

Deploy own docker-compose image using Elestio "Custom docker-compose"

This tutorial will walk you through the process of deploying your own custom Docker image to the Elestio cloud.

Use cases:

- Deploy one or multiple instances of stateful apps like Wordpress / Directus / MySQL / Redis / RabbitMQ / ...
- Deploy an internal service available only to your private network
- Deploy an application that was created elsewhere and published to a private Docker registry.

To learn more about the elestio CI/CD, go [here](#).

If you're new, sign up for [Elestio](#), otherwise, login to your existing account.

Deploy a custom docker-compose image to the Elestio cloud using the CI/CD custom docker-compose template.

Step 1:

Go to CI/CD from the left sidebar.

Step 2:

Now, select the **Docker compose** as the deployment source.

1. Deployment Method



Select the deployment method of your Service between Github, Gitlab and Docker.

When using the Github/Gitlab deployment method, each time a change is pushed to your repository, a new deployment of your service will occur.



Github

GitHub, Inc. is a provider of Internet hosting for software development and version control using Git. It offers the distributed version control and...



Gitlab

GitLab Inc. is the open-core company that provides GitLab, the DevOps software that combines the ability to develop, secure, and...



Docker compose

Compose is a tool for defining and running multi-container Docker applications. With Compose, you use a YAML file to configure your...

Step 3:

“ Here you can see the most interesting and well-liked tech stacks' elestio templates.

Select a docker-compose template

Search templates by name



Custom docker-compose

Add your custom docker-compose content



Redis + RedisInsight

Redis is the most popular in-memory database, cache and message broker.



Postgres + PgAdmin

Postgres is a relational database system known for reliability and performance.



TimescaleDB + PgAdmin

TimescaleDB is the leading relational database with support for time-series data.



MySQL + PhpMyAdmin

MySQL is a relational database that runs on almost all platforms.



MariaDB + PhpMyAdmin

The open source relational database.



MongoDB + MongoExpress

MongoDB is a document-oriented NoSQL database used for high-volume data storage.



ClickHouse + Tabix

ClickHouse is a column-oriented DBMS for online analytical processing.



OpenSearch + Dashboards

Open source distributed and RESTful search engine.



MSSQL + SQLPad

Microsoft SQL Server is a relational database management system developed by Microsoft



RabbitMQ

RabbitMQ is the most widely deployed message broker



Squid

Lightweight, Fast & powerful proxy server



Jenkins

The leading open source automation server



Jenkins Agent

Agent worker for Jenkins, used to do Builds



WG-Easy

The easiest way to run WireGuard VPN + Web-based Admin UI



Ubuntu Desktop

Full Desktop experience in the browser with a selection of tools + Windows compatibility with Wine.



Trilium

Build your personal knowledge base with Trilium Notes



Mealie

A self-hosted recipe manager and meal planner with a RestAPI backend and a reactive frontend.



ChiefOnboarding

Onboarding a new hire is often complicated and chaotic, especially in remote teams.



Traduora

Automate your translation workflow today.



Rustdesk Server

Open source virtual / remote desktop infrastructure for everyone!



Docspell

Docspell assists in organizing your piles of digital documents with minimal effort.



Affine

AFFINE is a next-gen knowledge base that brings planning, sorting and creating all together.



LanguageTool

LanguageTool is an Open Source proofreading software for English, Spanish, French, German, Portuguese, Polish, Dutch, and more than 20...



Answer

An open-source knowledge-based community software.



MetaTrader 5

Trade on Forex & stock markets in a virtual desktop from your browser



Supabase

Supabase is an open source Firebase alternative.



Airbyte

Airbyte is an ETL platform that helps you replicate your data in your warehouses, lakes and databases.



Documize

Modern Confluence alternative designed for internal & external docs, built with Go + EmberJS



MinIO

MinIO is a leader in hybrid cloud and multi-cloud object storage.



Guacamole

Apache Guacamole is a clientless remote desktop gateway. It supports standard protocols like VNC, RDP, and SSH.



MeshCentral

Connect to your home or office devices from anywhere with MeshCentral. Management and Remote desktop.



Keycloak

Identity and access management solution



Metabase

Simply and quickly gathers business intelligence and analytics for your company.



Bookstack

Easy-to-use platform for organising and storing information.



Directus

Open Data Platform for managing the content of any SQL database.



Uptime-Kuma

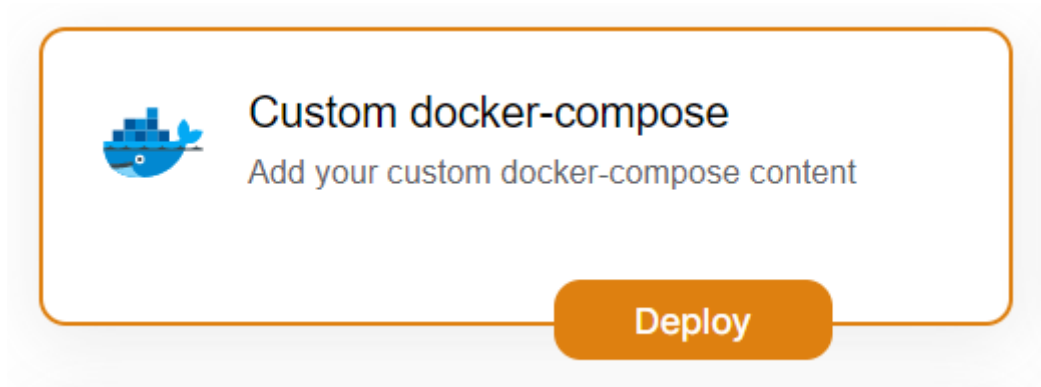


SFTPGo



Ghost

Now, for deploying customer docker images, select **Custom docker-compose** template; otherwise, if you want to deploy from **elestio example** templates, select the template you want to deploy and follow the [steps](#).



