**Step 1: Create a Service Account & Download Key**

1. Go to: https://console.cloud.google.com/iam-admin/serviceaccounts
2. Click **“+ CREATE SERVICE ACCOUNT”**
3. Fill in:
   * **Name**: pubsub-accessor
   * **ID**: auto-generated
   * **Description**: “Access Pub/Sub from Spring Boot”
4. Click **Create and Continue**
5. Grant the role:
   * Pub/Sub Publisher
   * Pub/Sub Subscriber
6. Click **Done**

**Step 2: Create & Download JSON Key**

1. In the service account list, find your account pubsub-accessor
2. Click **Actions (⋮)** > **Manage Keys**
3. Click **“Add Key” > “Create new key”**
4. Select **JSON** and click **Create**

This downloads a .json file to your computer. This is your private **credentials key store to /resources/credentials/key.json**.

**Step 3:** GCP Setup

gcloud pubsub topics create user-notifications

gcloud pubsub subscriptions create user-notification-sub --topic=user-notifications

**Step 4:#GCP project-ID and key in application properties**

spring.cloud.gcp.project-id=br1ghter-sun  
spring.cloud.gcp.credentials.location=classpath:credentials/br1ghter-sun-4e6253360385.json

**Step 5: add dependencies to gradlebuild:**

implementation 'org.springframework.integration:spring-integration-core'

implementation 'com.google.cloud:spring-cloud-gcp-starter-pubsub:4.9.1'