

ature is in a pre-release state and might change or have limited support. For more information, see the [product launch](#) ([/products/#product-launch-stages](#)).

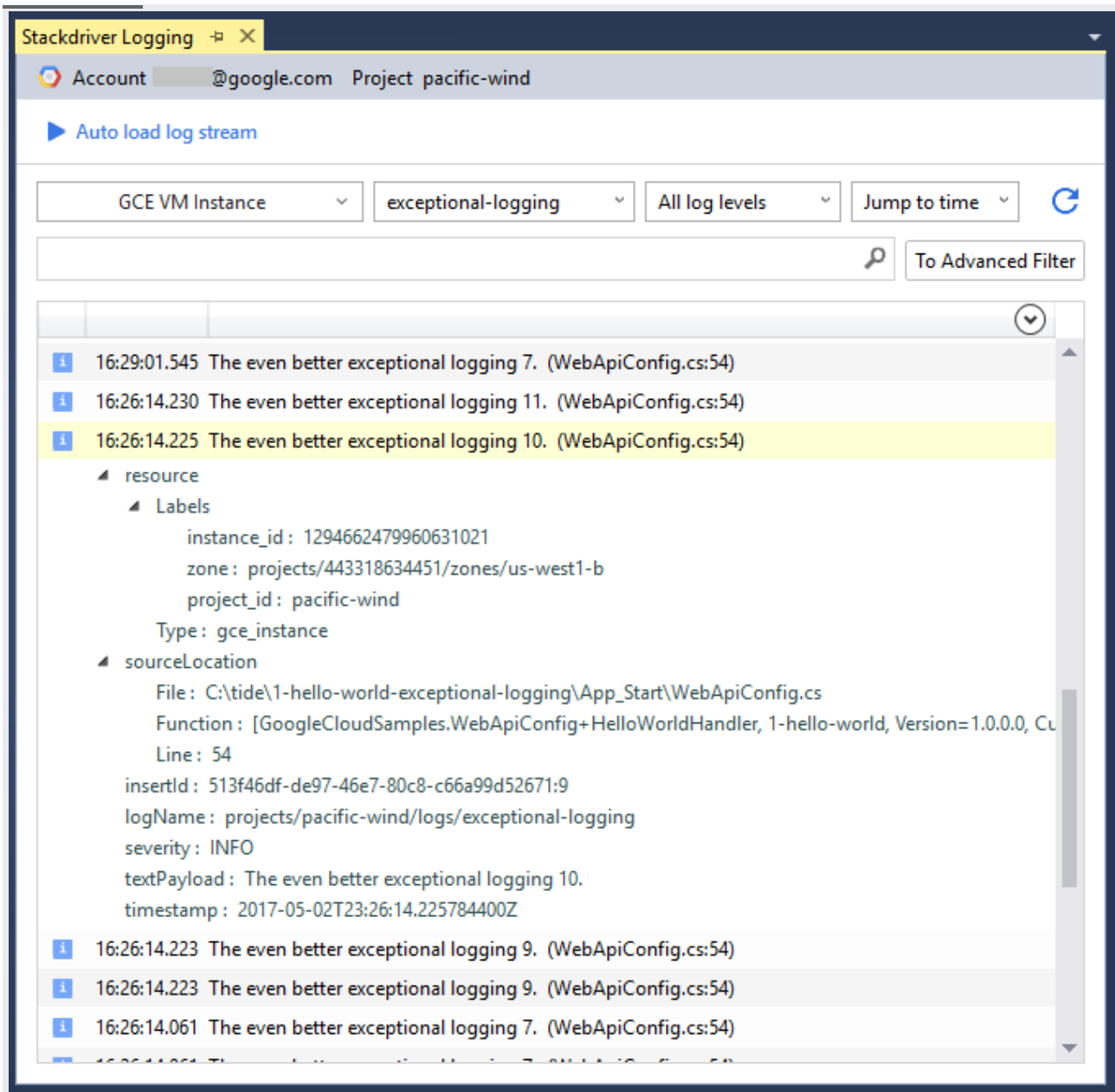
This document provides information on how to use the Stackdriver Logs Viewer to review logs.

- Configure your application to [use the Stackdriver Logging API](#) ([/logging/docs/integrate/dotnet](#)).
- Sign in your account to access Google Cloud resources.
  - Select **Tools** -> **Google Cloud Tools** -> **Manage Accounts...** to select your account.

