A new menu-driven filtering model for the **Trace list** page is in beta (/products/#product-launch-stages) testing.
pants are selected randomly for the beta UI. If you are selected a banner is displayed. To use the beta, you can ignore
r or click **Dismiss**. To use the generally available **Trace List** page, click **Switch to classic mode**. If you dismiss the ban
en want use the classic mode, click **Refresh** ↻ in your browser, and then click **Switch to classic mode**.

age describes how to use the current UI and the beta UI. Choose the set of instructions that applies to your choice of

Trace list window (generally available) (#classic-ui)

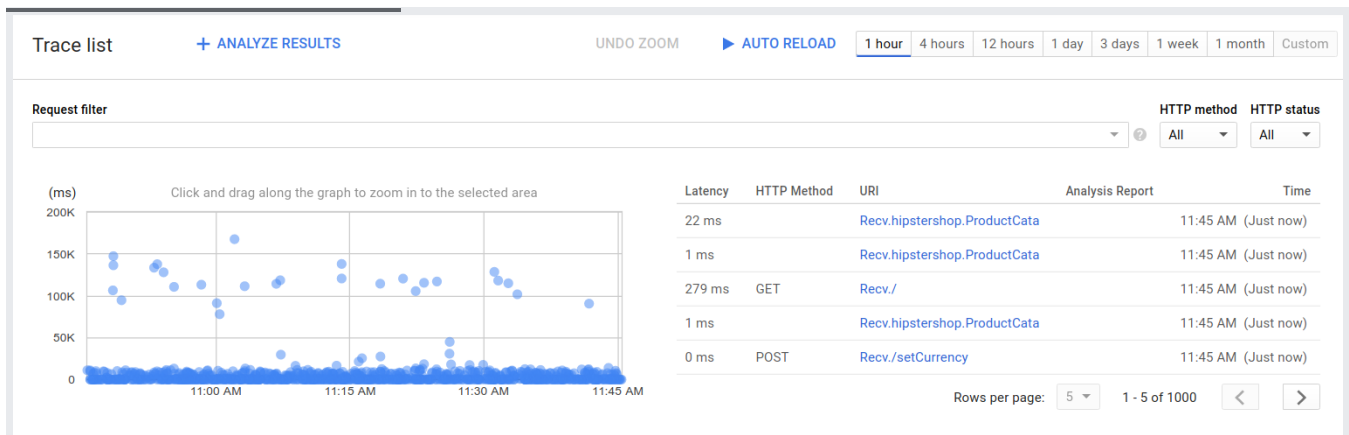Trace list window (beta) (#beta-ui)

The **Trace list** window lets you find, and examine, individual traces in detail. You can view and
inspect all spans for a trace, view summary information for a request, and view detailed information
for each span in the trace from this window. To restrict the traces being investigated, you add filters.
For example, you can add a filter to display only traces whose latency exceeds 1 second.

The **Trace list** window stores and displays at most 1000 traces.

To view recent traces, in the Google Cloud Console select **Trace** and then select **Trace list**, or use the
following button:

Go to Trace List (https://console.cloud.google.com/traces/traces)

If this is your first time using Trace, it can take a few minutes for traces to appear. The following
screenshot shows an example of the trace list for a Compute Engine configuration:

The **Trace list** window defaults to displaying data from the previous hour. You can change this interval to preset values by using the buttons in top of the window. The preset options are:

- 1 hour

- 4 hours

- 12 hours

- 1 day

- 3 days

- 1 week

- 1 month

By default, the time interval is set to **1 hour**.

