What is Google Cloud Run Functions? Why use it?

- Cloud Run functions is a serverless execution environment for building and connecting cloud services.
- Cloud Run functions can be used to respond to events, process data, and connect services.
- Google Cloud Run functions can help you build and manage applications by connecting cloud services, responding to events, and scaling automatically.
- You deploy functions as a service on Cloud Run, and configure the function to react to HTTP(S) requests or respond to events propagated by Eventarc-based triggers.
- Cloud Run functions can be triggered by events provided by the following services::
 - HTTP—invoke functions directly using HTTP requests
 - Cloud Storage
 - Pub/Sub
 - Firebase (DB, Storage, Analytics, Auth)
 - Cloud Logging
- Some use cases include:
 - Data processing: Process, transform, and enrich streaming data for applications like click-stream analysis, social media analysis, and IoT device telemetry
 - o Database maintenance: Perform database sanitization and maintenance
 - Notifications: Notify users when something happens
 - Third-party integrations: Integrate with third-party services and APIs
 - Web applications: Build web applications, access SQL databases, and render dynamic HTML pages
 - Database migrations: Run scripts to perform database migrations
 - o Invoice creation: Create and send invoices
 - Microservices: Connect with microservices
 - File processing: Process files in a Cloud Storage bucket
 - Workflow automation: Enhance workflow automation