To access Stackdriver Logs Viewer, select **Tools** -> **Google Cloud Tools** -> **Show Stackdriver Logs Viewer**.

The **Google Stackdriver Logging** tab opens.

Or, you can open the Logs Viewer for a specific project from **Google Cloud Explorer** by selecting **Tools** -> **Google Cloud Tools** -> **Google Cloud Explorer**. Right click the project and select **Browse Stackdriver Logs**.



The **Logs Viewer** interface has the following major components:

- A search bar to filter log entries by label or text search.
- Drop down menus to filter the list by resources, logs, and severity levels.
- **Jump to time** drop down menu to view a specific date and time in the logs.
- A **Refresh** button to retrieve the latest logs in descending order.
- **Auto load log stream** controls whether or not to display new log entries as they arrive.

- Clicking **Play** starts the stream of the latest logs. The stream will stop if you scroll the logs display.
- Clicking **Pause** stops the logs stream.
- The table of log summaries that you can click to view the full details for individual log entries.
- An **Expand all** down arrow at the top right corner of the log entries panel to show the details of all log entries. This action may take some time if the panel has a lot of log entries.
- If available, a source link to locate the source code that generates the log entry.

**Logs Viewer** allows you to navigate to the source code that generates a log entry. To enable this feature, you should build your project from a local git repository, and you must add source location information to log entries.

Configure your application to provide source code location information in the logs:

1. Write location information for the log entries using the [following sample from GitHub](https://github.com/GoogleCloudPlatform/dotnet-docs-samples/tree/master/logging/api/WithGitId) (<https://github.com/GoogleCloudPlatform/dotnet-docs-samples/tree/master/logging/api/WithGitId>).
2. Deploy a `source_context.json` file at the root of the application.

If you publish the solution via Cloud Tools for Visual Studio, the extension automatically generates and deploys the file. Or you can generate the file yourself following the [generate the source context file](#) ([/debugger/docs/setup/compute-engine-go#generate\\_the\\_source\\_context\\_file](#)) instructions.

After you complete these steps, the log entries contain a **sourceLocation** field with **File** and **Line** information. The optional **Function** line can contain the assembly name, version, or function name.

19:49:54.719 This is not error. This is correct. Monday. (Class1JustTime.cs:14)

- resource
  - Labels
    - instance\_id: 1194899709758152682
    - zone: projects/18437320847/zones/us-central1-b
    - project\_id: mars-148601
  - Type: gce\_instance
- sourceLocation
  - File: C:\tide\Private\_Gax\_Log4Net\_AspNetMvc\Private\_Gax\_Log4Net\_AspNetMvc\Class1Ju
  - Function: [Private\_Gax\_Log4Net\_AspNetMvc.Class1JustTime, Private\_Gax\_Log4Net\_AspNe
  - Line: 14
  - insertId: e003386f-88e8-44e4-840c-bb54c85b3187:25
- labels
  - git\_revision\_id: [c1f1baccaedf864f20d1610c7ff06595d633e5d](#)

Clicking the source link navigates to the source code if the source file is accessible.

```

1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Web;
5
6  using log4net;
7
8  namespace Private_Gax_Log4Net_AspNetMvc
9  {
10     public class Class1JustTime
11     {
12         public static void WriteLog(ILog logger)
13         {
14             logger.Error("This is not error. This is correct. Monday.");
15         }
16     }
17 }
18

```

Log viewer popup: 05-04-2017 19:49:54.719 This is not error. This is correct. Monday.

Stackdriver Logs Viewer  Only show logs generated by this source line

In the **Logs Viewer** interface, you can filter the log entries or search for specific logs to display.

You can filter the log entries to see only those logs you are interested in.

