## Practical 9 Cloud Computing

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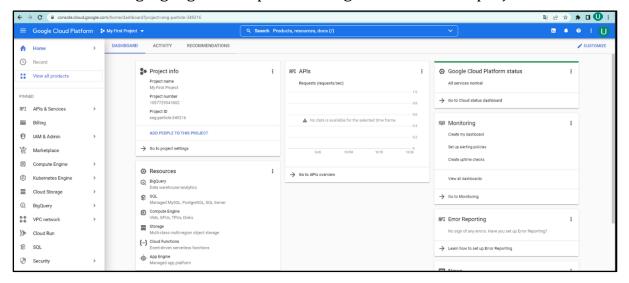
May 6, 2022



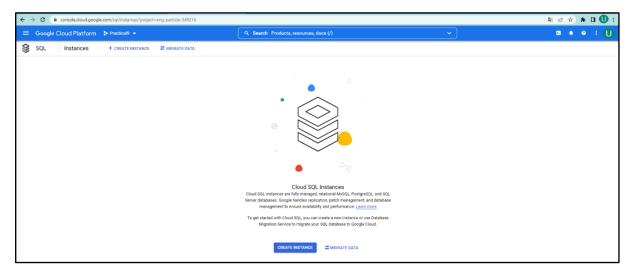
Department of Computer Science and Engineering
Institute of Technology
Nirma University
Ahmedabad

## Aim: Google Cloud Platform and SQL integration

**1.** After creating a google cloud platform engine create a new project.



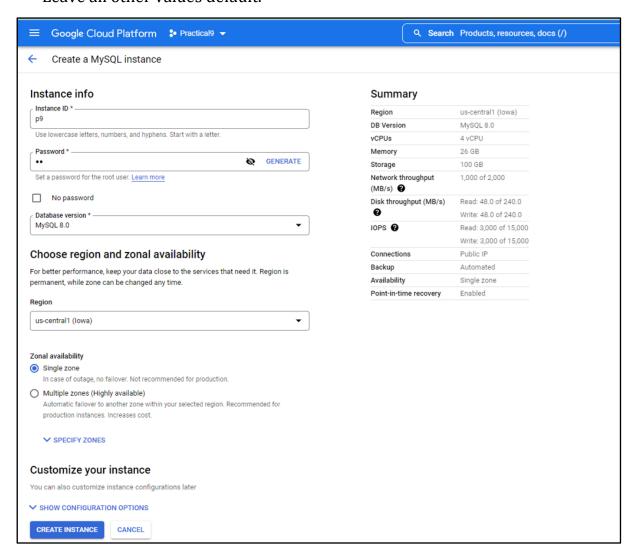
**2.** Now navigate from sql from sidebar



3. Select MySQL database engine and enable Compute Engine API



**4.** Configure MySQL instance as per requirement. Enter instance ID and password. Leave all other values default.



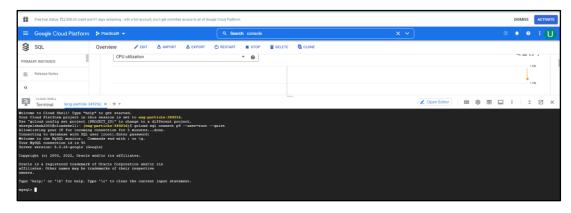
**5.** Now Instance gets created.



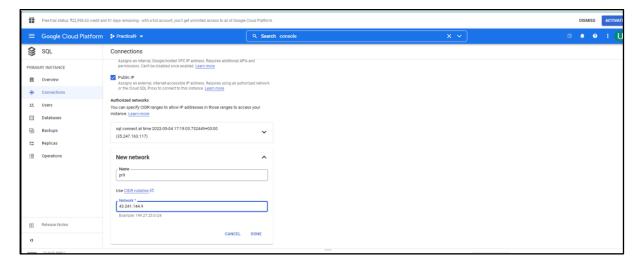
**6.** To access database and perform CRUD operations, we need to enable the API. Navigate to APIs and Services -> Enabled APIs and Services and search for "Cloud SQL Admin". Enable the API



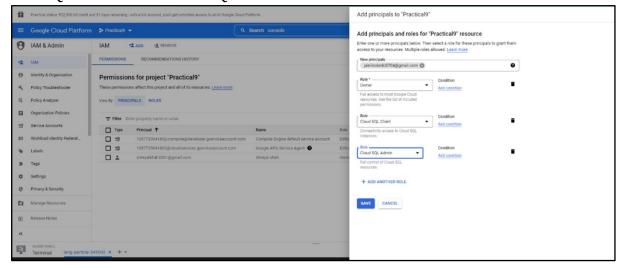
**7.** Now we can access MySQL service from the console. Go back to SQL tab and open console. Log in with the following command: cloud sql connect <instance\_name> --user=root -quiet



