

Aim:

To Explore the Hand-on-lab features provided by Qwiklabs online cloud lab learning environment.

Concept:

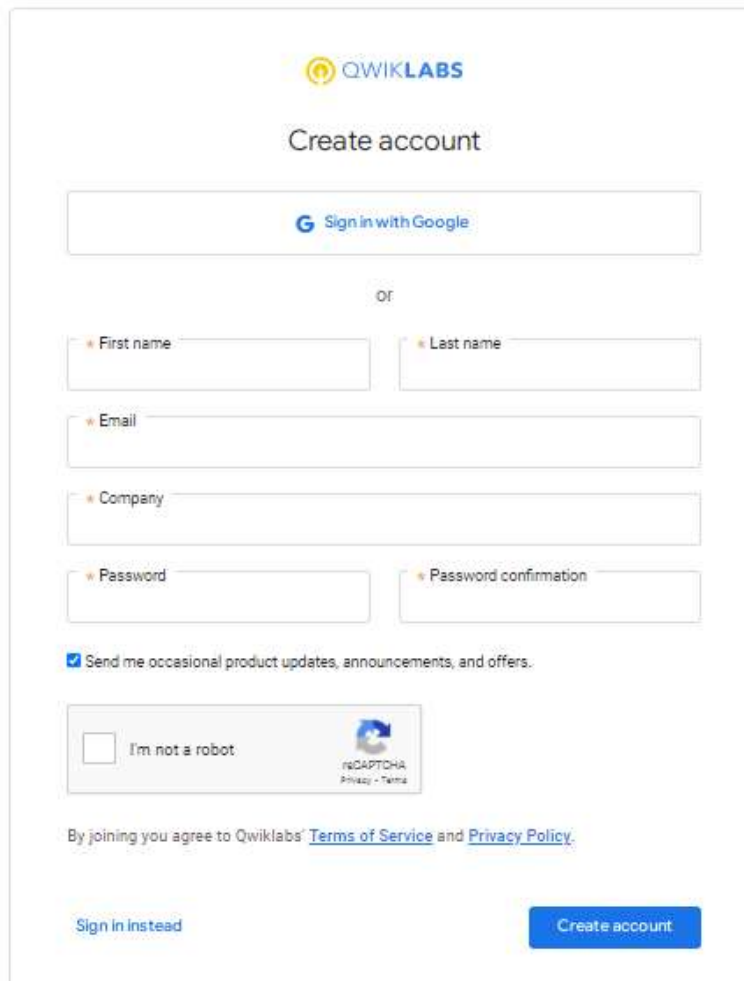
Qwiklabs provides lab learning environments that help developers and IT professionals get hands-on experience working with leading cloud platforms and software. A hands-on lab, also referred to as a “lab”, is a learning experience in Qwiklabs where we complete a scenario based use case by following a set of instructions in a specified amount of time in an interactive hands-on environment. Labs are completed in the real GCP console, as opposed to a simulation or demo environment.

Process/Procedure :

1. Go to <https://www.qwiklabs.com/>
2. Create a new Qwiklabs account and Login
3. After LOGIN Explore the Following Features of Qwiklabs Online Cloud Lab Learning Environment
4. Google Cloud Essentials –begin
 - A Tour of Google Cloud Hands-on Labs
 - Creating a Virtual Machine
 - Compute Engine: Qwik Start - Windows
 - Getting Started with Cloud Shell and gcloud
 - Kubernetes Engine: Qwik Start
 - Set Up Network and HTTP Load Balancers

Experiment

Step 1: Create a new Qwiklabs account and Login



The image shows the Qwiklabs 'Create account' form. At the top is the Qwiklabs logo. Below it is the title 'Create account'. There is a 'Sign in with Google' button. Below that is an 'or' separator. The form contains several input fields: 'First name', 'Last name', 'Email', 'Company', 'Password', and 'Password confirmation'. There is a checkbox for 'Send me occasional product updates, announcements, and offers.' and a reCAPTCHA widget with the text 'I'm not a robot'. At the bottom, there is a link to 'Sign in instead' and a blue 'Create account' button. A line of text states: 'By joining you agree to Qwiklabs' [Terms of Service](#) and [Privacy Policy](#)'.

After LOGIN Explore the Following Features of Qwiklabs Online Cloud Lab Learning Environment

Step 2: Google Cloud Essentials –begin

Featured Learning

<div>Lab</div> <div>A Tour of Google Cloud Sustainability</div> <div>Begin</div>	<div>Quest</div> <div>Google Cloud Essentials</div> <div>Begin</div>	<div>Quest</div> <div>Secure and Rate Limit API calls with API Gateway</div> <div>Begin</div>	<div>Lab</div> <div>Leverage the Autoscaler Tool for Cloud Spanner to Achieve Workload</div> <div>Begin</div>
<div>Quest</div> <div>Sports Analytics: Pitch Perfect BigQuery</div> <div></div>	<div>Lab</div> <div>Memorystore: Qwik Start</div> <div></div>	<div>Quest</div> <div>Google Workspace for Education</div> <div></div>	<div>Quest</div> <div>Measure Site Reliability using Cloud Operations Suite</div> <div></div>

1. A Tour of Google Cloud Hands-on Labs
2. Creating a Virtual Machine
3. Compute Engine: Qwik Start - Windows
4. Getting Started with Cloud Shell and gcloud

5. Kubernetes Engine: Qwik Start
6. Set Up Network and HTTP Load Balancers

Lab
A Tour of Google Cloud Hands-on Labs
In this first hands-on lab you will access the Google Cloud Platform Console and use these basic Google Cloud features: Projects, Resources, IAM Users, Roles, Permissions, and APIs.
★★★★★ 30 minutes Introductory Free

Lab
Creating a Virtual Machine
In this hands-on lab, you'll learn how to create a Google Compute Engine virtual machine and understand zones, regions, and machine types. To preview, watch the short video [Create a Virtual Machine, GCP Essentials](#).
★★★★★ 40 minutes Introductory 1 Credit

OR

Lab
Compute Engine: Qwik Start - Windows
Google Compute Engine lets you create and run virtual machines on Google infrastructure. In this lab you create a Windows Server instance in the Google Compute Engine and access it with RDP. Watch a short preview, [Launch a Windows Server Instance, GCP Essentials](#).
★★★★★ 40 minutes Introductory 1 Credit

Lab
Getting Started with Cloud Shell and gcloud
In this hands-on lab you will learn how to connect to computing resources hosted on Google Cloud Platform via the web. You will also learn how to use Cloud Shell and the Cloud SDK gcloud command. For a preview, watch the short video [Get Started with Cloud Shell, GCP Essentials](#).
★★★★★ 45 minutes Introductory 1 Credit

Lab
Kubernetes Engine: Qwik Start
Google Kubernetes Engine provides a managed environment for deploying, managing, and scaling your containerized applications using Google infrastructure. This hands-on lab shows you how deploy a containerized application with Kubernetes Engine. Watch the short video [Manage Containerized Apps with Kubernetes Engine](#).
★★★★★ 30 minutes Introductory 1 Credit

Lab
Set Up Network and HTTP Load Balancers
In this hands-on lab, you'll learn how setup both network load balancers and HTTP load balancers for your application running in Compute Engine virtual machines.
★★★★★ 1 hour Introductory 1 Credit

Result:

Using the Above steps services offered by Qwiklabs online cloud lab learning environment are explored.