To select a custom time frame, you use your pointer to highlight a section of the latency graph. This selection sets the time interval *and* the range of latency values for the displayed traces. For example, the following image selects a time interval of `19:00` to `6:10 AM` that have a latency in the range of about `90 ms` to `390 ms`:
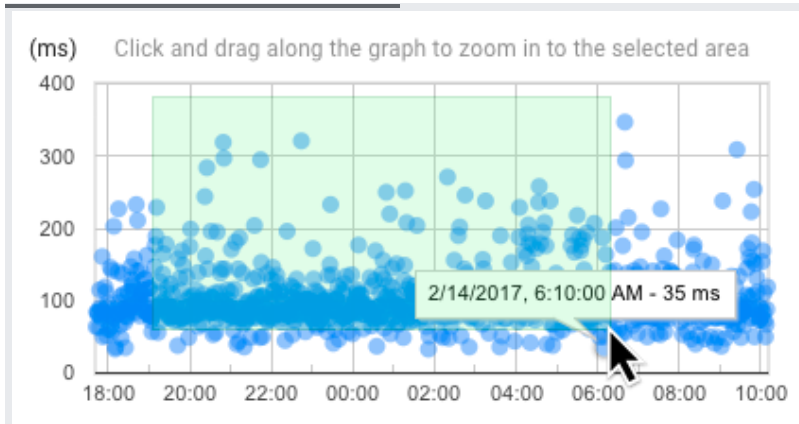
To restore the graph to the preset time interval, click **Undo zoom**.

You use filters to hide, or to find individual traces. The previous section described how you can highlight a section of the latency graph to show a subset of traces in more detail, while hiding all of the other traces. In this section, the **Request filter**, and the filter menus are described.

By default, the filters are set to include all traces.

| Filter | Description |
| --- | --- |

| Filter | Description |
|---|---|
| **Request filter** | Lets you specify one or more conditions that must be satisfied for a trace to be displayed. The filter syntax lets you define when matches are exact, or when they are prefix tests. All matches are case-sensitive. For detailed information on trace filter syntax, go to <u>Trace filters</u> (/trace/docs/trace-filters).<br><br>For example, to list all traces for a project with root span name `Recv`, enter the root span name, `Recv`, or a prefix for the root span name, such as `Re`.<br><br>When you want to list all traces with spans annotated with an `/http/status_code` label in the range `200–299`, where the latency is one second or more, and the trace contains a span with the exact name `/modules.GetNumInstances`, you would use the following filter:<br><br><br><br>In the previous example, the trace filter term **+span** forces an exact match on the span name. When you want to include all traces where `/modules.GetNumInstances` is a prefix for a span name, omit the plus sign.<br><br>You don't need to include the string delimiter in filters unless your filter expression contains a space. For example, `Recv` and `"Recv"`, are equivalent. |
| **HTTP method** | The value you select for this filter applies only to trace root spans annotated with the `/http/method` label. You can include all requests or filter by the HTTP method type: `GET`, `DELETE`, `POST`, or `PUT`. |
| **HTTP status** | The value you select for this filter applies only to trace root spans annotated with the `/http/status_code` label. You can select individual status values, such as `301` or ranges of status values, such as `3xx`. |
| **Service** | (App Engine only) Lets you select traces by their service. The value you select for service is tested against all spans of a trace. When any span matches the service, the trace is displayed. |
| **Version** | (App Engine only) Lets you select traces by the application's version. The value you select for version is tested against all spans of a trace. When any span matches the value, the trace is displayed. |

The **HTTP method** and **HTTP status** filters search for an annotation in the trace: they don't examine the actual HTTP st. You must instrument your application to include the labels if you want to use these filters. App Engine standard nment automatically includes these labels in the traces it captures.

Under the row of filters is a latency graph and a table of the most recent traces. Each dot in the latency graph corresponds to a specific request. The *(x,y)* coordinates for a request correspond to the time and latency of the request.

When you hold the pointer over a dot, a dialog appears that includes the date, time, and latency:

When you click a dot, the following changes occur:

- The table is updated to highlight the request you selected.

- A **Timeline** is displayed under the latency graph. The timeline displays all of the latency information between services for that request.

- A pane is displayed that includes a **Summary** table with information about the request and a **Details** table with information about the root span.

