

Databases API Reference - Docs - Appwrite

The Databases service allows you to create structured collections of documents, query and filter lists of documents, and manage an advanced set of read and write access permissions.

All data returned by the Databases service are represented as structured JSON documents.

The Databases service can contain multiple databases, each database can contain multiple collections. A collection is a group of similarly structured documents. The accepted structure of documents is defined by [collection attributes](#). The collection attributes help you ensure all your user-submitted data is validated and stored according to the collection structure.

Using Appwrite permissions architecture, you can assign read or write access to each collection or document in your project for either a specific user, team, user role, or even grant it with public access (`any`). You can learn more about [how Appwrite handles permissions and access control](#).

`https://<REGION>.cloud.appwrite.io/v1`

Create database

▾ Request

databaseId string

required

Unique Id. Choose a custom ID or generate a random ID with `ID.unique()`. Valid chars are a-z, A-Z, 0-9, period, hyphen, and underscore. Can't start with a special char. Max length is 36 chars.

name string

required

Database name. Max length: 128 chars.

enabled boolean

Is the database enabled? When set to 'disabled', users cannot access the database but Server SDKs with an API key can still read and write to the database. No data is lost when this is toggled.

▸ Response

```
POST /v1/databases HTTP/1.1
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

X-Appwrite-Response-Format: 1.6.0

X-Appwrite-Project: <YOUR_PROJECT_ID>

X-Appwrite-Key: <YOUR_API_KEY>

```
{
  "databaseId": "<DATABASE_ID>",
  "name": "<NAME>",
  "enabled": false
}
```

Get database

Get a database by its unique ID. This endpoint response returns a JSON object with the database metadata.

▼ Request

databaseId string

required

Database ID.

► Response

GET /databases/{databaseId}

GET /v1/databases/{databaseId} HTTP/1.1

Host: cloud.appwrite.io

X-Appwrite-Response-Format: 1.6.0

X-Appwrite-Project: <YOUR_PROJECT_ID>

X-Appwrite-Key: <YOUR_API_KEY>

List databases

Get a list of all databases from the current Appwrite project. You can use the search parameter to filter your results.

▾ Request

queries array

Array of query strings generated using the Query class provided by the SDK. [Learn more about queries](#). Maximum of 100 queries are allowed, each 4096 characters long. You may filter on the following attributes: name

search string

Search term to filter your list results. Max length: 256 chars.

▸ Response

GET /v1/databases HTTP/1.1

Host: cloud.appwrite.io

X-Appwrite-Response-Format: 1.6.0

X-Appwrite-Project: <YOUR_PROJECT_ID>

X-Appwrite-Key: <YOUR_API_KEY>

Update database

Update a database by its unique ID.

▾ Request

databaseId string

required

Database ID.

name string

required

Database name. Max length: 128 chars.

enabled boolean

Is database enabled? When set to 'disabled', users cannot access the database but Server SDKs with an API key can still read and write to the database. No data is lost when this is toggled.

▸ Response

```
PUT /databases/{databaseId}
```

```
PUT /v1/databases/{databaseId} HTTP/1.1
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

X-Appwrite-Response-Format: 1.6.0

X-Appwrite-Project: <YOUR_PROJECT_ID>

X-Appwrite-Key: <YOUR_API_KEY>

```
{  
  "name": "<NAME>",  
  "enabled": false  
}
```

Delete database

Delete a database by its unique ID. Only API keys with with databases.write scope can delete a database.

▼ Request

databaseId string

required

Database ID.