Now click the **Deploy** button to proceed.

Step 4:

Choose Deployment Targets

1. Choose Deployment Targets

 Where do you want this service to be deployed?

Deploy on a new VM

Deploy on existing VM

Deployment mode

Single Node

Cluster

Elestio offers two types of deployment targets "**Deploy on a new VM**" and "**Deploy on an existing VM**".

You are allowed to set up n pipelines on each elestio CI/CD target/VM. According to the project configuration you select and the project you're deploying, the number of pipelines varies.

If you want to deploy these projects as a pipeline on a new Target/VM or don't have any installed targets, choose "Deploy on a new VM." If you already have any installed or previously configured CI/CD targets/VMs, choose "Deploy on an existing VM," and then choose the existing target from

the targets dropdown.

Follow the steps below only if you select "**Deploy on a new VM**," otherwise click the next button to proceed.

CI/CD Pipelines by Elestio are available with our 5 cloud partners (AWS Lightsail, Digital Ocean, Vultr, Linode & Hetzner) in 85 locations over 27 countries but also on any cloud (AWS, Azure, Google, Oracle, ...) and on-premise with [BYOVM](#).

- Select Service Cloud Provider



- Select Service Cloud Region

Europe North America

fsn1

 Germany - Falkenstein

hel1

 Finlande - Helsinki

nbg1

 Germany - Nuremberg

- Select Service Plan

SMALL-1C-2G

 1 CPU  2 GB RAM  20 GB Storage  20 TB Bandwidth included

SMALL-2C-2G

 2 CPU  2 GB RAM  40 GB Storage  20 TB Bandwidth included

MEDIUM-2C-4G

 2 CPU  4 GB RAM  40 GB Storage  20 TB Bandwidth included

MEDIUM-3C-4G

 3 CPU  4 GB RAM  80 GB Storage  20 TB Bandwidth included

- Now Customize the target name and project (where the CICD Target will be created).

5. Provide a name for your new CICD Target instance



The CICD Target name cannot be changed afterwards. This is the name of the instance that will contain one or more pipelines.

Name*

cicd-xttin

6. Select the target project where the CICD Target will be created

elestio-services



“ If you want to deploy it with a different name and a different project, you can customize it. By default, we configure it with a dynamic target name and the current project.

Step 5:

Configure your Project docker image and other details.

1. Docker compose

 docker-compose.yaml

1

☐ Use a private Docker Registry

Here, you can enter the information for your Docker image, and if your registry is private, you can configure registry credentials by checking the appropriate box ***Use a private Docker registry.***

docker-compose.yml

```
1 version: '3'
2 services:
3   redis:
4     image: redis:${SOFTWARE_VERSION_TAG}
5     command: redis-server --save 10 1 --loglevel warning --requirepass ${SOFTWARE_PASSWORD}
6     shm_size: '1g'
7     env_file:
8       - .env
9     volumes:
10      - ./data:/data
11     restart: always
12     ports:
13       - "172.17.0.1:6379:6379"
14
15   redisinsight:
16     image: redislabs/redisinsight:1.12.0
17     restart: always
18     user: 0:0
19     ports:
20       - '172.17.0.1:8001:8001'
21     volumes:
22       - ./insight:/db
```

Similar to these, you can configure your docker image. I create the configuration for the Redis app docker image.

Environment variables



Use Environment variables to store configuration values. API keys and secrets. You can access them in your service like regular environment variables.

.env

```
1 SOFTWARE_VERSION_TAG=latest
2 SOFTWARE_PASSWORD=eSST0hiu-tKFh-mh1GW4DA
3 REDIS_INTERNAL_PORT=6379
4 INSIGHT_INTERNAL_IP=172.17.0.1
5 INSIGHT_INTERNAL_PORT=8001
6
```

You can list all of your project's API keys and secrets here if they were saved in ENV

Reverse proxy configuration



Configure the ports which should be exposed. When the ports are not exposed publicly, they are only accessible to other Services of the same App via the internal network.

Listen			Target			
Protocol	Port		Protocol	IP	Port	Path
HTTPS	443	→	HTTP	172.17.0.1	8001	/
☒ Require Basic Auth			Login root		Password dJp2X0V6-zgOZ-wKmupwHE	
TCP	26379	→	TCP	172.17.0.1	6379	/
+ Add Another						

The final step is to configure the reverse proxy settings. You can specify the port on which your project will run here.

Provide Pipeline Name



The pipeline name cannot be changed afterwards.

Name*

custom-docker-redis

Your pipeline name will be filled in automatically by Elestio, but you are free to use another name for it in this context.

Step 6:

Click the **Create CI/CD pipeline** button to deploy your pipeline.



Provider

Hetzner Cloud

Region

Europe, Germany
Falkenstein

Estimated Monthly Price*

\$10

*Estimated monthly price is based on
730 hours of usage.

Create CI/CD pipeline

In a couple of moments, your application was successfully deployed on elestio ☑.

Please let us know by contacting our support [email](#) or [ticketing](#) system if you give it a shot and encounter any problems or if anything goes wrong.

Join us on [discord](#) to know more.

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