Temporary)	vDLub4vgBb
Instance	<a href="#">origin-protocol-dshop-9-vm</a>
Instance zone	us-west2-c
Instance machine type	n1-standard-1

Below the table, there is a link "MORE ABOUT THE SOFTWARE". The section "Get started with Dshop e-commerce store" includes an "SSH" button. The "Suggested next steps" section lists two tasks: "Change the temporary password" and "Assign a static external IP address to your VM instance". The "Documentation" section includes links to "Open source README" and "GCP getting started guide". The "Support" section provides contact information for support requests.

The Dshop deployer should now be running on the GCP compute instance that was started. Click on the instance link on the top right of the page to access the details of the instance.

The screenshot shows the Google Cloud Platform interface. The top navigation bar includes the Google Cloud Platform logo, a search bar, and user profile information. The left sidebar lists various Compute Engine resources, with 'VM instances' selected. The main content area displays the details for the VM instance 'origin-protocol-dshop-vm'. The 'Details' tab is active, showing remote access options (SSH, serial console), logs, instance ID, machine type, reservation, CPU platform, display device settings, zone, labels, and creation time. A table at the bottom lists the network interfaces, showing the primary internal IP and the external IP address.

Name	Network	Subnetwork	Primary internal IP	Alias IP ranges	External IP	Network Tier	IP forwarding	Network details
nic0	default	default	10.138.0.9	—	34.83.254.39 (ephemeral)	Premium	Off	<a href="#">View details</a>

To check if Dshop has been deployed successfully to the instance, look for the external IP address assigned to the instance. Copy it to your clipboard, then in a browser, go to the URL: `http://<IP address>`. You should see the Dshop deployer's initial onboarding page for creating an admin account, confirming that the installation was successful.

Before you proceed with the server configuration, configure the instance following the instructions below to ensure the information you will be entering transits via a secure channel (HTTPS).

# Instance configuration

## Static IP address

For security purposes, it is advisable to reserve a static IP address for the compute instance running the Dshop stack rather than using an ephemeral one. Otherwise, if the instance gets restarted, the ephemeral IP may get assigned to somebody else's instance, resulting in You can do so by following [these instructions](#).

## Custom domain

The Dshop stack exposes a UI and APIs that must be accessed through secure HTTP (HTTPS). In order for HTTPS to get set up, you need to have a custom domain pointing to the external IP of the GCP compute instance. You can do so by using a domain registrar such as <https://domains.google> or equivalent.

As an example, here are the steps to use on Google Domains:

1. Login to <https://domains.google>
2. Either get a new domain or click on an existing one you already own.
3. In the left menu for your domain, click on "DNS"
4. Look for the "custom resource records" section on the DNS page
5. Add a record of type A pointing to the IP of the instance. For example, if your domain is "myDshop.com", you could add a record "api" of type A pointing to the IP address of the instance. The Dshop APIs and admin UI would then be accessible via <https://api.myDshop.com>

### Custom resource records

Resource records define how your domain behaves. Common uses include pointing your domain at your web server or configuring email delivery for your domain. [Learn more](#)

api	A	1H	12.34.56.78	+	Add
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Wait a few minutes for the domain change to propagate. The SSL certificate will get created automatically on the instance.

You should now be able to access the Dshop onboarding page by going to `https://<your domain>` in your browser.

# Server configuration

Enter the super-admin information on the onboarding page.

Important: make sure to use the password provided on the GCP console after the deployment was completed.




Start your free store in under 5 minutes. Get started now!

**Name**

**Email**

**Password**





Then configure the server:

ORIGIN  
DSHOP

Configure your server

Ethereum Network

Mainnet

Root Domain

eg mydshop.com

Provider WebSocket

eg wss://wss.infura.io/v3/YOUR-PROJECT-ID

Provider HTTPS

eg https://mainnet.infura.io/v3/YOUR-PROJECT-ID

IPFS Gateway

https://ipfs-prod.ogn.app

IPFS API

https://ipfs.ogn.app

Web3 PK

Pinata Key

Pinata Secret

IPFS Cluster User

IPFS Cluster Password

Cloudflare Email

Cloudflare API Key

GCP Service Account Credentials

Discord Webhook

Show advanced settings

Save

Congratulations! You have successfully set up the Dshop deployer which allows you (and anyone you give access to) to launch and administer Dshops.

# Shop creation and deployment

For details about creating and launching a Dshop, follow the steps described in this video: [Get started with Dshop - launch your store in minutes](#)