► Response

```
DELETE /databases/{databaseId}
```

```
DELETE /v1/databases/{databaseId} HTTP/1.1
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

X-Appwrite-Project: <YOUR_PROJECT_ID>

X-Appwrite-Key: <YOUR_API_KEY>

Create collection

Create a new Collection. Before using this route, you should create a new database resource using either a [server integration](#) API or directly from your database console.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Unique Id. Choose a custom ID or generate a random ID with `ID.unique()`. Valid chars are a-z, A-Z, 0-9, period, hyphen, and underscore. Can't start with a special char. Max length is 36 chars.

name string

required

Collection name. Max length: 128 chars.

permissions array

An array of permissions strings. By default, no user is granted with any permissions. [Learn more about permissions.](#)

documentSecurity boolean

Enables configuring permissions for individual documents. A user needs one of document or collection level permissions to access a document. [Learn more about permissions.](#)

enabled boolean

Is collection enabled? When set to 'disabled', users cannot access the collection but Server SDKs with and API key can still read and write to the collection. No data is lost when this is toggled.

► Response

```
POST /databases/{databaseId}/collections
```

```
POST /v1/databases/{databaseId}/collections HTTP/1.1
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```



```
{
  "collectionId": "<COLLECTION_ID>",
  "name": "<NAME>",
  "permissions": [ "read(\"any\")" ],
  "documentSecurity": false,
  "enabled": false
}
```

Create index

Creates an index on the attributes listed. Your index should include all the attributes you will query in a single request. Attributes can be `key`, `fulltext`, and `unique`.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Index Key.

type string

required

Index type.

attributes array

required

Array of attributes to index. Maximum of 100 attributes are allowed, each 32 characters long.

orders array

Array of index orders. Maximum of 100 orders are allowed.

► Response

```
POST /databases/{databaseId}/collections/{collectionId}/index
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/in
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{  
  "key": ,
```

```
"type": "key",  
"attributes": [],  
"orders": []  
}
```

Get collection

Get a collection by its unique ID. This endpoint response returns a JSON object with the collection metadata.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID.

► Response

```
GET /databases/{databaseId}/collections/{collectionId}
```

```
GET /v1/databases/{databaseId}/collections/{collectionId} HTTP/1.1  
Host: cloud.appwrite.io
```

X-Appwrite-Response-Format: 1.6.0

X-Appwrite-Project: <YOUR_PROJECT_ID>

X-Appwrite-Key: <YOUR_API_KEY>

List collections

Get a list of all collections that belong to the provided databaseld. You can use the search parameter to filter your results.

▼ Request

databaseld string

required

Database ID.

queries array

Array of query strings generated using the Query class provided by the SDK. [Learn more about queries](#). Maximum of 100 queries are allowed, each 4096 characters long. You may filter on the following attributes: name, enabled, documentSecurity

search string

Search term to filter your list results. Max length: 256 chars.

► Response

```
GET /databases/{databaseId}/collections
```

```
GET /v1/databases/{databaseId}/collections HTTP/1.1
```

```
Host: cloud.appwrite.io
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

Update collection

Update a collection by its unique ID.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID.

name string

required

Collection name. Max length: 128 chars.

permissions array

An array of permission strings. By default, the current permissions are inherited. [Learn more about permissions.](#)

documentSecurity boolean

Enables configuring permissions for individual documents. A user needs one of document or collection level permissions to access a document. [Learn more about permissions.](#)

enabled boolean

Is collection enabled? When set to 'disabled', users cannot access the collection but Server SDKs with and API key can still read and write to the collection. No data is lost when this is toggled.

► Response

```
PUT /databases/{databaseId}/collections/{collectionId}
```

```
PUT /v1/databases/{databaseId}/collections/{collectionId} HTTP
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
```

```
"name": "<NAME>",
"permissions": ["read(\"any\")"],
"documentSecurity": false,
"enabled": false
}
```

Delete collection

Delete a collection by its unique ID. Only users with write permissions have access to delete this resource.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID.

► Response

```
DELETE /databases/{databaseId}/collections/{collectionId}
```

```
DELETE /v1/databases/{databaseId}/collections/{collectionId}
```

Host: cloud.appwrite.io

Content-Type: application/json

X-Appwrite-Response-Format: 1.6.0

X-Appwrite-Project: <YOUR_PROJECT_ID>

X-Appwrite-Key: <YOUR_API_KEY>

Create boolean attribute

Create a boolean attribute.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default boolean

Default value for attribute when not provided. Cannot be set when attribute is required.

array boolean

Is attribute an array?

► Response

