

#### **Deploy Onyx**

# **Deploy on GCP**

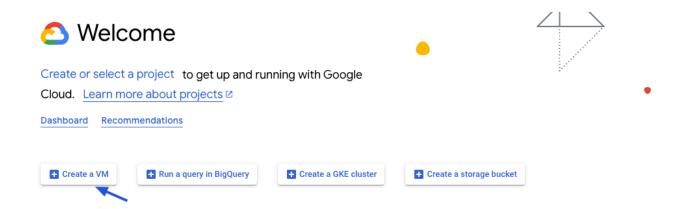
Setup Onyx on GCP

You can use GCP Google Compute Engines (VM Instance) to deploy Onyx. The steps are very similar to deploying on AWS EC2. Before we get started, make sure you have an account with Google Cloud Platform and have the necessary permissions to create a VM instance. Feel free to reach out to us via the links on our **Contact Us** page for more individual help.

#### **Getting an Instance**

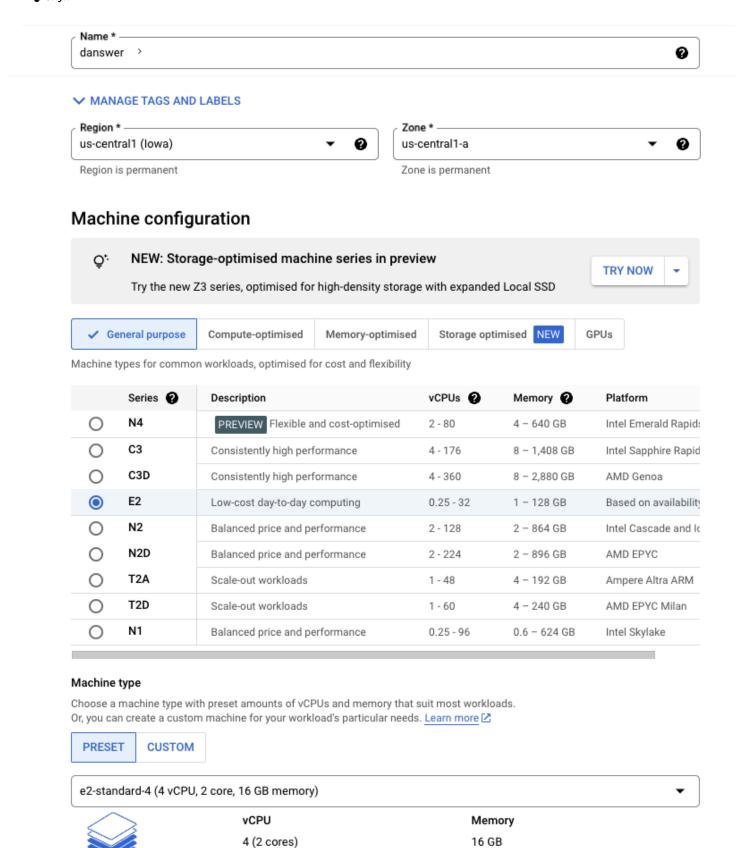
Steps to create a VM instance from Google Cloud Console:

1. Go to the Google Cloud Console Dashboard to create a VM Instance

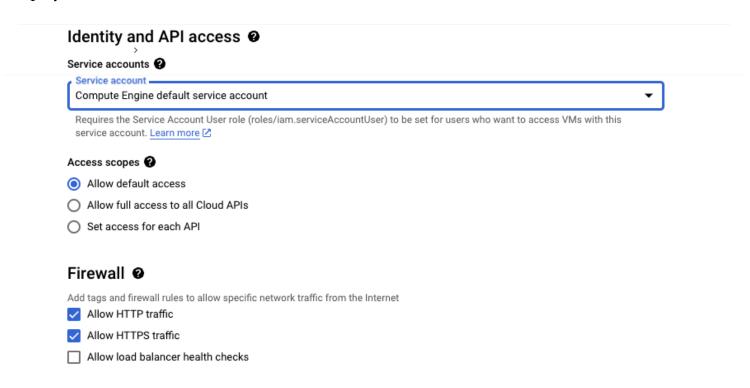


- 2. Select an existing project or create a new one under your organization.
- 3. We recommend at least 16GB of RAM, 4-8vCPU cores, and 500GB of disk. The exact instance type to choose depends on your document volume and query load, but a e2-standard-4 / e2-standard-
  - 8 is a good starting point. For more details on GCP instances, you can refer to the GCP

documentation. For more information on sizing, refer to our resourcing guide. ◆ onyx



4. Make sure to allow HTTPS traffic in the firewall settings and valid scopes for the instance. ♣ onyx



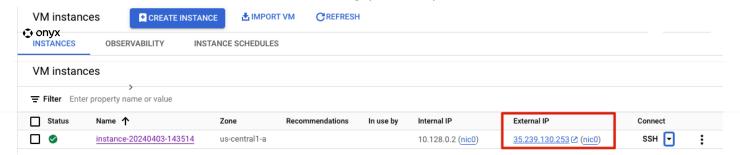
For the below guide, we will assume that you've chosen to use GCP Debian GNU/Linux machine with the recommended e2-standard-4 instance. For more details, you can follow the steps in the GCP documentation to create a VM instance.

