Yellowfin for Google Cloud Platform

Yellowfin for GCP

Like most environments, Google Cloud Platform (GCP) can be set up to run according to your needs. Yellowfin can run directly on a Google Compute Engine virtual machine (VM), or using a containerized approach.

In this section, we'll explain how to set up Yellowfin to run on a VM. If your GCP runs with containers, please take a look at our Install in a Container section for specific details. The information below may also be of use.

Deploy a single instance of Yellowfin on GCP

To install and run Yellowfin on a Google Compute Engine virtual machine, you'll need to:

- set up a Google Compute Engine virtual machine and connect to it;
- install any additional components (such as databases and Java);
- install Yellowfin;
- create a machine image; and,
- deploy Yellowfin.

Set up a Google Compute Engine virtual machine

When you set up a virtual machine on the Google Compute Engine, you'll be prompted to configure some mandatory items. Your configuration is entirely dependent on your environment. For example, a five-user instance of Yellowfin running a daily report is not going to need the same configuration as a Yellowfin cluster with 10,000 users. We've provided basic information in the table below to help you choose the best configuration on these mandatory items. Google provides additional information from the configuration page.

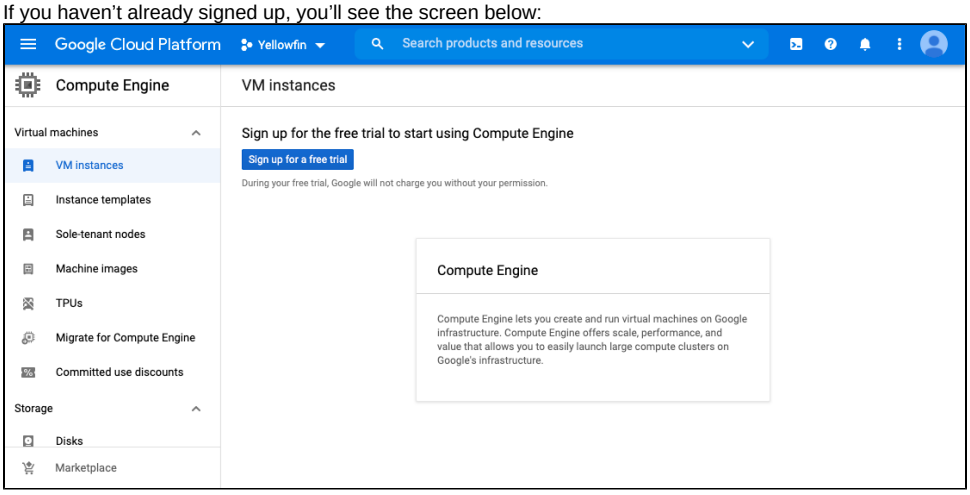
Option	Description	Recommendation
Name	Your virtual machine name. This cannot be changed, so choose wisely.	-
Region and Zone	Pick the region and a zone closest to your point of service. This helps to reduce latency.	Region closest to your point of service.
Machine configuration	Google provides clear information for each machine configuration. Yellowfin can run on as little as 4GB of memory, but you may wish to optimize your configuration based on your expected usage of Yellowfin.	Minimum 4GB on a general purpose machine.
Container	We highly recommend not running a container directly from your VM. It's likely to be slower and less cost effective. If you wish to run Yellowfin as a container, we recommend you install a container platform, such as Kubernetes.	Keep this checkbox unchecked.
Boot disk	Yellowfin runs on all major systems including Linux (various flavors), Windows and MacOS, so your choice here is not limited.	Choose your favorite. Check our Estimating Capacity Requirements page for disk size and further information.
Identity and API access	Use this to set any specific permissions for your VM. You don't need to alter these permissions to run Yellowfin securely.	Use the defaults.
Firewall	Yellowfin communicates over HTTP and HTTPS. If you choose to enable HTTPS, remember to configure Yellowfin to use SSL.	Check at least one of these options, depending on your security requirements.

We've created the steps below to get you started with creating a virtual machine (VM). These steps are for third-party software and are provided as a general guide. As they may become out of date, you may prefer to visit Google's quick-start guide instead — https://cloud.google.com/compute/docs/instances/create-start-instance.