```
POST /databases/{databaseId}/collections/{collectionId}/attri
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/at
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "key": ,
  "required": false,
  "default": false,
  "array": false
}
```

Create datetime attribute

Create a date time attribute according to the ISO 8601 standard.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default string

Default value for the attribute in [ISO 8601](#) format. Cannot be set when attribute is required.

array boolean

Is attribute an array?

▸ Response

```
POST /databases/{databaseId}/collections/{collectionId}/attri
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/at
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "key": ,
  "required": false,
  "default": ,
  "array": false
}
```

Create email attribute

Create an email attribute.

▾ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default string

Default value for attribute when not provided. Cannot be set when attribute is required.

array boolean

Is attribute an array?

▸ Response

```
POST /databases/{databaseId}/collections/{collectionId}/attri
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/at
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{  
  "key": ,  
  "required": false,  
  "default": "email@example.com",  
  "array": false  
}
```

Create enum attribute

Create an enumeration attribute. The `elements` param acts as a white-list of accepted values for this attribute.

▾ Request

`databaseId` string

`required`

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

elements array

required

Array of elements in enumerated type. Uses length of longest element to determine size. Maximum of 100 elements are allowed, each 255 characters long.

required boolean

required

Is attribute required?

default string

Default value for attribute when not provided. Cannot be set when attribute is required.

array boolean

Is attribute an array?

► Response

```
POST /databases/{databaseId}/collections/{collectionId}/attri
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/at
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "key": ,
  "elements": [],
  "required": false,
  "default": "<DEFAULT>",
  "array": false
}
```

Create float attribute

Create a float attribute. Optionally, minimum and maximum values can be provided.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

min number

Minimum value to enforce on new documents

max number

Maximum value to enforce on new documents

default number

Default value for attribute when not provided. Cannot be

set when attribute is required.

array boolean

Is attribute an array?

► Response

```
POST /databases/{databaseId}/collections/{collectionId}/attri
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/at
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "key": ,
  "required": false,
  "min": 0,
  "max": 0,
  "default": 0,
  "array": false
}
```

Create integer attribute

Create an integer attribute. Optionally, minimum and maximum values can be provided.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

min integer

Minimum value to enforce on new documents

max integer

Maximum value to enforce on new documents

default integer

Default value for attribute when not provided. Cannot be set when attribute is required.

array boolean

Is attribute an array?

▸ Response

```
POST /databases/{databaseId}/collections/{collectionId}/attri
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/at
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "key": ,
  "required": false,
  "min": 0,
  "max": 0,
  "default": 0,
  "array": false
}
```

Create IP address attribute

Create IP address attribute.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default string

Default value for attribute when not provided. Cannot be set when attribute is required.

array boolean

Is attribute an array?

▸ Response

```
POST /databases/{databaseId}/collections/{collectionId}/attri
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/at
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{  
  "key": ,  
  "required": false,  
  "default": ,  
  "array": false  
}
```

Create relationship attribute

Create relationship attribute. [Learn more about relationship attributes.](#)

▾ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

relatedCollectionId string

required

Related Collection ID. You can create a new collection using the Database service [server integration](#).

type string

required

Relation type

twoWay boolean

Is Two Way?

key string

Attribute Key.

twoWayKey string

Two Way Attribute Key.

onDelete string

Constraints option

► Response

```
POST /databases/{databaseId}/collections/{collectionId}/attri
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/at
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "relatedCollectionId": "<RELATED_COLLECTION_ID>",
  "type": "oneToOne",
  "twoWay": false,
  "key": ,
  "twoWayKey": ,
  "onDelete": "cascade"
}
```

Create string attribute

Create a string attribute.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

size integer

required

Attribute size for text attributes, in number of characters.

required boolean

required

Is attribute required?

default string

Default value for attribute when not provided. Cannot be set when attribute is required.

array boolean

Is attribute an array?

encrypt boolean

Toggle encryption for the attribute. Encryption enhances security by not storing any plain text values in the database. However, encrypted attributes cannot be queried.

► Response