When you click a span in the **Timeline**, the **Details** pane displays additional information about that span. From this pane, you can open and view log entries, when they are available. For more information, go to Viewing trace details (/trace/docs/viewing-details).

By default, the recent-request table displays the 5 most recent requests. The table stores 1000 traces.

| Attribute | Description |
|---|---|
| Latency | The end-to-end time for the application to handle the request. |
| HTTP method | Type of HTTP method, when applicable. This field is blank for non-HTTP requests. |
| URI | The relative URI of the request. |
| Analysis report | A link to the associated analysis report, when one is available. |
| Time | When the request was started. |

You can change the requests displayed in the table by using any of the following methods:

- Select a time range.

- Browse backwards or forwards by using the **Previous**  ‹  and **Next**  ›  buttons.

- Click a column header to change the row ordering.

- Click a dot in the latency graph.


- [Viewing trace details](/trace/docs/viewing-details) (/trace/docs/viewing-details)

- [Creating analysis reports](/trace/docs/analysis-reports) (/trace/docs/analysis-reports)

- [Viewing traces across projects](/trace/docs/cross-project-traces) (/trace/docs/cross-project-traces)

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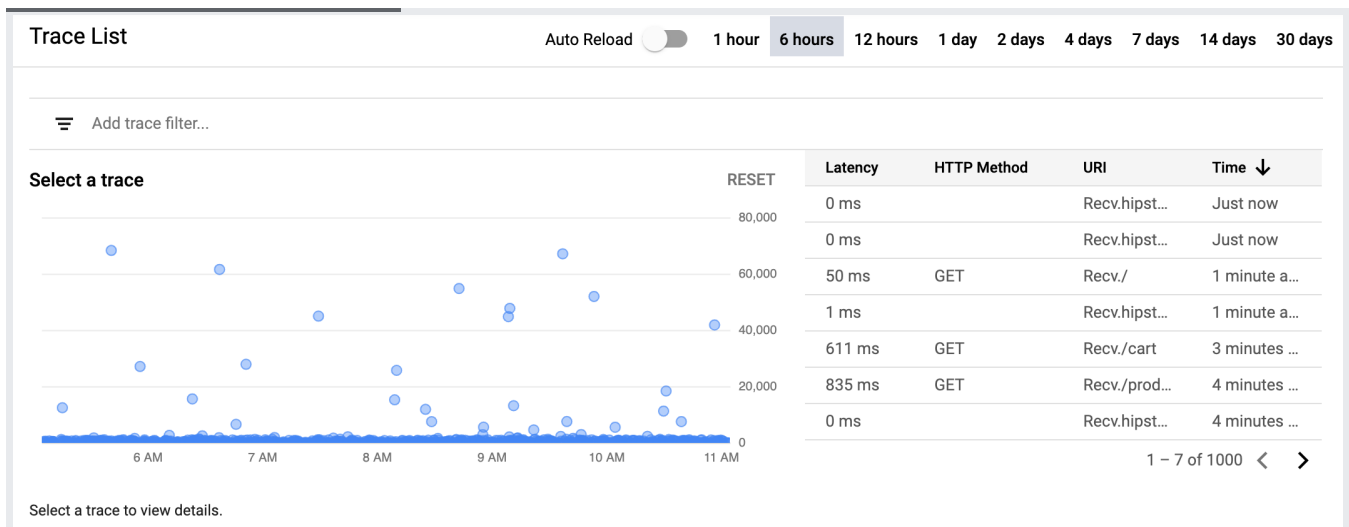stages (/products/#product-launch-stages).

The **Trace list** window lets you find, and examine, individual traces in detail. You can view and inspect all spans for a trace, view summary information for a request, and view detailed information for each span in the trace from this window. To restrict the traces being investigated, you add filters. For example, you can add a filter to display only traces whose latency exceeds 1 second.

The **Trace list** window stores and displays at most 1000 traces.