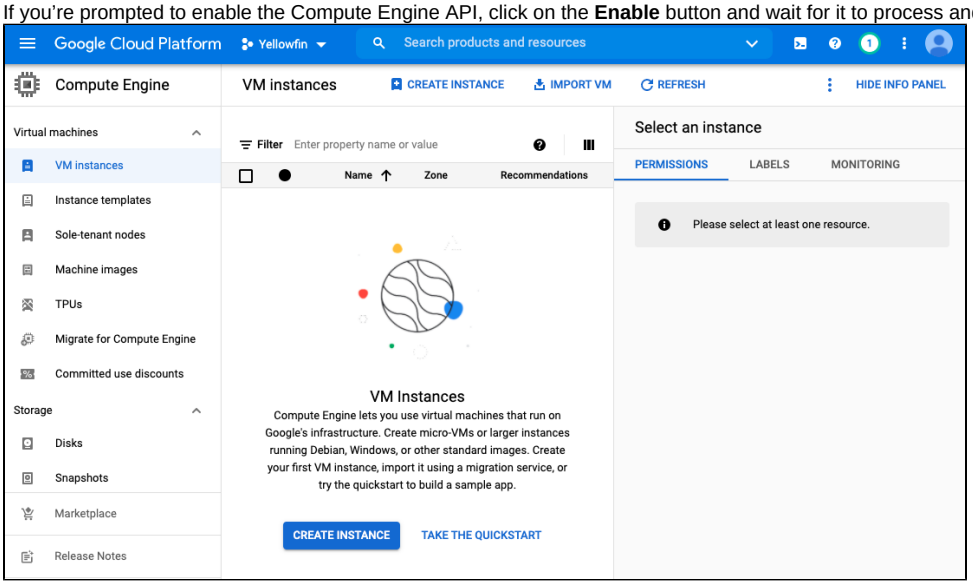
If you need further information on Yellowfin capacity requirements, please visit our Estimating Capacity Requirements page.

Steps

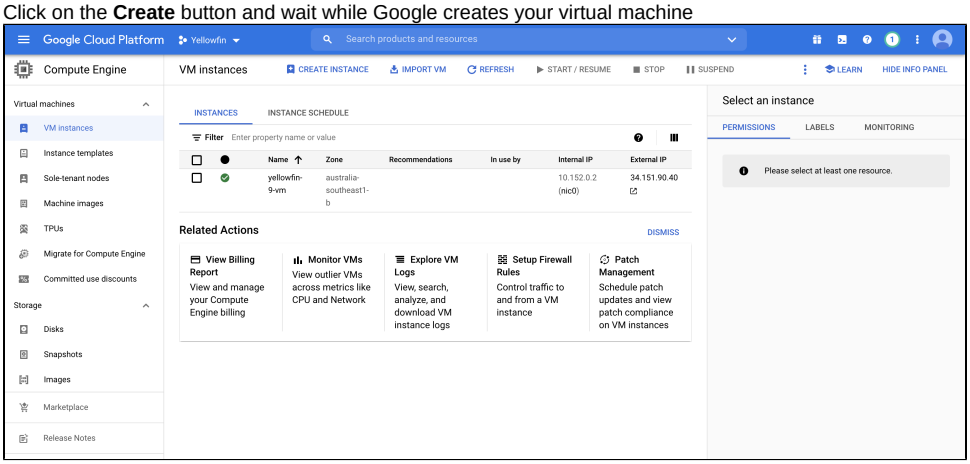
1. Sign in to the Google Cloud Platform Console at https://console.cloud.google.com
2. If one doesn't exist, create a new project (follow Google's instructions if you need help — https://cloud.google.com/resource-manager/docs/creating-managing-projects)
3. In the left navigation pane, click on **Compute Engine**, then **VM Instances**
   If you haven't already signed up, you'll see the screen below:



4. Click on the **Sign up for a few trial** button and follow the verification steps, or if you've already signed up, jump to step 6
5. If you're prompted to enable the Compute Engine API, click on the **Enable** button and wait for it to process and return to the VM instances window



6. Click on the **Create Instance** button
7. Use the table of information provided earlier in this section to choose the configuration options that best suit your environment
8. Click on the **Create** button and wait while Google creates your virtual machine



9. Click on the appropriate link below for further steps on how to connect to your VM:
   Connect to Linux VMs: https://cloud.google.com/compute/docs/instances/ssh
   Connect to Windows VMs: https://cloud.google.com/compute/docs/instances/connecting-to-windows

Install Yellowfin and supporting tools

Installing Yellowfin on a virtual machine on the Google Compute Engine requires the same set of steps as installing it on an on-premises server. These steps are:

1. Ensure a suitable database is installed
2. Ensure Java Runtime Environment (including Java FX) is installed
3. Ensure you request a license file (trial licenses are available)
4. Download and install Yellowfin

These four steps are outlined in full detail on the following two pages:

- Pre-installation (steps 1, 2 and 3): Install And Deploy Yellowfin
- Installation (step 4): https://wiki.yellowfinbi.com/display/yfcurrent/Installation+Steps

Place the .jar or .exe installation file in the folder where you'd like to install Yellowfin (see the Google documentation for transferring files to instances for further information).

These steps on this wiki cover a typical Yellowfin installation using PostgreSQL as its database within the same VM as your Yellowfin instance. Yellowfin connects to many other databases (listed on the Install And Deploy Yellowfin wiki page). If you would prefer to use a different database from the list, use the general installation steps and amend the database steps to suit your own database setup. If you need further help, get in touch with our support team.

Deploy a Yellowfin cluster to GCP

Yellowfin can be set up as a cluster within the Google Cloud Platform. Yellowfin can also be deployed from containers, so please take a look at our Install in a Container section for some example environments, complete with step-by-step instructions.

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