```
POST /databases/{databaseId}/collections/{collectionId}/attri
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/at
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "key": ,
  "size": 1,
  "required": false,
  "default": "<DEFAULT>",
  "array": false,
  "encrypt": false
```

}

Create URL attribute

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default string

Default value for attribute when not provided. Cannot be set when attribute is required.

array boolean

Is attribute an array?

▸ Response

```
POST /databases/{databaseId}/collections/{collectionId}/attri
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/at
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "key": ,
  "required": false,
  "default": "https://example.com",
  "array": false
}
```

Get attribute

▸ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

► Response

```
GET /databases/{databaseId}/collections/{collectionId}/attrib
```

```
GET /v1/databases/{databaseId}/collections/{collectionId}/att
```

```
Host: cloud.appwrite.io
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

List attributes

List attributes in the collection.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

queries array

Array of query strings generated using the Query class provided by the SDK. [Learn more about queries](#). Maximum of 100 queries are allowed, each 4096 characters long. You may filter on the following attributes: key, type, size, required, array, status, error

► Response

```
GET /databases/{databaseId}/collections/{collectionId}/attrib
```

```
GET /v1/databases/{databaseId}/collections/{collectionId}/att
```

```
Host: cloud.appwrite.io
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

X-Appwrite-Key: <YOUR_API_KEY>

Update boolean attribute

Update a boolean attribute. Changing the `default` value will not update already existing documents.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default boolean

required

Default value for attribute when not provided. Cannot be set when attribute is required.

newKey string

New attribute key.

▸ Response

```
PATCH /databases/{databaseId}/collections/{collectionId}/attr
```

```
PATCH /v1/databases/{databaseId}/collections/{collectionId}/a
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{  
  "required": false,  
  "default": false,  
  "newKey":  
}
```

Update dateTime attribute

Update a date time attribute. Changing the `default` value will not update already existing documents.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default string

required

Default value for attribute when not provided. Cannot be set when attribute is required.

newKey string

New attribute key.

▸ Response

```
PATCH /databases/{databaseId}/collections/{collectionId}/attr
```

```
PATCH /v1/databases/{databaseId}/collections/{collectionId}/a
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "required": false,
  "default": ,
  "newKey":
}
```

Update email attribute

Update an email attribute. Changing the `default` value will not update already existing documents.

▾ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default string

required

Default value for attribute when not provided. Cannot be set when attribute is required.

newKey string

New attribute key.

▸ Response

```
PATCH /databases/{databaseId}/collections/{collectionId}/attr
```

```
PATCH /v1/databases/{databaseId}/collections/{collectionId}/a
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "required": false,
  "default": "email@example.com",
  "newKey":
}
```

Update enum attribute

Update an enum attribute. Changing the `default` value will not update already existing documents.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

elements array

required

Array of elements in enumerated type. Uses length of longest element to determine size. Maximum of 100 elements are allowed, each 255 characters long.

required boolean

required

Is attribute required?

default string

required

Default value for attribute when not provided. Cannot be

set when attribute is required.

newKey string

New attribute key.

► Response

```
PATCH /databases/{databaseId}/collections/{collectionId}/attr
```

```
PATCH /v1/databases/{databaseId}/collections/{collectionId}/a
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "elements": [],
  "required": false,
  "default": "<DEFAULT>",
  "newKey":
}
```

Update float attribute

Update a float attribute. Changing the `default` value will not update already existing documents.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default number

required

Default value for attribute when not provided. Cannot be set when attribute is required.

min number

Minimum value to enforce on new documents

max number

Maximum value to enforce on new documents

newKey string

New attribute key.

► Response

