

# KIP-970: Deprecate and remove Connect's redundant task configurations endpoint

- [Status](#)
- [Motivation](#)
- [Public Interfaces](#)
- [Proposed Changes](#)
- [Compatibility, Deprecation, and Migration Plan](#)
- [Rejected Alternatives](#)

## Status

**Current state:** *"Accepted"*

**Discussion thread:** [here](#)

**Vote thread:** [here](#)

**JIRA:** [here](#)

Please keep the discussion on the mailing list rather than commenting on the wiki (wiki discussions get unwieldy fast).

## Motivation

A new endpoint (**`GET /connectors/{connector}/tasks-config`**) was added to Kafka Connect's REST API to expose task configurations in [KIP-661](#). However, the original patch for Kafka Connect's REST API had already added an endpoint (**`GET /connectors/{connector}/tasks`**) to retrieve the list of a connector's tasks and their configurations (ref - <https://github.com/apache/kafka/pull/378> , <https://issues.apache.org/jira/browse/KAFKA-2369>) and this was missed in KIP-661. We can deprecate the endpoint added by KIP-661 in 3.7 (the next minor AK release) and remove it in 4.0 (the next major AK release) since it's redundant to have two separate endpoints to expose task configurations. Related discussions in [https://github.com/apache/kafka/pull/13424#discussion\\_r1144727886](https://github.com/apache/kafka/pull/13424#discussion_r1144727886) and <https://issues.apache.org/jira/browse/KAFKA-15377>.

## Public Interfaces

- **`GET /connectors/{connector}/tasks-config`** - this endpoint will be deprecated in 3.7 and removed in 4.0. A note will be added to the public documentation indicating that the endpoint is deprecated, Connect's OpenAPI spec will be updated to mark the endpoint as deprecated, and a warning log will also be emitted every time the endpoint is invoked.

## Proposed Changes

The **`GET /connectors/{connector}/tasks-config`** endpoint will be deprecated in 3.7 and removed in 4.0. A note will be added to the public documentation indicating that the endpoint is deprecated, Connect's OpenAPI spec will be updated to mark the endpoint as deprecated, and a warning log will also be emitted every time the endpoint is invoked.

## Compatibility, Deprecation, and Migration Plan

- The **`GET /connectors/{connector}/tasks-config`** endpoint will be deprecated in 3.7 and removed in 4.0
- Connect's embedded cluster for integration testing will be updated to use the **`GET /connectors/{connector}/tasks`** endpoint [here](#).
- Any users of the endpoint will need to migrate their usage to the **`GET /connectors/{connector}/tasks`** endpoint starting from 4.0. The response structures are slightly different (although the content is functionally identical) and that will be called out in the deprecation documentation and warning. Example responses for each of the two endpoints -

### GET /connectors/file-sink-test/tasks-config

```
{
  "file-sink-test-0": {
    "connector.class": "org.apache.kafka.connect.file.FileStreamSinkConnector",
    "file": "test.txt",
    "task.class": "org.apache.kafka.connect.file.FileStreamSinkTask",
    "topics": "test-topic",
    "tasks.max": "2",
    "name": "file-sink-test"
  },
  "file-sink-test-1": {
    "connector.class": "org.apache.kafka.connect.file.FileStreamSinkConnector",
    "file": "test.txt",
    "task.class": "org.apache.kafka.connect.file.FileStreamSinkTask",
    "topics": "test-topic",
    "tasks.max": "2",
    "name": "file-sink-test"
  }
}
```

### GET /connectors/file-sink-test/tasks

```
[
  {
    "id": {
      "connector": "file-sink-test",
      "task": 0
    },
    "config": {
      "connector.class": "org.apache.kafka.connect.file.FileStreamSinkConnector",
      "file": "test.txt",
      "task.class": "org.apache.kafka.connect.file.FileStreamSinkTask",
      "topics": "test-topic",
      "tasks.max": "2",
      "name": "file-sink-test"
    }
  },
  {
    "id": {
      "connector": "file-sink-test",
      "task": 1
    },
    "config": {
      "connector.class": "org.apache.kafka.connect.file.FileStreamSinkConnector",
      "file": "test.txt",
      "task.class": "org.apache.kafka.connect.file.FileStreamSinkTask",
      "topics": "test-topic",
      "tasks.max": "2",
      "name": "file-sink-test"
    }
  }
]
```

## Rejected Alternatives

1. Deprecate and remove the **GET /connectors/{connector}/tasks** endpoint instead. Rejected because -
  - This endpoint is much older and has existed ever since Kafka Connect (or Copycat as it was known back then) was released (in 0.9.0.0) which means it likely has much wider adoption.
2. Continue to support both the endpoints. Rejected because -

- As evidenced in



Unable to render Jira issues macro, execution error.

, it becomes a bit of a maintenance burden to

have two different endpoints for the same purpose. All contributors and maintainers may not even be aware about the existence of both the endpoints and it'd be difficult to diligently ensure that any fixes or changes are applied across both the endpoints.