To view recent traces, in the Google Cloud Console select **Trace** and then select **Trace list**, or use the following button:

[Go to Trace List](https://console.cloud.google.com/traces/traces) (https://console.cloud.google.com/traces/traces)

If this is your first time using Trace, it can take a few minutes for traces to appear. The following screenshot shows an example of the trace list for a Compute Engine configuration:

| Trace List | | | Auto Reload | 1 hour | **6 hours** | 12 hours | 1 day | 2 days | 4 days | 7 days | 14 days | 30 days |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

≡ Add trace filter...

**Select a trace**          RESET



| Latency | HTTP Method | URI | Time ↓ |
| --- | --- | --- | --- |
| 0 ms | | Recv.hipst… | Just now |
| 0 ms | | Recv.hipst… | Just now |
| 50 ms | GET | Recv./ | 1 minute a… |
| 1 ms | | Recv.hipst… | 1 minute a… |
| 611 ms | GET | Recv./cart | 3 minutes … |
| 835 ms | GET | Recv./prod… | 4 minutes … |
| 0 ms | | Recv.hipst… | 4 minutes … |

1 – 7 of 1000   ‹   ›

Select a trace to view details.

The **Trace list** window defaults to displaying data from the previous hour. You can change this interval to preset values by using the buttons in top of the window. The preset options are:

- 1 hour

- 6 hours

- 12 hours

- 1 day

- 2 days

- 4 days

- 7 days

- 14 days

- 30 days

To view a custom time interval, do the following:

1. Select a preset option that is longer than your desired custom time interval.

2. Place your pointer on the **Select a trace** plot at one end of the time interval and drag your pointer horizontally to the other end of the interval.

3. (Optional) To view a custom range of latency values, placing your pointer at one end of the desired range, and dragging it vertically to the other end.

You can repeat these actions until you have selected the desired time interval and latency ranges/

To restore the graph to the preset time interval, click **Reset**.

You use filters to hide, or to find, individual traces. Each filter is specified by a predefined `OPTION` that is paired with a `VALUE`. The general syntax is:

For example, the following screenshot illustrates a single filter. The filter option is `RootSpan` and `Recv.` is the filter value. With this filter, only traces whose root span is prefixed by `Recv.` are displayed.
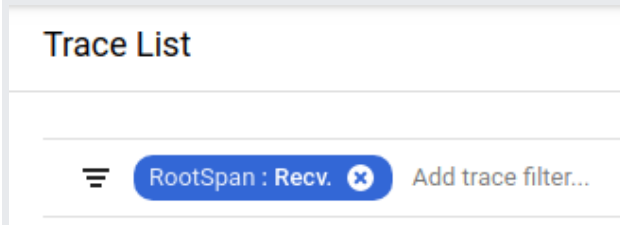


To display traces that are an exact match to `Recv.`, use `+Recv.` as the filter value. The use of the plus sign **+** indicates that you want an exact match. For more details on filtering options, see Trace filters (/trace/docs/trace-filters).

If you add multiple filters, only traces that satisfy all filters are displayed.

To add a filter, do the following:

1. Click **Add trace filter** ☰ to display a menu of filter options and then select an `OPTION`. You always have the following options:

   - **RootSpan**: Match the root span name.

   - **SpanName**: Match the span name.

   - **Method**: Display traces whose root spans are annotated with the `/http/method` label, where the value of the label matches `VALUE`.

   - **Status**: Display traces whose root spans are annotated with the `/http/status_code` label, where the value label matches `VALUE`. In this case, `VALUE` can contain specific status codes, such as `301`, or ranges of status values, such as `3xx`.

- **MinLatency**: Display traces whose latency is at least as large as `VALUE` milliseconds.

- **HasLabel**: Display traces where the label specified by `VALUE` appears in at least one span.

- **Service**: (App Engine only) Display traces that contain at least one span whose service name matches `VALUE`.

- **Version**: (App Engine only) Display traces that contain at least one span whose application's version matches `VALUE`.

