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

This page explains how to view logs in Stackdriver for errors triggered in DICOM import requests and
FHIR import and export requests.

Errors triggered in each of the following requests are logged to Stackdriver Logging (/logging/docs/).

- DICOM import
  (/healthcare/docs/reference/rest/v1beta1/projects.locations.datasets.dicomStores/import)

- FHIR import (/healthcare/docs/reference/rest/v1beta1/projects.locations.datasets.fhirStores/import)

- FHIR export (/healthcare/docs/reference/rest/v1beta1/projects.locations.datasets.fhirStores/export)

- Dataset de-identification
  (/healthcare/docs/reference/rest/v1beta1/projects.locations.datasets/deidentify)

- DICOM de-identification
  (/healthcare/docs/reference/rest/v1beta1/projects.locations.datasets.dicomStores/deidentify)

- FHIR de-identification
  (/healthcare/docs/reference/rest/v1beta1/projects.locations.datasets.fhirStores/deidentify)

Logging is automatic and does not need to be enabled. To disable Stackdriver Logging for one or all
monitored resources, see Logs exclusions (/logging/docs/exclusions).

To view logs, go to the Logs Viewer (https://console.cloud.google.com/logs). You can filter logs by store
type (DICOM or FHIR store), region, and dataset.

For example, in the first list under **Filter by label or text search**, click **Healthcare FHIR Store** to view
logs for FHIR stores.

UTF-8 (https://en.wikipedia.org/wiki/UTF-8) encoding is enforced for log fields. Characters that are not UTF-8 characters are replaced with question marks.

For detailed information about the Logs Viewer, see Viewing logs (/logging/docs/view/overview).

Cloud Healthcare API log entries contain the following types of information for debugging requests:

- General information, such as severity, project ID, project number, and timestamp.

- `jsonPayload` contains the actual body of the entry. This field contains the error code, the error message, and the name of the source file whose import triggered the error.

- `operation` contains the type and ID of the operation that produced the error.

- `resource` contains the location, dataset, and DICOM or FHIR store involved in the error.

If the number of errors exceeds a threshold, a limited number of errors appears in Stackdriver Logging. The threshold is dynamically calculated based on the size of the input.

Stackdriver is not a regionalized product. Logs written to Stackdriver could be stored in a different region from the DICOM and FHIR stores.

The following sample log entry shows an `empty DICOM instance found` error that occurred while attempting to import `gs://DICOM_FILENAME.dcm` to `projects/PROJECT_ID/locations/LOCATION/datasets/DATASET_ID/dicomStores/DICOM_STORE_ID`.

The following sample log entry shows a `cannot import resource` error that occurred while attempting to import `gs://`*`FHIR_FILENAME`*`.ndjson` to `projects/`*`PROJECT_ID`*`/locations/`*`LOCATION`*`/datasets/`*`DATASET_ID`*`/fhirStore/`*`FHIR_STORE_ID`*.

The following sample log entry shows a `cannot de-identify dicom instance` error that occurred while trying to de-identify DICOM instance *INSTANCE_ID* in dataset `projects/`*PROJECT_ID*`/locations/`*LOCATION*`/datasets/`*DATASET_ID*.

- Review the conceptual information about Cloud Healthcare API
  (/healthcare/docs/concepts/introduction)

- Review the <u>conceptual information about Stackdriver Logging</u> (/logging/docs/basic-concepts)