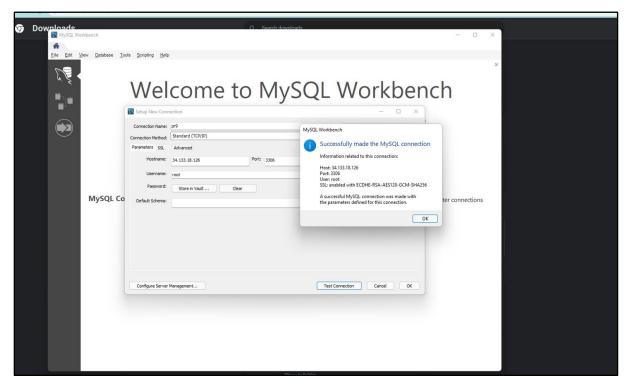
**8.** To access cloud instance from public IP, we need to add our own public IP to instance ACL. Go to SQL tab -> Connections and add a new network to authorized networks. Enter your own local IP in the prompt and click Save.

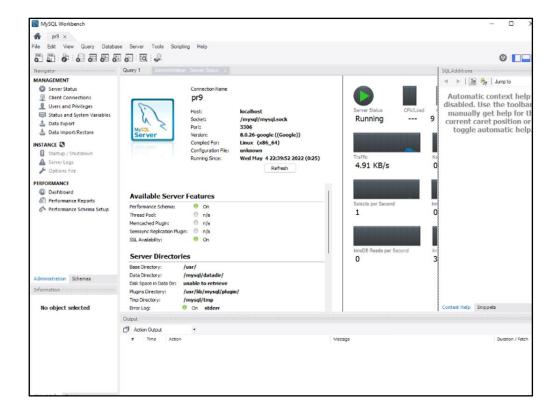


**9.** Go to IAM -> Permissions tab. Add a new principal and add 3 roles: Owner, Cloud SQL Admin and Cloud SQL client.

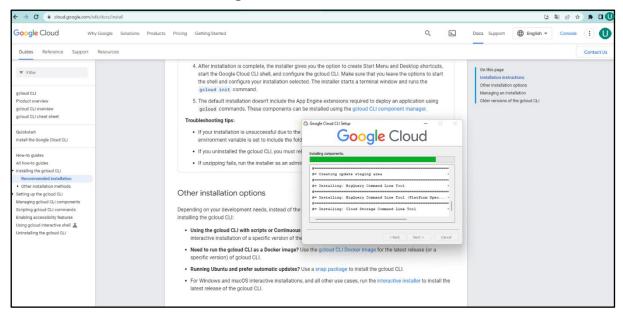


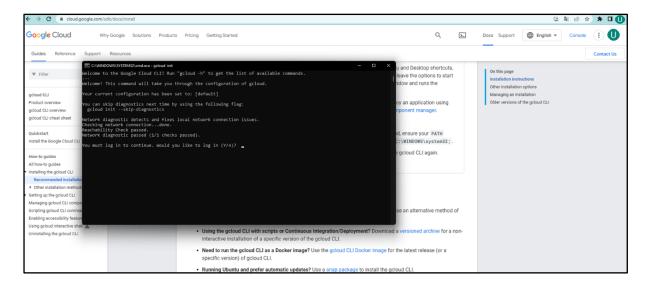
**10.** Enter the copied public IP in MySQL workbench connection prompt. Click connect and enter password when prompted.

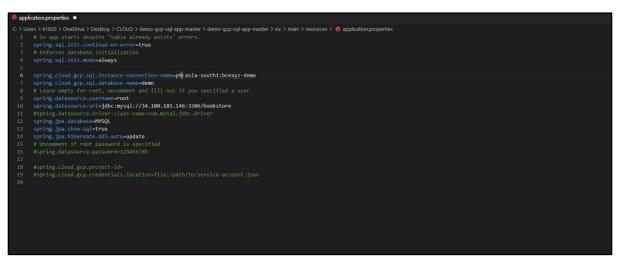


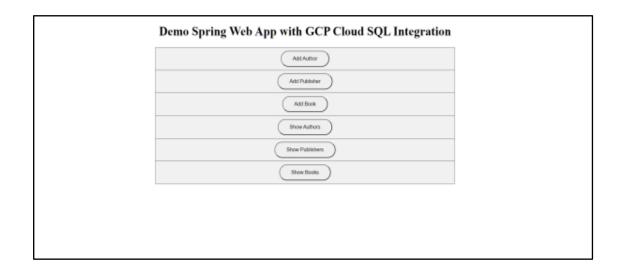


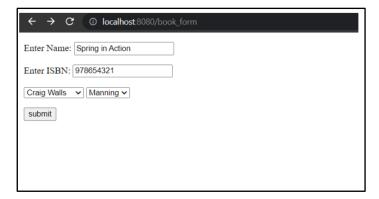
**11.** We need Cloud CLI SDK for authentication of our apps with the Google Cloud Platform. Install Google Cloud CLI SDK

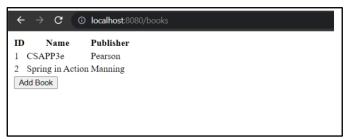












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