

The [Interactions API](/gemini-api/docs/interactions-overview) (/gemini-api/docs/interactions-overview) is now generally available. We recommend using this API for access to all the latest features and models.

Gemini Triggers API

Beta: This API is in Beta. Endpoints are under **/v1beta/**.

Triggers allow you to schedule agent executions on a cron schedule, enabling automated and recurring tasks.

[View as markdown \(/static/api/triggers.md.txt\)](/static/api/triggers.md.txt)

[View the OpenAPI Spec \(/static/api/interactions.openapi.json\)](/static/api/interactions.openapi.json)

CreateTrigger

POST <https://generativelanguage.googleapis.com/v1beta/triggers>

Creates a new trigger that will invoke the specified agent on the given cron schedule.

Request body

The request body contains data with the following structure:

display_name string (optional)

Optional. The display name of the trigger.

environment_id string (optional)

Optional. The environment ID for the trigger execution.

execution_timeout_seconds integer (optional)

Optional. The execution timeout for the triggered interaction.

interaction CreateAgentInteractionParams or CreateModelInteractionParams **(required)**

Required. The interaction request template to be executed.

max_consecutive_failures integer (optional)

Optional. The maximum number of consecutive failures allowed before the trigger is automatically paused (status becomes ERROR).

schedule string (required)

Required. The cron schedule on which the trigger should run. Standard cron format.

time_zone string (required)

Required. Time zone in which the schedule should be interpreted.

Response

If successful, the response body contains data with the following structure:

consecutive_failure_count integer (optional)

Output only. The number of consecutive failures that have occurred since the last successful execution.

create_time string (optional)

Output only. The time when the trigger was created.

display_name string (optional)

Optional. The display name of the trigger.

environment_id string (optional)

Optional. The environment ID for the trigger execution.

execution_timeout_seconds integer (optional)

Optional. The execution timeout for the triggered interaction.

id string (optional)

Required. Output only. Identifier. The ID of the trigger.

► **interaction** Interaction (optional)

last_pause_time string (optional)

Output only. The time when the trigger was last paused.

last_resume_time string (optional)

Output only. The time when the trigger was last resumed.

last_run_time string (optional)

Output only. The time when the trigger was last run.

max_consecutive_failures integer (optional)

Optional. The maximum number of consecutive failures allowed before the trigger is automatically paused (status becomes ERROR).

next_run_time string (optional)

Output only. The time when the trigger is scheduled to run next.

previous_interaction_id string (optional)

Output only. The ID of the last interaction created by this trigger.

schedule string (optional)

Required. The cron schedule on which the trigger should run. Standard cron format.

status enum (string) (optional)

Output only. The current status of the trigger.

Possible values:

- **active**
The trigger is active and will fire on schedule.
- **paused**
The trigger is paused and will not fire.
- **error**
The trigger has entered an error state due to consecutive failures.

time_zone string (optional)

Required. Time zone in which the schedule should be interpreted.

update_time string (optional)

Output only. The time when the trigger was last updated.

Example

(#example)

EXAMPLE REQUEST

```
curl -X POST 'https://generativelanguage.googleapis.com/v1beta/triggers'
-H 'Content-Type: application/json' \
-d '{
  "display_name": "string",
  "environment_id": "string",
  "execution_timeout_seconds": 0,
  "interaction": {
    "agent": "deep-research-pro-preview-12-2025",
    "agent_config": {
      "type": {}
    },
    "background": true,
    "created": "string",
    "environment": "string",
    "environment_id": "string",
    "id": "string",
    "input": "string",
    "labels": {},
    "previous_interaction_id": "string",
    "previous_format": [

```

EXAMPLE RESPONSE

```
{
  "consecutive_failure_count": 0,
  "create_time": "string",
  "display_name": "string",
  "environment_id": "string",
  "execution_timeout_seconds": 0,
  "id": "string",
  "interaction": {
    "created": "2025-12-04T15:01:45Z",
    "id": "v1_ChdxS0l4YWZXTk9xbk0xZThQczhEcm1ROBIXV0tJeGFmV05PcW5NMWU4U",
    "model": "gemini-3.5-flash",
    "object": "interaction",
    "steps": [
      {
        "type": "model_output",
        "content": [
          {
            "type": "text",
            "text": "Hello! I'm doing well, functioning as expected. Th"
          }
        ]
      }
    ]
  }
}
```

```
"status": "completed",
"updated": "2025-12-04T15:01:45Z",
"usage": {
  "input_tokens_by_modality": [
```

```
updated : string ,
"webhook_config": {
  "uris": [
    "string"
```