### Pointing your Domain to the Instance

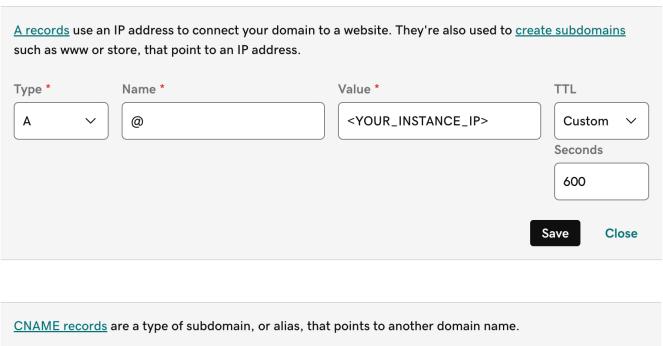
Next, we should point your domain to the VM instance we just created. To do this, we need to go to your DNS and add two records. For this guide, I'll be assuming your DNS provider is GoDaddy, but it should be almost exactly the same for any DNS provider.

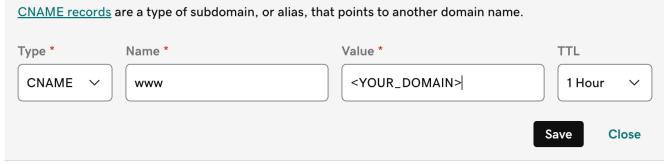
③ If you don't have a domain to use yet, then you can either buy one from a DNS provider like <u>GoDaddy</u> or just skip HTTPS for now.

First, we need to grab the External IP address of the instance. You can get that from the VM Instance list page on GCP Console.



Finally, we need to head to the DNS provider and add two entries into the DNS:





The first record directs traffic to that domain to your GCP VM instance. The second record will handle www.<YOUR\_DOMAIN> and ensure that this also takes the user to your VM instance.

#### **Installing Dependencies**

Next, we need to prepare the instance so we can actually get Onyx up and running. To do this, you'll need three things: git , docker , and docker compose . For Debian Linux 12, this can be done with the following:

```
sudo apt install -y ca-certificates curl gnupg

sudo install -m 0755 -d /etc/apt/keyrings

curl -fsSL https://download.docker.com/linux/debian/gpg | sudo gpg --dearmor -o /etc/apt/key

sudo chmod a+r /etc/apt/keyrings/docker.gpg

echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https:/

sudo apt update

sudo apt install -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compos
```

If using CentOS, Red Hat Linux, or similar, you can use the following:

```
sudo yum update -y

sudo yum install docker -y
sudo service docker start

sudo curl -L https://github.com/docker/compose/releases/latest/download/docker-compose-$(una sudo chmod +x /usr/local/bin/docker-compose

sudo yum install git
```

## **Starting up Onyx**

Now that we have everything we need we can startup Onyx.

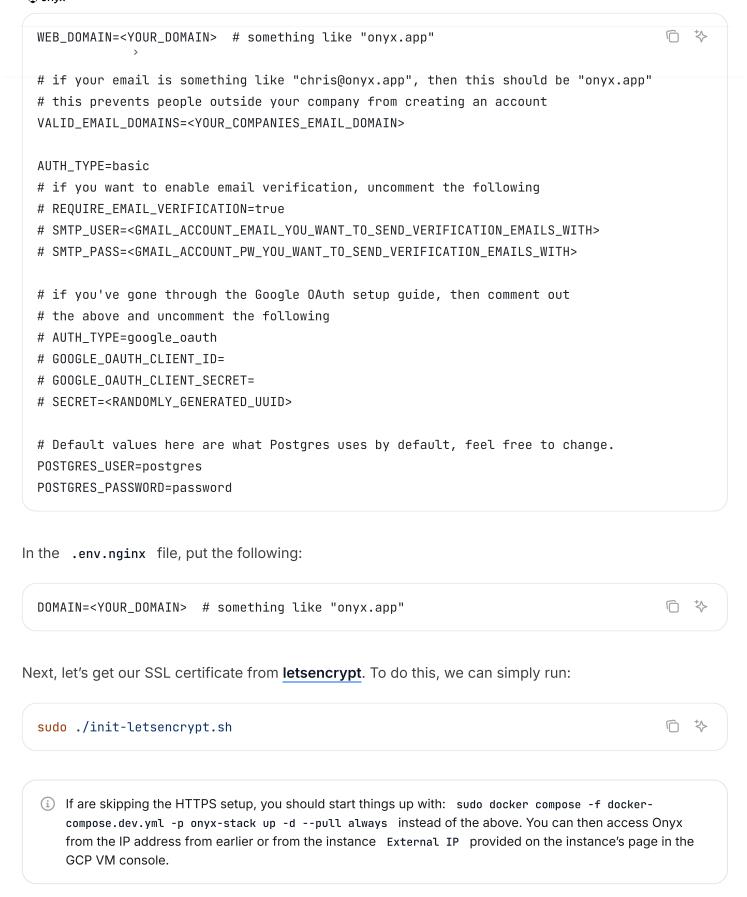
First, let's clone the repo:

```
git clone https://github.com/onyx-dot-app/onyx.git
```

Next, let's set the necessary env variables:

```
cd onyx/deployment/docker_compose
touch .env
touch .env.nginx
```

In the .env file, you can copy past the following (filling in the missing fields as needed):



Voila, you're all done! 🎉

After waiting a few minutes (you can monitor the progress with	sudo docker logs	onyx-stack-
<pre>♣onyx api_server-1 -f; once you see a log for INFO: Application</pre>	startup complete.	then everytning
should be good to go).		

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