



Intro to GCP

DA_FT BERLIN | IRONHACK



Google Cloud

Understanding the Cloud

- As we saw in Week 8, Cloud computing is the delivery of IT services, such as computing power, database storage, networking, software and analytics over the Internet ("the cloud")
- Instead of buying, owning, and maintaining physical data centers and servers, companies can obtain technology services from a third-party provider

WHY GCP?

- Google Cloud Platform (GCP) is a suite of cloud computing services that run on the same infrastructure that Google uses internally for its end-user products (YouTube, Gmail, and Google Maps)
- GCP offers a broad range of globally distributed cloud computing services including computing, data storage, data analytics, machine learning, and network services.

Key GCP features

- Global Infrastructure: Extensive network of data centers worldwide for low latency and high availability.
- Advanced Data Analytics and Machine Learning: Leveraging Google's expertise in these areas, GCP offers powerful tools like BigQuery and TensorFlow.
- Openness and Interoperability: Works seamlessly with other cloud platforms and on-premises systems.
- Strong Security and Compliance: Built-in security features and certifications to protect your data.

GCP building blocks

- Compute Engine: Create and manage custom virtual machines (VMs) to run your applications.
- **App Engine:** Develop and host scalable applications without worrying about the underlying infrastructure.
- Cloud Storage: Store and manage vast amounts of data in a durable and accessible manner.
- BigQuery: Analyze petabytes of data with speed and ease, using standard SQL.
- Cloud SQL: Host instances of popular relational databases like MySQL, PostgreSQL, and SQL Server.
- Cloud Functions: Execute serverless code in response to events, such as database changes or file uploads.

Use cases

- Web Hosting and Application Development
- Data Storage and Database Management
- Data Analytics and Big Data
- Machine Learning and Al

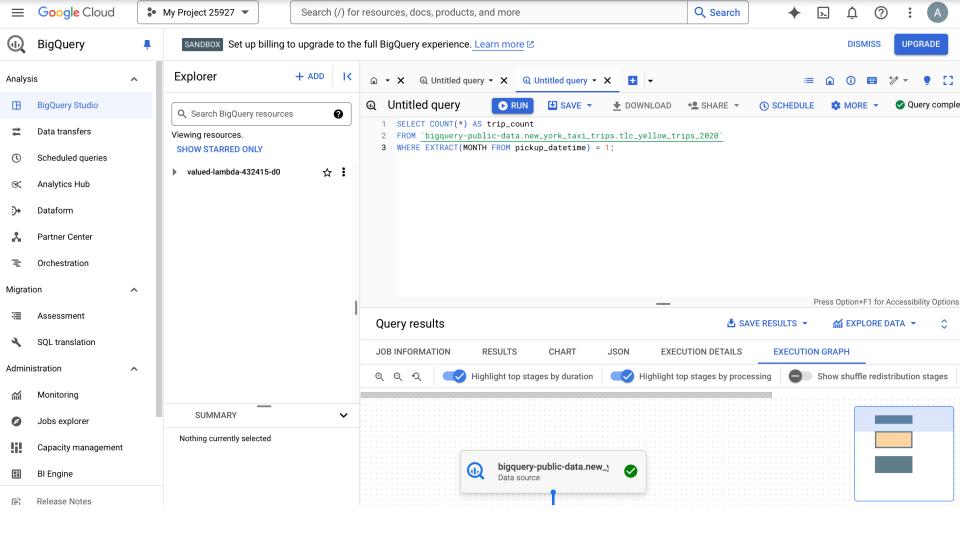


Hands on BigQuery

- To begin your GCP journey, you'll need to create a Google Cloud account.
- Go to the Google Cloud Platform at: https://cloud.google.com
- Click on "Sign In" and use your Google account (or create a new one)
- You'll be prompted to provide billing information. Don't worry, GCP offers a free tier to explore its services (about 300\$)

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Hands on BigQuery

We will now move to the Console to do some querying on public datasets!

