

# GCP Fundamentals: Getting Started with Cloud Marketplace

25 minutesFree★★★★★Rate Lab

## Overview

In this lab, you use Cloud Marketplace to quickly and easily deploy a LAMP stack on a Compute Engine instance. The Bitnami LAMP Stack provides a complete web development environment for Linux that can be launched in one click.

Component	Role
Linux	Operating system
Apache HTTP Server	Web server
MySQL	Relational database
PHP	Web application framework
phpMyAdmin	PHP administration tool

For more information on the Bitnami LAMP stack, see <https://docs.bitnami.com/google/infrastructure/lamp/>

## Objectives

In this lab, you learn how to perform the following task:

- Launch a solution using Cloud Marketplace.

## Task 1: Sign in to the Google Cloud Platform (GCP) Console

### What you'll need

To complete this lab, you'll need:

- Access to a standard internet browser (Chrome browser recommended).
- Time. Note the lab's **Completion** time in Qwiklabs. This is an estimate of the time it should take to complete all steps. Plan your schedule so you have time to complete the lab. Once you start the lab, you will not be able to pause and return later (you begin at step 1 every time you start a lab).
- The lab's **Access** time is how long your lab resources will be available. If you finish your lab with access time still available, you will be able to explore the Google Cloud Platform or work on any section of the lab that was marked "if you have time". Once the Access time runs out, your lab will end and all resources will terminate.
- You **DO NOT** need a Google Cloud Platform account or project. An account, project and associated resources are provided to you as part of this lab.
- If you already have your own GCP account, make sure you do not use it for this lab.
- If your lab prompts you to log into the console, **use only the student account provided to you by the lab**. This prevents you from incurring charges for lab activities in your personal GCP account.

### Start your lab

When you are ready, click **Start Lab**. You can track your lab's progress with the status bar at the top of your screen.

**Important** What is happening during this time? Your lab is spinning up GCP resources for you behind the scenes, including an account, a project, resources within the project, and permission for you to control the resources needed to run the lab. This means that instead of spending time manually setting up a project and building resources from scratch as part of your lab, you can begin learning more quickly.

### Find Your Lab's GCP Username and Password

To access the resources and console for this lab, locate the Connection Details panel in Qwiklabs. Here you will find the account ID and password for the account you will use to log in to the Google Cloud Platform:

CONNECTION DETAILS

OPEN GOOGLE CONSOLE

USERNAME

google822-student@qwiklabs.net

PASSWORD

TZjR4X7B6

## Task 2: Use Cloud Marketplace to deploy a LAMP stack

- In the GCP Console, on the **Navigation menu** (☰), click **Marketplace**.

- In the search bar, type **LAMP**.
- In the search results, click **LAMP Certified by Bitnami**.

If you choose another LAMP stack, such as the Google Click to Deploy offering, the lab instructions will not work as expected.

- On the LAMP page, click **Launch on Compute Engine**.

If this is your first time using Compute Engine, the Compute Engine API must be initialized before you can continue.

- For **Zone**, select the deployment zone that Qwiklabs assigned to you.
- Leave the remaining settings as their defaults.
- If you are prompted to accept the GCP Marketplace Terms of Service, do so.
- Click **Deploy**.

- If a **Welcome to Deployment Manager** message appears, click **Close** to dismiss it.

The status of the deployment appears in the console window: **lampstack-1 is being deployed**. When the deployment of the infrastructure is complete, the status changes to **lampstack-1 has been deployed**.

After the software is installed, a summary of the details for the instance, including the site address, is displayed.

Click *Check my progress* to verify the objective.

Use Cloud Marketplace to deploy a LAMP stack

Check my progress

## Task 3: Verify your deployment

- When the deployment is complete, click the **Site address** link in the right pane.

Alternatively, you can click **Visit the site** in the **Get started with LAMP Certified by Bitnami** section of the page. A new browser tab displays a congratulations message. This page confirms that, as part of the LAMP stack, the Apache HTTP Server is running.

- Close the congratulations browser tab.
- On the GCP Console, under **Get started with LAMP Certified by Bitnami**, click **SSH**.

In a new window, a secure login shell session on your virtual machine appears.

- In the just-created SSH window, to change the current working directory to `/opt/bitnami`, execute the following command:

```
cd /opt/bitnami
```

- To copy the `phpinfo.php` script from the installation directory to a publicly accessible location under the web server document root, execute the following command:

```
sudo cp docs/phpinfo.php apache2/htdocs
```

The `phpinfo.php` script displays your PHP configuration. It is often used to verify a new PHP installation.

- To close the SSH window, execute the following command:

```
exit
```

- Open a new browser tab.

- Type the following URL, and replace `SITE_ADDRESS` with the URL in the **Site address** field in the right pane of the **lampstack** page.

```
http://SITE_ADDRESS/phpinfo.php
```

A summary of the PHP configuration of your server is displayed.

- Close the `phpinfo` tab.

## Congratulations!

In this lab, you deployed a LAMP stack to a Compute Engine instance.

## End your lab

When you have completed your lab, click **End Lab**. Qwiklabs removes the resources you've used and cleans the account for you.

You will be given an opportunity to rate the lab experience. Select the applicable number of stars, type a comment, and then click **Submit**.

The number of stars indicates the following:

- 1 star = Very dissatisfied
- 2 stars = Dissatisfied
- 3 stars = Neutral
- 4 stars = Satisfied
- 5 stars = Very satisfied

You can close the dialog box if you don't want to provide feedback.

For feedback, suggestions, or corrections, please use the **Support** tab.

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Lab Last Tested: April 01, 2019  
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## More resources

Read the [Google Cloud Platform documentation on Cloud Marketplace](#).



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Task 2: Use Cloud Marketplace to deploy a LAMP stack

Task 3: Verify your deployment

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