

Working with Admin APIs

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Enabling admin API support

By default, admin API URL support is disabled CDP Data Visualization. A platform administrator can enable this support, at the level of individual data types, through site-specific settings.

Procedure

1. Open Site Settings
2. Scroll to Advanced Settings at the bottom of the page.
3. To enable specific data types, include them on the assignment line, see the example below.

Option

`ADMIN_API_URL_LIST = ['visuals', 'datasets']` To only enable visuals and datasets.

`ADMIN_API_URL_LIST = ['visuals', 'datasets', 'connections', 'users', 'groups', 'roles', 'segments', 'filterassociations']` To enable all data type support, you can either list them all in the text box.

`ADMIN_API_URL_LIST = ['*']` Or use the wildcard to specify all options.

4. Click Save

Demo admin API

This demo page can be used to view how network requests are formed for accessing the CDP Data Visualization admin APIs.

Procedure

1. Open Site Settings
2. Scroll to Advanced Settings at the bottom of the page.
3. Add the following:

```
ADMIN_API_DEMO_LIST = ['visuals', 'datasets', 'connections', 'users', 'groups', 'roles', 'segments', 'workspaces', 'filterassociations']
```

4. Click Save

Results

Once enabled, the a page will be available on [domain]/arc/apps/apidemo.

Setting up a session

CDP Data Visualization Admin API supports two alternatives for setting up a session: standard login access and APIKey access.

Standard login access

To establish a session with username/password login, use the following code:

```
username = "" #(user name as obtained from external source)
```

```
password = "" #(password as obtained from external source)
session = requests.session()
response = session.get(login_url)
session.headers['referer'] = response.url
payload = {'username':username, 'password':password, 'csrfmiddlewaretoken':
session.cookies['arccsrftoken']}
session.post(login_url, data = payload)
```



Note: The login URL has the form [http|https]://host:port/arc/apps/login.

APIKey access

To establish a session through the Cloudera API Key system and avoid the login process, use the following code:

```
apikey = (apikey string)
session = requests.session()
session.headers['AUTHORIZATION'] = 'apikey %s' % apikey
```

In this approach, the client code must obtain the DataViz access key through a client-controlled mechanism, then add the APIKey to the request header and avoid explicit login.

Fetch data from all datasets in the system

After setting up a session, you can fetch the entire data from all datasets in the system, by using the following code:

```
response = session.get(api_url + 'datasets?detail=1')
datasets = response.json()
```



Note: The API URL has the form [http|https]://host:port/arc/adminapi/version. Use the URL option 'detail=true' to fetch all information in the GET call.