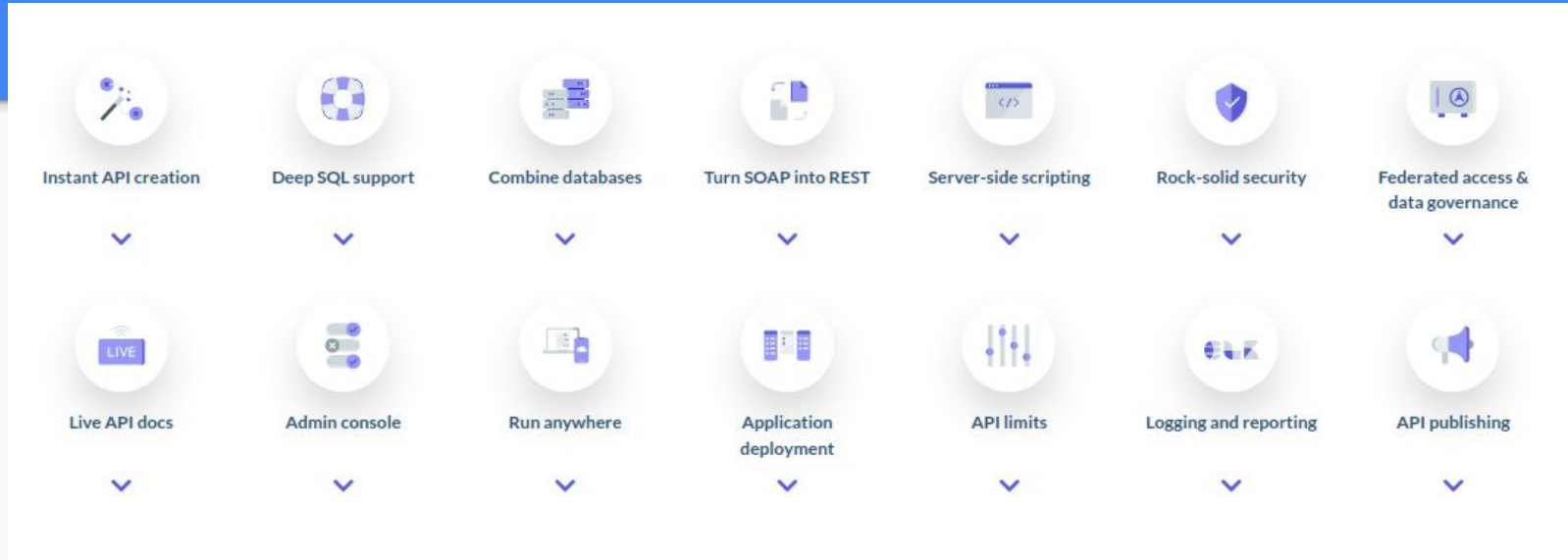# DreamFactory demo

https://www.dreamfactory.com/

Anthony Mak

What is DreamFactory?

- Create APIs to data sources automatically in minutes
  - Only need to specify credentials and host
  - Auto generated API will have (swagger) documentation
  - Has security, traffic management.
  - Automatic document generation, logging, API analytics.
  - Supports JS, Python, PHP
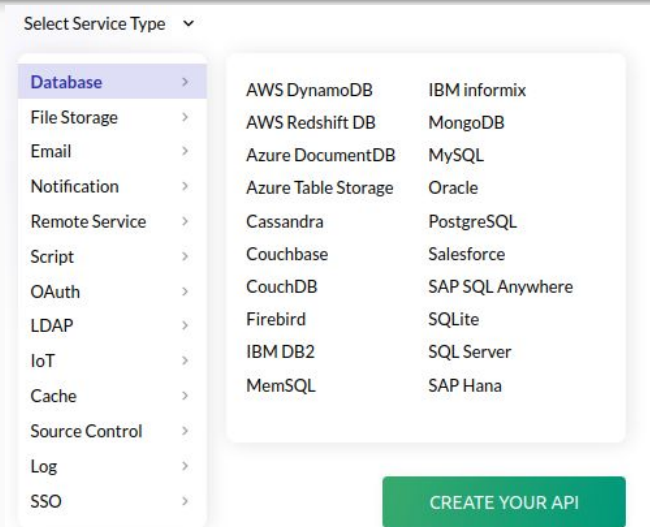
Why DreamFactory?

