

Final Deployment & Testing Guide

Now that you have your `firebaseConfig` keys, follow these steps to go live.

0. Prepare Dependencies (Critical Fix)

Before building the image, you must ensure all libraries are recorded in your `package.json`.
Run this command in your local terminal:

```
npm install firebase lucide-react recharts
```

Troubleshooting "EACCES" Permission Errors: If you see a permission error when running the command above, run this fix to repair your npm cache ownership:

```
sudo chown -R $(whoami) ~/.npm
```

After running the fix, try the `npm install` command again.

Verify that these appear under `"dependencies"` in your `package.json` file. If they aren't there, the cloud build will fail.

1. Prepare Your Code

Ensure your `hiking_dashboard.jsx` file has the actual keys you copied from the Firebase Console:

```
const firebaseConfig = {  
  apiKey: "AIza...",  
  authDomain: "rvijgdrive-152618.firebaseio.com",  
  projectId: "rvijgdrive-152618",  
  // ... and so on  
};
```

2. Deploy to Cloud Run

Step 1: Build the Image in the Cloud

Run this command from your project folder to build your container:

```
gcloud builds submit --tag gcr.io/rvijgdrive-152618/hiking-dashboard
```

Step 2: Deploy to Cloud Run

Deploy the service. We use `--allow-unauthenticated` so the browser can load the login page.

```
gcloud run deploy hiking-dashboard \
  --image gcr.io/rvijgdrive-152618/hiking-dashboard \
  --platform managed \
  --region us-central1 \
  --allow-unauthenticated
```

*When finished, copy the **Service URL** provided in the terminal.*

3. Final Google Auth Configuration

For the "Sign in" button to work on the live URL, you must tell Google that your new Cloud Run URL is a "trusted" source.

1. Go to the [GCP Credentials Console](#).
2. Find the **OAuth 2.0 Client IDs** section and click on the **Web client** created by Firebase.
3. Add your Service URL to **Authorized JavaScript origins**.
 - Example: `https://hiking-dashboard-xyz.a.run.app`
4. Add your Service URL + `/__/auth/handler` to **Authorized redirect URIs**.
 - Example: `https://hiking-dashboard-xyz.a.run.app/__/auth/handler`
5. Click **Save**.

4. How to Test

1. **Open the Service URL:** You should see the dark "Challenger Dashboard" login screen.
2. **Login with an Unlisted Email:** Use an email that isn't yours or `mv11015@husd.k12.ca.us`. You should see the red **Access Denied** screen.
3. **Login as Authorized User:** Sign in with your account or have your user sign in. The dashboard should load the data from Google Sheets immediately.

Troubleshooting

- **Vite Rollup Error (firebase/app):** This means you skipped Step 0. Run `npm install firebase` locally and then run `gcloud builds submit` again.

- **Sign-in Popup closes immediately:** This is usually caused by missing "Authorized Domains" in the Firebase Console (Auth > Settings) or the GCP Credentials page (Origins).
- **403 Forbidden:** Ensure you used `--allow-unauthenticated` during the `gcloud run deploy` step.