```
PATCH /databases/{databaseId}/collections/{collectionId}/attr
```

```
PATCH /v1/databases/{databaseId}/collections/{collectionId}/a
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{  
  "required": false,  
  "min": 0,  
  "max": 0,  
  "default": 0,  
  "newKey":  
}
```

Update integer attribute

Update an integer attribute. Changing the `default` value will not update already existing documents.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default integer

required

Default value for attribute when not provided. Cannot be set when attribute is required.

min integer

Minimum value to enforce on new documents

max integer

Maximum value to enforce on new documents

newKey string

New attribute key.

► Response

```
PATCH /databases/{databaseId}/collections/{collectionId}/attr
```

```
PATCH /v1/databases/{databaseId}/collections/{collectionId}/a
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "required": false,
  "min": 0,
  "max": 0,
  "default": 0,
  "newKey":
```

}

Update IP address attribute

Update an ip attribute. Changing the `default` value will not update already existing documents.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default string

required

Default value for attribute when not provided. Cannot be set when attribute is required.

newKey string

New attribute key.

► Response

```
PATCH /databases/{databaseId}/collections/{collectionId}/attr
```

```
PATCH /v1/databases/{databaseId}/collections/{collectionId}/a
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "required": false,
  "default": ,
  "newKey":
}
```

Update relationship attribute

Update relationship attribute. [Learn more about relationship attributes](#).

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

onDelete string

Constraints option

newKey string

New attribute key.

▸ Response

```
PATCH /databases/{databaseId}/collections/{collectionId}/attr
```

```
PATCH /v1/databases/{databaseId}/collections/{collectionId}/a
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{  
  "onDelete": "cascade",  
  "newKey":  
}
```

Update string attribute

Update a string attribute. Changing the `default` value will not update already existing documents.

▾ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default string

required

Default value for attribute when not provided. Cannot be set when attribute is required.

size integer

Maximum size of the string attribute.

newKey string

New attribute key.

► Response

```
PATCH /databases/{databaseId}/collections/{collectionId}/attr

PATCH /v1/databases/{databaseId}/collections/{collectionId}/a
Host: cloud.appwrite.io
Content-Type: application/json
X-Appwrite-Response-Format: 1.6.0
X-Appwrite-Project: <YOUR_PROJECT_ID>
X-Appwrite-Key: <YOUR_API_KEY>

{
  "required": false,
  "default": "<DEFAULT>",
  "size": 1,
  "newKey":
}
```

Update URL attribute

Update an url attribute. Changing the `default` value will not update already existing documents.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

required boolean

required

Is attribute required?

default string

required

Default value for attribute when not provided. Cannot be set when attribute is required.

newKey string

New attribute key.

► Response

PATCH /databases/{databaseId}/collections/{collectionId}/attr


```
PATCH /v1/databases/{databaseId}/collections/{collectionId}/a
Host: cloud.appwrite.io
Content-Type: application/json
X-Appwrite-Response-Format: 1.6.0
X-Appwrite-Project: <YOUR_PROJECT_ID>
X-Appwrite-Key: <YOUR_API_KEY>
```

```
{
  "required": false,
  "default": "https://example.com",
  "newKey":
}
```

Delete attribute

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Attribute Key.

▸ Response

```
DELETE /databases/{databaseId}/collections/{collectionId}/att
```

```
DELETE /v1/databases/{databaseId}/collections/{collectionId}/
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

Get index

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Index Key.

► Response

```
GET /databases/{databaseId}/collections/{collectionId}/indexes
```

```
GET /v1/databases/{databaseId}/collections/{collectionId}/indexes
```

```
Host: cloud.appwrite.io
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

List indexes

List indexes in the collection.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

queries array

Array of query strings generated using the Query class provided by the SDK. [Learn more about queries](#). Maximum of 100 queries are allowed, each 4096 characters long. You may filter on the following attributes: key, type, status, attributes, error

► Response

```
GET /databases/{databaseId}/collections/{collectionId}/index
```

```
GET /v1/databases/{databaseId}/collections/{collectionId}/index
```

```
Host: cloud.appwrite.io
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

Delete index

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

key string

required

Index Key.

