If you are running on Google Cloud infrastructure, then you don't need to set the ProjectID field to your Google Cloud project ID because the client library for Go automatically gathers this data from a Google Cloud metadata server.

If you aren't running on Google Cloud infrastructure, then you must set the ProjectID field to your Google Cloud project ID. In the example code, an environment variable is used and the application has been modified to read this variable.

You can use Trace on Google Cloud and when your application runs outside of Google Cloud.

When your application is running on Google Cloud, your application is automatically authenticated and you don't need to provide authentication credentials. However, you do need to ensure that your Google Cloud platform has the <u>Stackdriver Trace API access scope</u>

(https://developers.google.com/identity/protocols/googlescopes#cloudtracev2) enabled.

For the following configurations, the default settings for the access scopes have the Stackdriver Trace API enabled:

- App Engine flexible environment
- · App Engine standard environment
- Google Kubernetes Engine
- Compute Engine

If you use custom access scopes, then you must ensure that Stackdriver Trace API access scope (https://developers.google.com/identity/protocols/googlescopes/foloudtracev2) enabled. For gcloud users, specify access scopes using thescopes flag and include the trace.append Stackdriver Trace API access scope. For example, to create a GKE cluster with only the Stackdriver Trace API enabled, do the following: When your application is running outside of Google Cloud, you must provide authentication credentials in the form of a service account to the client library. The service account must contain the Cloud Trace agent role (/trace/docs/iam#roles). For instructions, see Creating a service account (/iam/docs/creating-managing-service-accounts). Google Cloud client libraries use Application default credentials (ADC) (/docs/authentication/production) to find your application's credentials. You provide these credentials by setting the GOOGLE_APPLICATION_CREDENTIALS environment variable:	
credentials in the form of a service account to the client library. The service account must contain the Cloud Trace agent role (/trace/docs/iam#roles). For instructions, see Creating a service account (/iam/docs/creating-managing-service-accounts). Google Cloud client libraries use Application default credentials (ADC) (/docs/authentication/production) to find your application's credentials. You provide these credentials by setting the	(https://developers.google.com/identity/protocols/googlescopes#cloudtracev2) enabled. For gcloud users, specify access scopes using thescopes flag and include the trace.append Stackdriver Trace API access scope. For example, to create a GKE cluster with only the Stackdriver Trace API enabled, do
to find your application's credentials. You provide these credentials by setting the	credentials in the form of a service account to the client library. The service account must contain the Cloud Trace agent role (/trace/docs/iam#roles). For instructions, see Creating a service account
	to find your application's credentials. You provide these credentials by setting the

GitHub (https://github.com/Google	CloudPlatform/golang	g-samples/blob/mast	er/trace/trace_quick	start/main.go)

After deployment, you can view the traces in the Cloud Console Trace Viewer. Go to the Trace Viewer page (https://console.cloud.google.com/traces/overview)

- OpenCensus (https://opencensus.io/)
- <u>GitHub: census-instrumentation/opencensus-go</u> (https://github.com/census-instrumentation/opencensus-go)
- <u>Trace API V1 package</u> (https://godoc.org/cloud.google.com/go/trace/apiv1)
- <u>Trace API V2 package</u> (https://godoc.org/cloud.google.com/go/trace/apiv2)
- <u>Source code</u> (https://github.com/googleapis/google-cloud-go)
- <u>GitHub issue tracker</u> (https://github.com/GoogleCloudPlatform/google-cloud-go/issues)
- Stack Overflow (https://stackoverflow.com/questions/tagged/google-cloud-trace)