- Create API in minutes
- US based company (since 1998)
- Used by major Australian companies e.g. Netgear, Macquarie Uni, Woolworth, Nextpayment. Oversea clients include Salesforce.com, Nike, Apple Computer, American Express
- DreamFactory Data Mesh: combining/joining multiple tables or multiple databases in-demand (https://www.youtube.com/watch?v=6yOH1w2hjxM)

Instant API creation   Deep SQL support   Combine databases   Turn SOAP into REST   Server-side scripting   Rock-solid security   Federated access & data governance

Live API docs   Admin console   Run anywhere   Application deployment   API limits   Logging and reporting   API publishing

- https://www.dreamfactory.com/features/

Databases it supports

Select Service Type ∨		
Database >	AWS DynamoDB	IBM informix
File Storage >	AWS Redshift DB	MongoDB
Email >	Azure DocumentDB	MySQL
Notification >	Azure Table Storage	Oracle
Remote Service >	Cassandra	PostgreSQL
Script >	Couchbase	Salesforce
OAuth >	CouchDB	SAP SQL Anywhere
LDAP >	Firebird	SQLite
IoT >	IBM DB2	SQL Server
Cache >	MemSQL	SAP Hana
Source Control >		
Log >		
SSO >	**CREATE YOUR API**	

https://www.dreamfactory.com/hub/categories/all/

Also, create API to FTP, file storage, email ... etc

Custom API

If the auto-generated APIs are not enough, you can create your custom API.

- https://www.dreamfactory.com/resources/video/how-add-your-own-custom-api-dreamfactory/

Pricing

Community: FREE

Professional: Supports more database. Not hosted (**starts at USD 18,000.00/year**?)

Enterprice: support most databases. Hosted.

https://www.dreamfactory.com/products/

Demo

🔒 https://asx.apps.dreamfactory.com/dreamfactory/dist/index.html#/apidocs

Home   Apps   Admins   Users   Roles   Services   **API Docs**   Schema

GET /_table Retrieve one or more Tables.

GET /_table/{table_name} Retrieve one or more records.

Set the **filter** parameter to a SQL WHERE clause (optional native filter accepted in s
the **limit** parameter with or without a filter to return a specific amount of records. Us
parameter to SQL ORDER_BY clause containing field and optional direction (field_nar
posted data, use the getRecordsByPost() POST request and post a filter with or witho
and **id_type** parameters to override or specify detail for identifying fields where appl
fields parameter to limit properties returned for each record. By default, all fields are

Parameters

Name	Description
fields array [string] (query)	Comma-delimited list of properties to be returned for each re [username] [-] **Add item**
related array [string] (query)	Comma-delimited list of related names to retrieve for each re **Add item**
filter string (query)	SQL-like filter to limit the records to retrieve. [username = 'anthony']
limit integer (query)	Set to limit the filter results. [1]
offset	Set to offset the filter results to a particular record count.

Execute

Responses

Curl

```
curl -X GET "https://asx.apps.dreamfactory.com/api/v2/anthonydb/_table/user1?fields=username&filter=username = 'anthony'&limit=1" -H "acc
Key: 36fda24fe5588fa4285ac6c6c2fdfbdb6b6bc9834699774c9bf777f706d05a88" -H "X-DreamFactory-Session-Token:
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI5MTk2NDI3NWZjMwNhYTMyN2IzMTU4N2Q3MjJmODEwNiIsImlzcyI6Imh0dHBzOi8vYXN4LmFwcHMuZHJlYW1mYWN0b
LCJpYXQiOjE2MjI1MjMyODcsImV4cCI6MTYyMjYwOTY4NywibmJmIjoxNjIyNTIzMjg3LCJqdGkiOiJVUll4WnFwVm9xSVZKYXdzIiwidXNlcl9pZCI6MSwiZm9yZXZlciI6ZmFsc2
```

Request URL

```
https://asx.apps.dreamfactory.com/api/v2/anthonydb/_table/user1?fields=username&filter=username%20=%20%27anthony%27&limit=1
```

Server response

Code	Details
200	Response body ```{ "resource": [{ "username": "anthony" }] }``` Response headers

Upcoming

- Google GCP support coming
- Google BigQuery support coming
- [Integrate with Hive](#)