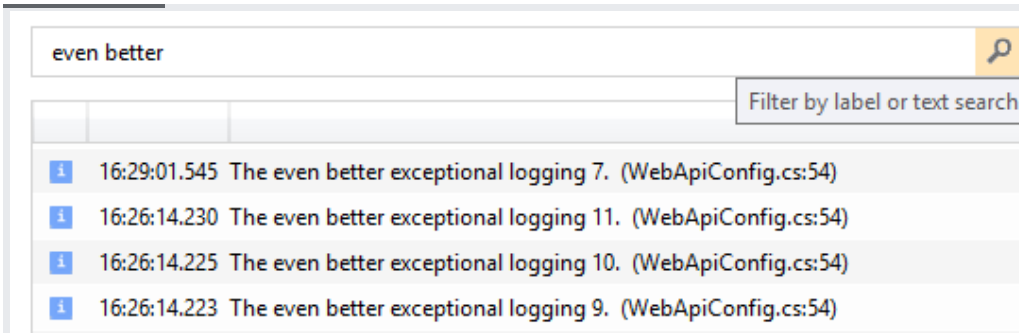
- In the resource type and instance drop-down menu, you can select all instances of a particular resource type you wish to see, or view a specific instance. For a list of resource types, see the [Monitored Resources and Services \(/logging/docs/api/v2/resource-list\)](/logging/docs/api/v2/resource-list).
- In the log type drop-down menu, select the named logs you want to view or select **All logs**. The menu only shows the logs that the selected resource generates.
- In the log severity drop-down menu, select the severity level you want to view. Selecting **All log levels** includes log entries that do not have a severity level.
- In the **Jump to time** drop-down menu, select a date and time. Choose if you want to see logs **before** or **after** the selected timestamp.

You can also click **To Advanced Filter** to access the advanced filter bar where you can filter the log entries through queries. Click the [Advanced filter help \(/logging/docs/view/advanced\\_filters\)](/logging/docs/view/advanced_filters) link for more information.

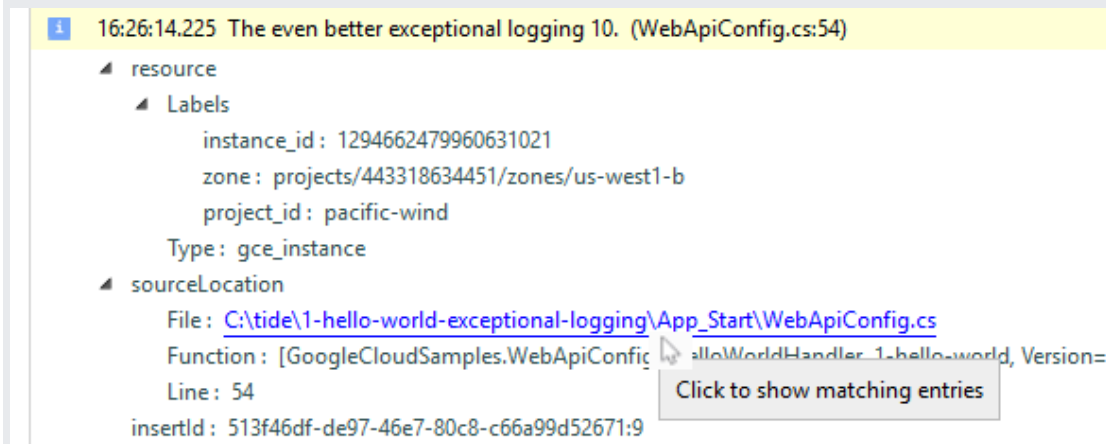
The screenshot shows the advanced filter bar with the following query: `resource.type="gce_instance" timestamp<="2017-05-05T01:25:12.4055501Z"`. There are buttons for "Submit Filters", "View simple filters", and "Advanced filter help". Below the filter bar, a list of log entries is displayed, each with a blue lambda icon, a timestamp, and a message:

λ	11:53:28.528	Entering TableAsync (GoogleDriveController.cs:195)
λ	11:53:20.959	Return safe view (GoogleDriveController.cs:142)
λ	11:53:20.959	construct Drive (Drive.cs:46)
λ	11:53:20.958	Credential user id dd21eb22-8434-4e49-bb5e-1201591d3f64 (GoogleDriveController.cs:62)
λ	11:53:20.958	secret is VG1mz (FlowMetadata.cs:85)

In the search bar, search for keywords that appear in the log entries.



You can click the value of an individual field in the expanded log entry view and then either show or hide all log entries with the same value.



When you show similar log entries, the advanced filter bar displays, where you can edit the filter and click **Submit Filters**. Click the [Advanced filter help \(/logging/docs/view/advanced\\_filters\)](/logging/docs/view/advanced_filters) link for more information.