You might see other options such as **URL** and **LABEL: Client**.

2. (Optional) If you want an exact match, enter a plus sign **+**. By default, a match is determined by performing a prefix test with `VALUE`. For more details on filtering options, see Trace filters (/trace/docs/trace-filters).

3. Specify the filter `VALUE` by doing one of the following:

- Selection from the `VALUE` menu. The value-menu options aren't guaranteed to be complete.

- Enter a value manually and then hit `return` on your keyboard.

For example, to show all traces that contain an HTTP POST command and whose latency is at least 2 seconds, add a filter with the option `MinLatency` whose value is `2000`.

Adding and removing filters doesn't affect the **Trace details** (/trace/docs/viewing-details) pane. If you have selected c trace to view in detail, and then add or remove filters, the trace details pane is unchanged.

The graph labeled **Select a trace** displays a dot for each request in your selected time interval. The *(x,y)* coordinates for a request correspond to the time and latency of the request.

When you hold the pointer over a dot, a tooltip appears that includes the date, time, URI, and latency:
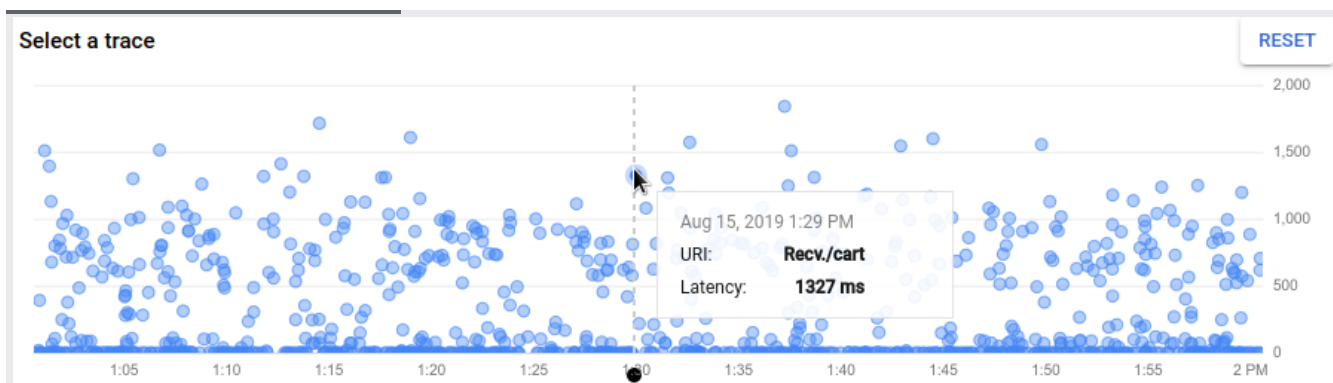
When you click a dot, the following changes occur:

- The graph is refreshed and the dot you selected is highlighted with a circle drawn around the dot.

- The request table highlights the selected URI.

- Two new panes might open on the **Trace list** window. The waterfall graph displays each span in a URI. The details pane displays detailed information about the URI and includes links to logs and analysis reports when they are available. If these panes are already open, clicking a dot refreshes the data displayed in these panes.

By default, the recent-request table displays the 5 most recent requests. The table stores 1000 traces.

| Attribute | Description |
| --- | --- |
| Latency | The end-to-end time for the application to handle the request. |
| HTTP method | Type of HTTP method, when applicable. This field is blank for non-HTTP requests. |
| URI | The relative URI of the request. |
| Analysis report | A link to the associated analysis report, when one is available. |
| Time | When the request was started. |

You can change the requests displayed in the table by using any of the following methods:

- Select a time range.

- Browse backwards or forwards by using the **Previous** ‹ and **Next** › buttons.

- Click a column header to change the row ordering.

- Click a dot in the latency graph.



- [Viewing trace details](/trace/docs/viewing-details) (/trace/docs/viewing-details)

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