API Connections Create v4

✅ This is the latest version of the APIs.

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Create the specified connection.

ℹ️ **NOTE:** In this release, you cannot create Redshift or SQL DW connections via the API. Please create these connections through the application. This known issue will be fixed in a future release.

For more information on connections, see *Connection Types*.

Version: `v4`

Required Permissions

ℹ️ **NOTE:** Each request to the Trifacta® platform must include authentication credentials. See *https://api.trifacta.com/ee/6.0/index.html#section/Authentication*.

Request

Request Type: `POST`

Endpoint:

```
/v4/connections/
```

Request Body - Relational Connection:

For relational connections, the request body should look like the following. All properties are required unless noted.

ℹ️ **NOTE:** Relational connections require the creation and installation of an encryption key file on the Trifacta node. This file must be present before the connection is created. See *Create Encryption Key File*.

This example creates a SQL Server connection of `basic` credentials type. A valid username/password combination must be specified in the `credentials` property.

```
{
    "connectParams": {
        "vendor": "sqlserver",
        "vendorName": "sqlserver",
        "host": "sqlserver.example.com",
        "port": "1433"
    },
    "host": "sqlserver.example.com",
    "port": 1433,
    "vendor": "sqlserver",
    "params": {
        "connectStrOpts": ""
    },
    "ssl": false,
    "vendorName": "sqlserver",
    "name": "sqlserver_test2",
    "description": "",
    "type": "jdbc",
    "isGlobal": false,
    "credentialType": "basic",
    "credentialsShared": true,
    "disableTypeInference": false,
    "credentials": [
        {
            "username": "<username>",
            "password": "<password>"
        }
    ]
}
```

Property	Description
name	Display name of the connection
description	(Optional) Display description for the connection
vendorName	Set this value to `sqlserver`.
type	For more information on the value to insert for the connection, see *Connection Types*.
isGlobal	(Optional) If `true`, the connection is available to all users. The default is `false`.
host	Host name of the relational server to which to connect.
port	Port number for the relational server. The default value varies between database vendors. For more information, please see the documentation provided with your database distribution.
vendor	Set this value to `sqlserver`.
params	(Optional) Set of JSON parameters that are passed to the database when initializing the connection. Depending on the database vendor, you may be required to submit via this parameter the name of the default database. You can also pass in optional parameters through the `ConnecStrOpts` parameter. For more information, see *CLI for Connections*.
ssl	(Optional) If set to `true`, the connection is made over SSL. The default is `false`. ⓘ **NOTE:** If you connect over SSL, you must modify the hostname value to use HTTPS. ⓘ **NOTE:** SSL connections to SQL Server are not supported.

credentialT ype	Set this value to one of the following: • `basic` - Simple username/password to be provided in the `credentials` property. • `conf` - Use the connection credentials stored in `trifacta-conf.json`. • `kerberos delegate` - Connection uses the Kerberos-delegated principal to connect to the database. No credentials are submitted as part of the connection definition. This method requires additional configuration. See *Enable SSO for Relational Connections*. • `custom` - Connection credentials are specified in the `params` property, such as using key-value parameters to specify access credentials.
credentials Shared	If the connection is a global connection, the credentials to connect can be shared with other users when this property is `true`. Otherwise, other users must provide their own credentials.
disableTyp eInference	By default, the Trifacta platform attempts to infer types when data is imported. For schematized sources, you may prefer to disable type inference, instead using the types provided by the source. When this setting is `true`, initial type inference by the platform is disabled for all data read through this connection.
credentials	(Optional) If `credentialType=basic`, this property must contain the username and password to use to connect to the relational source.