RunTrigger

```
"user_metadata": {}
```

POST https://generativelanguage.googleapis.com/v1beta/triggers/{trigger_id}/executions

```
},
"max_consecutive_failures": 0,
"schedule": "string",
"time_zone": "string"
}'
```

Response

If successful, the response body contains data with the following structure:

end_time string (optional)

Output only. The time when the execution finished.

environment_id string (optional)

Output only. The environment ID used for the execution.

error string (optional)

Output only. The error message if the execution failed.

id string (optional)

Required. Output only. Identifier. The ID of the trigger execution.

interaction_id string (optional)

Output only. The ID of the interaction created by this execution, if any.

scheduled_time string (optional)

Output only. The time when the execution was scheduled to run.

start_time string (optional)

Output only. The time when the execution started.

status enum (string) (optional)

Output only. The status of the execution.

Possible values:

- **in_progress**
The execution is currently in progress.
- **completed**
The execution completed successfully.
- **failed**
The execution failed.
- **skipped**
The execution was skipped (e.g., previous execution still running).
- **timed_out**
The execution timed out.

trigger_id string (optional)

Required. Output only. Identifier. The ID of the trigger that created this execution.

Example

(#example)

REST

EXAMPLE REQUEST

```
curl -X POST 'https://generativelanguage.googleapis.com/v1beta/triggers' \
-H 'Content-Type: application/json' \
```

EXAMPLE RESPONSE

```
{
  "end_time": "string",
  "environment_id": "string",
  "error": "string",
  "id": "string",
  "interaction_id": "string",
```

```
"scheduled_time": "string",
"start_time": "string",
"status": "in_progress",
"trigger_id": "string"
}
```

ListTriggers

GET <https://generativelanguage.googleapis.com/v1beta/triggers>

Lists triggers for a project.

Path / Query Parameters

filter string (optional)

Optional. Filter expression (e.g., by state).

page_size integer (optional)

Optional. The maximum number of triggers to return per page.

page_token string (optional)

Optional. A page token from a previous ListTriggers call.

Response

If successful, the response body contains data with the following structure:

next_page_token string (optional)

A page token, received from a previous `ListTriggers` call. Provide this to retrieve the subsequent page.

triggers array ([Trigger](#) (#Resource:Trigger)) (optional)

The list of triggers.

REST

EXAMPLE REQUEST

```
curl -X GET 'https://generativelanguage.googleapis.com/v1beta/triggers'  
-H 'Content-Type: application/json' \
```

EXAMPLE RESPONSE

```
{  
  "next_page_token": "string",  
  "triggers": [  
    {  
      "consecutive_failure_count": 0,  
      "create_time": "string",  
      "display_name": "string",  
      "environment_id": "string",  
      "execution_timeout_seconds": 0,  
      "id": "string",  
      "interaction": {  
        "created": "2025-12-04T15:01:45Z",  
        "id": "v1_ChdxS0l4YWZXtk9xbk0xZThQczhEcm1ROBIXV0tJeGFmV05PcW5NM",  
        "model": "gemini-3.5-flash",  
        "object": "interaction",  
        "steps": [  
          {  
            "type": "model_output",  
            "content": [  
              {  
                "type": "text",  
                "text": "Hello! I'm doing well, functioning as expected"  
              }  
            ]  
          }  
        ],  
        "status": "completed",  
        "updated": "2025-12-04T15:01:45Z",  
        "usage": {
```

GetTrigger

GET <https://generativelanguage.googleapis.com/v1beta/triggers/{id}>

Gets details of a single trigger.

Response

If successful, the response body contains data with the following structure:

consecutive_failure_count integer (optional)

Output only. The number of consecutive failures that have occurred since the last successful execution.

create_time string (optional)

Output only. The time when the trigger was created.

display_name string (optional)

Optional. The display name of the trigger.

environment_id string (optional)

Optional. The environment ID for the trigger execution.

execution_timeout_seconds integer (optional)

Optional. The execution timeout for the triggered interaction.

id string (optional)

Required. Output only. Identifier. The ID of the trigger.

► **interaction** Interaction (optional)

last_pause_time string (optional)

Output only. The time when the trigger was last paused.

last_resume_time string (optional)

Output only. The time when the trigger was last resumed.

last_run_time string (optional)

Output only. The time when the trigger was last run.

max_consecutive_failures integer (optional)

Optional. The maximum number of consecutive failures allowed before the trigger is automatically paused (status becomes ERROR).

next_run_time string (optional)

Output only. The time when the trigger is scheduled to run next.

previous_interaction_id string (optional)

Output only. The ID of the last interaction created by this trigger.

schedule string (optional)

Required. The cron schedule on which the trigger should run. Standard cron format.

status enum (string) (optional)

Output only. The current status of the trigger.

