

# Databricks integration for Alchemer survey

## Overview

[Databricks](#) is a unified data analytics platform used by organizations to store, process, and analyze large-scale data.

The Alchemer integration with Databricks supports Get data, Update row, Upsert row and Push to table. The Alchemer Databricks integration allows Alchemer to use information from Databricks to personalize surveys, enrich survey data, and update information in Databricks with survey response data.

## Common uses for the Alchemer Databricks integration

- Personalize invites and surveys with information in Databricks
- Use Databricks information in survey logic
- Automate data retrieval and updates between Alchemer and Databricks
- Reduce manual data entry and record maintenance
- Keep Databricks records synchronized with responses collected in Alchemer
- Push survey response data into Databricks tables for analytics and reporting

## What can the Alchemer Databricks integration do?

- [Get data](#)
- [Update row](#)
- [Upsert row](#)
- [Push to table](#)

## You will need

- Your Databricks client ID and secret for your service principal. [More details in the authentication how-to guide.](#)
- An Alchemer plan that includes integrations and the Integration Manager permission enabled.
  - [Contact us](#) if you are unsure if your plan includes integrations.

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## Setup Alchemer Databricks integration in

# surveys

## Databricks | Get data

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### You will need:

- Your Databricks client ID and secret for your service principal. [More details in the authentication how-to guide.](#)
- Survey fields containing a unique identifier for row

### Configure the action

1. Open your survey in [Survey builder](#).
2. Select **Add New: Action**.
3. In the Add Action modal, scroll to the **Integrations** section.
4. Select **Databricks**.
5. Select **Databricks | Get data**.
6. **Databricks | Authentication:** Select an existing authentication or [create a new authentication](#).
7. **Databricks | Choose warehouse:** Select the Databricks warehouse you would like to use from the dropdown to write the queries.
8. **Databricks | Choose catalog:** Select the Databricks catalog you would like to use from the dropdown.
9. **Databricks | Choose schema:** Select the Databricks schema you would like to use from the dropdown.
10. **Databricks | Choose table:** Select the Databricks table you would like to use from the dropdown.
11. **Databricks | Find row:** Select the Alchemer field containing the lookup value.
12. **Databricks | Get data back:** Select the Databricks fields you want returned to the survey. These can be used to personalize survey questions.
13. Save the action.

### Status codes

- 200: A single row was successfully found

- 201: Query ran successfully, but no rows were found
- 202: More than one row was found. The first row is used for the values returned to Alchemer
- 400: The external integration returned an error

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## Databricks | Update row

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### You will need:

- Your Databricks client ID and secret for your service principal. [More details in the authentication how-to guide.](#)
- Survey fields containing the identifier for the row

### Configure the action

1. Open your survey in [Survey builder](#).
2. Select **Add New: Action**.
3. In the Add Action modal, scroll to the **Integrations** section.
4. Select **Databricks**.
5. Select **Databricks | Update row**.
6. **Databricks | Authentication:** Select an existing authentication or [create a new authentication](#).
7. **Databricks | Choose warehouse:** Select the Databricks warehouse you would like to use from the dropdown to write the queries.
8. **Databricks | Choose catalog:** Select the Databricks catalog you would like to use from the dropdown.
9. **Databricks | Choose schema:** Select the Databricks schema you would like to use from the dropdown.
10. **Databricks | Choose table:** Select the Databricks table you would like to use from the dropdown.
11. **Databricks | Find row:** Select the Alchemer field containing the lookup value.  
Note: All matching rows will be updated, please ensure that your lookup value is unique if you wish to update one row.
12. **Databricks | Update row:** Choose the survey data you want to use to update a row in your Databricks table.