Request Body - Hive Connection:

You can create create only one public connection to Hive.

```
{
    "connectParams": {
        "vendor": "hive",
        "vendorName": "hive",
        "host": "hadoop",
        "port": "10000",
        "jdbc": "hive2",
        "defaultDatabase": "default"
    },
    "id": 1,
    "host": "hadoop",
    "port": 10000,
    "vendor": "hive",
    "params": {
        "jdbc": "hive2",
        "connectStringOptions": "",
        "defaultDatabase": "default"
    },
    "ssl": false,
    "vendorName": "hive",
    "name": "hive",
    "description": "Hive connection",
    "type": "jdbc",
    "isGlobal": true,
    "credentialType": "conf",
    "credentialsShared": true,
    "disableTypeInference": false,
    "credentials": []
}
```

The following property values are specific to Hive connections.

Property	Description
`host`	Set this value to `hadoop` to integrate with the Hive instance for the Hadoop cluster to which the Trifacta platform is connected.
`port`	By default, this value should be `10000`.

| params | Connection parameters for the Hive instance.

> (i) **NOTE:** The following parameter entry is required for Hive:
>
> ```
>         "jdbc": "hive2",
> ```
>
> Others are optional. |
|---|---|
| type | Set this value to `jdbc`. |
| isGlobal | (i) **NOTE:** For Hive connections, this value must be set to `true`. |
| credentialTy pe | Set this value to `conf`. |

For more information, see *Configure for Hive*.

Request Body - Redshift Connection:

```
{
    "connectParams": {
        "vendor": "redshift",
        "vendorName": "redshift",
        "host": "redshift.example.com",
        "port": "5439",
        "defaultDatabase": "dev",
        "extraLoadParams": "BLANKSASNULL EMPTYASNULL TRIMBLANKS TRUNCATECOLUMNS"
    },
    "host": "redshift.example.com",
    "port": 5439,
    "vendor": "redshift",
    "params": {
        "connectStrOpts": "",
        "defaultDatabase": "dev",
        "extraLoadParams": "BLANKSASNULL EMPTYASNULL TRIMBLANKS TRUNCATECOLUMNS"
    },
    "ssl": false,
    "vendorName": "redshift",
    "name": "redshift2",
    "description": "Redshift connection",
    "type": "jdbc",
    "isGlobal": true,
    "credentialType": "custom",
    "credentialsShared": true,
    "disableTypeInference": false,
    "credentials": [
      {"key":"user","value":"<username>"},
      {"key":"password","value":"<password>"},
      {"key":"iamRoleArn","value":"<IAM_role_ARN>"}
    ]
}
```

The following property values are specific to Redshift connections.

Property	Description
connect Params	A default database value is required.

The `extraLoadParams` value is used when you publish results to Redshift. For more information on these values, see *http://docs.aws.amazon.com/redshift/latest/dg/copy-parameters-data-conversion.html*. |

`type`	Set this value to `jdbc`.
`credentialType`	Set this value to `custom`. Credentials are specified below.
`credentials`	`username` and `password` must be specified in this key-value format, although the value for either can be an empty string. ⓘ **NOTE:** `iamRoleArn` is optional. For more information, see *Configure for EC2 Role-Based Authentication*.

For more information on parameters and credentials, see *Create Redshift Connections*.

Response

Response Status Code - Success: `201 - Created`

Response Body Example:

```
{
    "connectParams": {
        "vendor": "sqlserver",
        "vendorName": "sqlserver",
        "host": "sqlserver.example.com",
        "port": "1433"
    },
    "id": 26,
    "host": "sqlserver.example.com",
    "port": 1433,
    "vendor": "sqlserver",
    "params": {
        "connectStrOpts": ""
    },
    "ssl": false,
    "vendorName": "sqlserver",
    "name": "sqlserver_test2",
    "description": "",
    "type": "jdbc",
    "isGlobal": false,
    "credentialType": "basic",
    "credentialsShared": true,
    "uuid": "fa7e06c0-0143-11e8-8faf-27c0392328c5",
    "disableTypeInference": false,
    "createdAt": "2018-01-24T20:20:11.181Z",
    "updatedAt": "2018-01-24T20:20:11.181Z",
    "credentials": [
        {
            "username": "<username>"
        }
    ],
    "creator": {
        "id": 1
    },
    "updater": {
        "id": 1
    }
}
```

Reference

For more information on the response body properties, see *API Connections Get v4*.