Possible values:

- **active**
The trigger is active and will fire on schedule.
- **paused**
The trigger is paused and will not fire.
- **error**
The trigger has entered an error state due to consecutive failures.

time_zone string (optional)

Required. Time zone in which the schedule should be interpreted.

update_time string (optional)

Output only. The time when the trigger was last updated.

Example

(#example)

EXAMPLE REQUEST

```
curl -X GET 'https://generativelanguage.googleapis.com/v1beta/triggers/'  
-H 'Content-Type: application/json' \
```

EXAMPLE RESPONSE

```
{  
  "consecutive_failure_count": 0,  
  "create_time": "string",  
  "display_name": "string",  
  "environment_id": "string",  
  "execution_timeout_seconds": 0,  
  "id": "string",  
  "interaction": {  
    "created": "2025-12-04T15:01:45Z",  
    "id": "v1_ChdxS0l4YWZXtk9xbk0xZThQczhEcmlR0BIXV0tJeGFmV05PcW5NMWU4U",  
    "model": "gemini-3.5-flash",  
    "object": "interaction",  
    "steps": [  
      {  
        "type": "model_output",  
        "content": [  
          {  
            "type": "text",  
            "text": "Hello! I'm doing well, functioning as expected. Th  
          }  
        ]  
      }  
    ],  
    "status": "completed",  
    "updated": "2025-12-04T15:01:45Z",  
    "usage": {  
      "input_tokens_by_modality": [  
        {  
          "modality": "text",
```

GET https://generativelanguage.googleapis.com/v1beta/triggers/{trigger_id}/executions

Lists executions for a trigger.

Path / Query Parameters

page_size integer (optional)

Optional. The maximum number of executions to return per page.

page_token string (optional)

Optional. A page token from a previous ListTriggerExecutions call.

Response

If successful, the response body contains data with the following structure:

next_page_token string (optional)

A page token, received from a previous `ListTriggerExecutions` call. Provide this to retrieve the subsequent page.

trigger_executions array ([TriggerExecution](#) (#Resource:TriggerExecution)) (optional)

The list of trigger executions.

Example

(#example)

REST

EXAMPLE REQUEST

```
curl -X GET 'https://generativelanguage.googleapis.com/v1beta/triggers/  
-H 'Content-Type: application/json' \
```

EXAMPLE RESPONSE

```
{
  "next_page_token": "string",
  "trigger_executions": [
    {
      "end_time": "string",
      "environment_id": "string",
      "error": "string",
      "id": "string",
      "interaction_id": "string",
      "scheduled_time": "string",
      "start_time": "string",
      "status": "in_progress",
      "trigger_id": "string"
    }
  ]
}
```

UpdateTrigger

PATCH <https://generativelanguage.googleapis.com/v1beta/triggers/{id}>

Updates a trigger.

Request body

The request body contains data with the following structure:

display_name string (optional)

Optional. The display name of the trigger.

status enum (string) (optional)

Optional. The status of the trigger.

Possible values:

- **active**
The trigger is active and will fire on schedule.

- **paused**
The trigger is paused and will not fire.
- **error**
The trigger has entered an error state due to consecutive failures.

Response

If successful, the response body contains data with the following structure:

consecutive_failure_count integer (optional)

Output only. The number of consecutive failures that have occurred since the last successful execution.

create_time string (optional)

Output only. The time when the trigger was created.

display_name string (optional)

Optional. The display name of the trigger.

environment_id string (optional)

Optional. The environment ID for the trigger execution.

execution_timeout_seconds integer (optional)

Optional. The execution timeout for the triggered interaction.

id string (optional)

Required. Output only. Identifier. The ID of the trigger.

► **interaction** Interaction (optional)

last_pause_time string (optional)

Output only. The time when the trigger was last paused.

last_resume_time string (optional)

Output only. The time when the trigger was last resumed.

last_run_time string (optional)

Output only. The time when the trigger was last run.

max_consecutive_failures integer (optional)

Optional. The maximum number of consecutive failures allowed before the trigger is automatically paused (status becomes ERROR).

next_run_time string (optional)

Output only. The time when the trigger is scheduled to run next.

previous_interaction_id string (optional)

Output only. The ID of the last interaction created by this trigger.

schedule string (optional)

Required. The cron schedule on which the trigger should run. Standard cron format.

status enum (string) (optional)

Output only. The current status of the trigger.

