

Grow your cloud knowledge

Bootcamps

Dates: Monday, July 23 | Friday, July 27

Price: \$495 Full Day | \$249 Half Day

Build your practical skills and theoretical knowledge at in-person training courses that cover intermediate to advanced Google Cloud technical topics. Premiering at Google Cloud Next '18, bootcamps include both lectures and hands-on labs – see it all here first.

The curriculum is developed and taught by expert Googlers who have amassed best practices and learnings from real-world Google Cloud customer deployments.

Sign up as part of Next '18 registration and get 20% off each bootcamp.

Bootcamp courses:

1. [Marketing Insights on GCP: From Data Ingestion to Analysis and Visualization](#)
2. [Advanced Kubernetes](#)
3. [End-to-End Machine Learning with TensorFlow on GCP](#)
4. [Building and Updating a Machine Learning Model on Edge Network with Cloud ML](#)
5. [Building Scalable Java Microservices with Spring Boot and Spring Cloud](#)
6. [Developing and Extending Applications with G Suite Tools and Platforms](#)
7. [Designing and Automating Your GCP Infrastructure and Networking](#)
8. [Building an Image Recognition Model in R using Cloud ML Engine, RStudio, and Shiny](#)
9. [Building Services and Mobile Apps with Modern API Management](#)
10. [Building Chatbots with Machine Learning](#)
11. [Integrating SAP HANA with GCP](#)
12. [Preparing for the Professional Cloud Architect Examination](#)

Marketing Insights on GCP: From Data Ingestion to Analysis and Visualization

Presenters: Julien Phalip and Evan Jones

Monday | Friday
Full Day, 9 AM–6 PM

In this session, we'll focus on typical marketing analytics use cases, examining the common pitfalls and best practices for using Google Cloud Platform Big Data tools.

In hands-on labs, we'll use a real-world customer lead generation dataset to demonstrate each part of the data analysis lifecycle, including:

1. Ingesting data from a web form and preprocessing with Cloud Dataprep
2. Exploring and conducting preliminary analysis with Google Data Studio
3. Building analytics pipelines into Google BigQuery
4. Visualizing insights with Google Data Studio

Advanced Kubernetes

Presenter: Vic Iglesias

Monday | Friday
Full Day, 9 AM–6 PM

This session teaches Kubernetes developers and administrators how to use Google Cloud Platform tools and services to deploy and scale production-ready applications around the globe using Google Kubernetes Engine.

End-to-End Machine Learning with TensorFlow on GCP

Presenter: Lak Lakshmanan

Monday | Friday
Full Day, 9 AM–6 PM

In this interactive bootcamp, we'll go through the process of building a complete machine learning pipeline, covering ingest, exploration, training, evaluation, deployment, and prediction. Along the way, we'll discuss how to explore and split large data sets using Google BigQuery and Cloud Datalab. We'll also develop a machine learning model in TensorFlow on a small sample locally. The preprocessing operations will be implemented in Cloud Dataflow so that it can also be applied in streaming mode. The training of the model will then be distributed and scaled out on Cloud Machine Learning Engine, which will be deployed as a microservice with predictions invoked from a web application.

This is mostly a series of hands-on labs with little lecturing. You'll have a starter code for each lab in the pipeline and be expected to flesh the code out. Solutions will be provided so that if you don't finish a lab, you can still move on to the next one.

Building and Updating a Machine Learning Model on Edge Network using Cloud ML

Presenter: Thomas Cliett

Monday | Friday

Full Day, 9 AM–6 PM

In this session, we'll use a mix of lecture and hands-on labs to teach you how to process and store IoT or other data using Cloud Pub/Sub, Cloud Dataflow, Cloud Storage, and Google BigQuery. You'll be able to create a machine learning model using Cloud Machine Learning Engine and then push that model to Edge Network.

In the afternoon, we'll talk about how to process and use streaming data from Edge Network to update the model and push updates out to your edge computing.

Building Scalable Java Microservices with Spring Boot and Spring Cloud

Presenter: Ray Tsang

Monday | Friday

Full Day, 9 AM–6 PM

In this lab, you will quickly create several microservices with Spring Boot and learn best practices for tracing, configuration management, and integration with other parts of the system with integration patterns. To accomplish this, we'll use Spring Cloud Sleuth, Zipkin, Spring Cloud Config Server, and Spring Integration to build a messaging pipeline and replace manually managed backends with Google Cloud Platform managed services.