► Response

```
DELETE /databases/{databaseId}/collections/{collectionId}/ind
```

```
DELETE /v1/databases/{databaseId}/collections/{collectionId}/
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

Create document

Create a new Document. Before using this route, you should create a new collection resource using either a [server integration](#) API or directly from your database console.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#). Make sure to define attributes before creating documents.

documentId string

required

Document ID. Choose a custom ID or generate a random ID with `ID.unique()`. Valid chars are a-z, A-Z, 0-9, period, hyphen, and underscore. Can't start with a special char. Max length is 36 chars.

data object

required

Document data as JSON object.

permissions array

An array of permissions strings. By default, only the current user is granted all permissions. [Learn more about permissions.](#)

- Response
- Rate limits

```
POST /databases/{databaseId}/collections/{collectionId}/docum
```

```
POST /v1/databases/{databaseId}/collections/{collectionId}/do
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Session:
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
X-Appwrite-JWT: <YOUR_JWT>
```

```
{
  "documentId": "<DOCUMENT_ID>",
  "data": {},
  "permissions": [ "read(\"any\")" ]
}
```

Get document

Get a document by its unique ID. This endpoint response returns a JSON object with the document data.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

documentId string

required

Document ID.

queries array

Array of query strings generated using the Query class provided by the SDK. [Learn more about queries](#). Maximum of 100 queries are allowed, each 4096 characters long.

► Response

```
GET /databases/{databaseId}/collections/{collectionId}/docume
```

```
GET /v1/databases/{databaseId}/collections/{collectionId}/doc
```


Host: cloud.appwrite.io

X-Appwrite-Response-Format: 1.6.0

X-Appwrite-Project: <YOUR_PROJECT_ID>

X-Appwrite-Session:

X-Appwrite-Key: <YOUR_API_KEY>

X-Appwrite-JWT: <YOUR_JWT>

List documents

Get a list of all the user's documents in a given collection. You can use the query params to filter your results.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

queries array

Array of query strings generated using the Query class provided by the SDK. [Learn more about queries](#). Maximum of 100 queries are allowed, each 4096 characters long.

▼ Response

```
GET /databases/{databaseId}/collections/{collectionId}/docume
```

```
GET /v1/databases/{databaseId}/collections/{collectionId}/doc
```

```
Host: cloud.appwrite.io
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Session:
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
X-Appwrite-JWT: <YOUR_JWT>
```

Update document

Update a document by its unique ID. Using the patch method you can pass only specific fields that will get updated.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID.

documentId string

required

Document ID.

data object

Document data as JSON object. Include only attribute and value pairs to be updated.

permissions array

An array of permissions strings. By default, the current permissions are inherited. [Learn more about permissions.](#)

▸ Response

▸ Rate limits

```
PATCH /databases/{databaseId}/collections/{collectionId}/docu
```

```
PATCH /v1/databases/{databaseId}/collections/{collectionId}/d
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Session:
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
X-Appwrite-JWT: <YOUR_JWT>
```

```
{
```

```
"data": {},  
"permissions": [ "read(\"any\")" ]  
}
```

Delete document

Delete a document by its unique ID.

▼ Request

databaseId string

required

Database ID.

collectionId string

required

Collection ID. You can create a new collection using the Database service [server integration](#).

documentId string

required

Document ID.

► Response

► Rate limits

```
DELETE /databases/{databaseId}/collections/{collectionId}/doc
```

```
DELETE /v1/databases/{databaseId}/collections/{collectionId}/
```

```
Host: cloud.appwrite.io
```

```
Content-Type: application/json
```

```
X-Appwrite-Response-Format: 1.6.0
```

```
X-Appwrite-Project: <YOUR_PROJECT_ID>
```

```
X-Appwrite-Session:
```

```
X-Appwrite-Key: <YOUR_API_KEY>
```

```
X-Appwrite-JWT: <YOUR_JWT>
```