Possible values:

- **active**
The trigger is active and will fire on schedule.
- **paused**
The trigger is paused and will not fire.
- **error**
The trigger has entered an error state due to consecutive failures.

time_zone string (optional)

Required. Time zone in which the schedule should be interpreted.

update_time string (optional)

Output only. The time when the trigger was last updated.

Example

(#example)

EXAMPLE REQUEST

```
curl -X PATCH 'https://generativelanguage.googleapis.com/v1beta/trigger'
-H 'Content-Type: application/json' \
-d '{
  "display_name": "string",
  "status": "active"
}'
```

EXAMPLE RESPONSE

```
{
  "consecutive_failure_count": 0,
  "create_time": "string",
  "display_name": "string",
  "environment_id": "string",
  "execution_timeout_seconds": 0,
  "id": "string",
  "interaction": {
    "created": "2025-12-04T15:01:45Z",
    "id": "v1_ChdxS0l4YWZXTk9xbk0xZThQczhEcm1R0BIXV0tJeGFmV05PcW5NMWU4U",
    "model": "gemini-3.5-flash",
    "object": "interaction",
    "steps": [
      {
        "type": "model_output",
        "content": [
          {
            "type": "text",
            "text": "Hello! I'm doing well, functioning as expected. Th"
          }
        ]
      }
    ],
    "status": "completed",
    "updated": "2025-12-04T15:01:45Z",
    "usage": {
      "input_tokens_by_modality": [
        {
          "modality": "text",
```

DeleteTrigger

DELETE `https://generativelanguage.googleapis.com/v1beta/triggers/{id}`

Deletes a trigger.

Response

If successful, the response is empty.

Example
(#example)

REST

EXAMPLE REQUEST

```
curl -X DELETE 'https://generativelanguage.googleapis.com/v1beta/triggers/{id}' \
-H 'Content-Type: application/json' \
```

Resources

Trigger

A trigger configuration that is scheduled to run an agent.

Fields

consecutive_failure_count integer (optional)
Output only. The number of consecutive failures that have occurred since the last successful execution.

create_time string (optional)

Output only. The time when the trigger was created.

display_name string (optional)

Optional. The display name of the trigger.

environment_id string (optional)

Optional. The environment ID for the trigger execution.

execution_timeout_seconds integer (optional)

Optional. The execution timeout for the triggered interaction.

id string (optional)

Required. Output only. Identifier. The ID of the trigger.

► **interaction** Interaction (optional)

last_pause_time string (optional)

Output only. The time when the trigger was last paused.

last_resume_time string (optional)

Output only. The time when the trigger was last resumed.

last_run_time string (optional)

Output only. The time when the trigger was last run.

max_consecutive_failures integer (optional)

Optional. The maximum number of consecutive failures allowed before the trigger is automatically paused (status becomes ERROR).

next_run_time string (optional)

Output only. The time when the trigger is scheduled to run next.

previous_interaction_id string (optional)

Output only. The ID of the last interaction created by this trigger.

schedule string (optional)

Required. The cron schedule on which the trigger should run. Standard cron format.

status enum (string) (optional)

Output only. The current status of the trigger.

Possible values:

- **active**
The trigger is active and will fire on schedule.
- **paused**
The trigger is paused and will not fire.
- **error**
The trigger has entered an error state due to consecutive failures.

time_zone string (optional)

Required. Time zone in which the schedule should be interpreted.

update_time string (optional)

Output only. The time when the trigger was last updated.

TriggerExecution

An execution instance of a trigger.

Fields

end_time string (optional)

Output only. The time when the execution finished.

environment_id string (optional)

Output only. The environment ID used for the execution.

error string (optional)

Output only. The error message if the execution failed.

id string (optional)

Required. Output only. Identifier. The ID of the trigger execution.

interaction_id string (optional)

Output only. The ID of the interaction created by this execution, if any.

scheduled_time string (optional)

Output only. The time when the execution was scheduled to run.

start_time string (optional)

Output only. The time when the execution started.

status enum (string) (optional)

Output only. The status of the execution.

Possible values:

- **in_progress**
The execution is currently in progress.
- **completed**
The execution completed successfully.
- **failed**
The execution failed.
- **skipped**
The execution was skipped (e.g., previous execution still running).
- **timed_out**
The execution timed out.

trigger_id string (optional)

Required. Output only. Identifier. The ID of the trigger that created this execution.

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