13. **Databricks | Get data back:** Select metadata fields (e.g. message, status code). These can be used to help debug your action setup.
14. Save the action

## Status codes

- 200: Successfully updated row
- 201: Query ran successfully. No rows updated
- 202: Multiple rows were found. X row(s) updated
- 400: The external integration returned an error

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# Databricks | Upsert row

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## You will need:

- Your Databricks [client ID and secret](#) for your service principal. [More details in the authentication how-to guide.](#)
- Survey fields containing the identifier for the row

## Configure the action

1. Open your survey in [Survey builder](#).
2. Select **Add New: Action**.
3. In the Add Action modal, scroll to the **Integrations** section.
4. Select **Databricks**.
5. Select **Databricks | Upsert row**.
6. **Databricks | Authentication:** Select an existing authentication or [create a new authentication](#).
7. **Databricks | Choose warehouse:** Select the Databricks warehouse you would like to use from the dropdown to write the queries.
8. **Databricks | Choose catalog:** Select the Databricks catalog you would like to use from the dropdown.
9. **Databricks | Choose schema:** Select the Databricks schema you would like to use from the dropdown.
10. **Databricks | Choose table:** Select the Databricks table you would like to use from the dropdown.

11. **Databricks | Find row:** Select the Alchemer field containing the lookup value.  
Note: All matching rows will be updated, please ensure that your lookup value is unique if you wish to update one row. If no matching rows are found a new row will be created.
12. **Databricks | Upsert row:** Choose the survey data you want to use to upsert a row in your Databricks table.
13. **Databricks | Get data back:** Select metadata fields (e.g. message, status code). These can be used to help debug your action setup.
14. Save the action.

## Status codes

- 200: Successfully inserted row.
- 201: Query ran successfully. No rows updated.
- 202: Successfully updated X row(s).
- 400: The external integration returned an error.

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# Databricks | Push to table

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## You will need:

- Your Databricks [client ID and secret](#) for your service principal. [More details in the authentication how-to guide.](#)
- Survey fields containing the identifier for the table

## Configure the action

1. Open your survey in [Survey builder](#).
2. Select **Add New: Action**.
3. In the Add Action modal, scroll to the **Integrations** section.
4. Select **Databricks**.
5. Select **Databricks | Push to table**.
6. **Databricks | Authentication:** Select an existing authentication or [create a new authentication](#).
7. **Databricks | Choose warehouse:** Select the Databricks warehouse you would like to use from the dropdown to write the queries.
8. **Databricks | Choose catalog:** Select the Databricks catalog you would like to use from the

dropdown.

9. **Databricks | Choose schema:** Select the Databricks schema you would like to use from the dropdown.
10. **Databricks | Choose table:** Select the Databricks table you would like to use from the dropdown.
11. **Databricks | Insert row into table:** Choose the survey data you want to use to insert a row into your Databricks table.
12. **Databricks | Get data back:** Select metadata fields (e.g. message, status code). These can be used to help debug your action setup.
13. Save the action.

## Status codes

- 200: Successfully inserted row.
- 400: The external integration returned an error.

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# Testing and Validation

## How to test

- Submit a survey response that triggers the integration action.
- Confirm the expected update or retrieval occurs in Databricks.
- Use metadata for verification and debugging.

## How to verify results

- Check the impacted record in Databricks.
- Ensure retrieved or updated values match expectations.

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# Monitoring Integration Activity

## Where to find logs

- Go to Results → Individual Responses.
- Select the response you want to inspect.
- Open the Action Log tab.

## What logs display

- Success or failure status
- Timestamp
- Input and output values
- Returned status codes from Databricks

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## Troubleshooting

### Authentication issues

- Incorrect or expired credentials
- Missing permissions in Databricks

### Lookup failures

- Invalid identifier values
- No matching records

### Mapping errors

- Unsupported or invalid fields
- Incorrect formatting

### API errors

- Validation issues
- Endpoint restrictions

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## FAQs

### What permissions do I need?

Integration Manager in Alchemer and API permissions in Databricks. Databricks requires a service principal with a [client ID and secret](#), along with permissions enabled for that service principal. [More details in the authentication how-to guide](#).

### When does the integration run?

In real time when a survey response is submitted.

### Can I use multiple Databricks actions in one survey?

Yes. Actions can work independently or together.

### Why isn't my data updating?

Check the Action Log for lookup issues, mapping problems, or API errors.

### What if I need additional functionality?

Contact Alchemer Support for enhancement requests.

Related Articles