Developing and Extending Applications with G Suite Tools and Platforms

Presenter: Wesley Chun

Monday | Friday

Half Day, 1:30–6 PM

You may be familiar with Google Drive, Calendar, Sheets, and Gmail. But behind these productivity apps, there's a developer component. In this bootcamp session, you'll learn two different ways to programmatically access G Suite apps and data.

To start, developers will get a broad overview of key G Suite developer tools and platforms. Then you'll learn how to use those tools in hands-on labs, each focused on a different technology. This G Suite developer tour concludes with exposure to other G Suite APIs. With this foundation, developers will leave with enough knowledge and working code to get started on projects immediately.

Designing and Automating Your GCP Infrastructure and Networking

Presenter: Mike Truty

Monday | Friday

Full Day, 9 AM–6 PM

This is a two-part infrastructure bootcamp. You'll learn about recommended patterns and best practices for building out your public cloud networking infrastructure on GCP – from secure networking to highly available hybrid interconnects. Then you'll use best-in-class, multi-cloud tools to automate inspecting and deploying your networking, and security infrastructure as code for easy reuse and lower maintenance burden.

Building an Image Recognition Model in R using Cloud ML Engine, RStudio, and Shiny

Presenter: Mikhail Chrestkha

Friday

Full Day, 9 AM–6 PM

Are you an R user looking to leverage cloud computing? Have you read about Cloud Machine Learning Engine for TensorFlow, but feel left out due to its Python dependency? RStudio now offers the CloudML R-package to interface with Cloud ML Engine. Join Google engineers, RStudio's CEO, and Kaggle competition winners at this bootcamp to build an image-recognition model that identifies different types of clouds (the real ones up in the sky!) using the RStudio IDE and Cloud ML Engine. Then deploy it to the web via a Shiny dashboard for end users to interact with.

Building Services and Mobile Apps with Modern API Management

Presenter: Prithpal Bhogill

Friday

Full Day, 9 AM–6 PM

APIs are a core part of an organization's cloud strategy and need to be secured, managed, and monitored. In this session, we'll walk through a case study that shows how to leverage Google Kubernetes Engine, Google BigQuery, Cloud Pub/Sub, and Firebase to build services, as well as Apigee's API management platform to power a digital and mobile experience. We'll also provide an overview of the solution and review the reference architecture. Hands-on labs will give you a direct experience and understanding of the joint solution. You'll be able to walk away from this session knowing how the technologies work, how to leverage APIs, and how to build great apps.

Building Chatbots with Machine Learning

Presenter: Robert Martin

Friday

Full Day, 9 AM–6 PM

In this session, participants will use Dialogflow and Cloud Natural Language API to rapidly convert an HR manual document into a fully functional and conversational chatbot. Participants will then add text and voice interactions to the chatbot, and secure and scale it for production.

Integrating SAP HANA with GCP

Presenter: Casey West

Monday

Full Day, 9 AM–6 PM

With nearly all of SAP's products certified to run effortlessly on Google Cloud Platform, SAP and GCP have joined forces to bring enterprise-grade business operations to the cloud. At their core is SAP HANA, a highly scalable, columnar, in-memory data store.

In this bootcamp, you'll learn how to deploy and use SAP HANA on GCP, and build integrated solutions with GCP services. We'll guide you through hands-on labs that:

- Connect serverless architectures to SAP HANA with Cloud Functions and Cloud Dataflow for real-time data streaming and analysis
- Query data living between SAP HANA (live) and BigQuery (historical)
- Build and deploy applications on Google App Engine, managing data in SAP HANA
- Integrate GCP's pretrained machine learning APIs with applications managing data in SAP HANA
- Create a workflow for training TensorFlow ML models from SAP HANA with Cloud Machine Learning Engine.

Preparing for the Professional Cloud Architect Examination

Presenter: Brian Rice

Monday | Friday

Half Day, 8 AM–12:30 PM

This half-day, instructor-led bootcamp helps prospective candidates evaluate their readiness to take the Professional Cloud Architect exam and develop a preparation strategy. Through lectures, quizzes, and discussions, candidates will familiarize themselves with the domain covered in this examination.

This bootcamp teaches participants the following skills:

- Identify the skills and concepts that this certification will validate
- Understand the relationship between the Professional Cloud Architect certification and other Google Cloud certifications
- Learn how the certification is administered
- Understand the structure of the exam guide
- Devise a preparation strategy for attempting the exam