

# Odoo REST API

## Model Configuration in Odoo

By default, none of the models available in the API, and they need to be enabled one by one by administrator.

Go to **Settings** > **Technical** > **Models** > search for model (e.g. **sale.order**) > open model.

Then go to the **API Settings** tab:

Model Description: Quotation  
Model: sale.order  
Transient Model: ☐  
Mail Thread: ☒

Type: In Apps  
Base Object: [blurred]

Fields | Access Rights | Notes | Views | **API Settings**

**REST API** ☒ **Need to tick this box for models required in API. If not ticked, API will respond with "model not allowed" error**

**Delete Domain**  **Delete Domain is to specify conditions when records CAN be deleted**

**Include Fields**  
Include Computed Fields: ☐ **Some fields are computed, if need to include, can do it here**  
Include IDs in POST response:  **These are fields to be included in GET responses. By default, all fields included, but it's recommended to select required fields for better API performance and less info noise**

Field Name	Field Label	Field Type	Required	Readonly	Type
client_order_ref	Customer Reference	char	<input type="checkbox"/>	<input type="checkbox"/>	Base Field
date_order	Order Date	datetime	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Base Field
id	ID	integer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Base Field
margin	Margin	monetary	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Base Field
name	Order Reference	char	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Base Field
order_line	Order Lines	one2many	<input type="checkbox"/>	<input type="checkbox"/>	Base Field
origin	Source Document	char	<input type="checkbox"/>	<input type="checkbox"/>	Base Field

Type to enter a caption.

1. Tick **Rest API** to enable the model (minimum requirement)
2. Specify **Delete Domain** if you need. Format is [('field\_name', '=', value)]

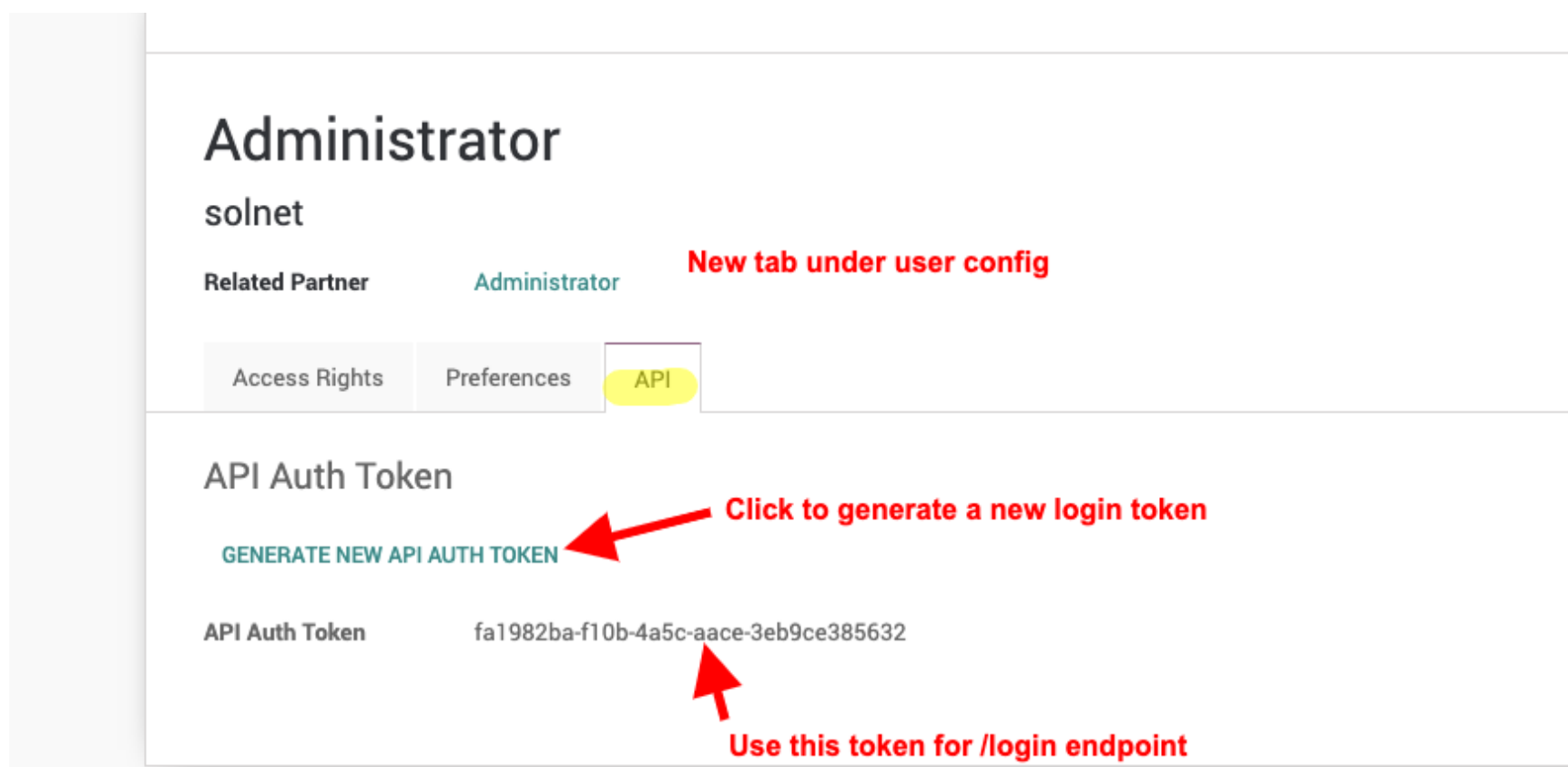
3. Specify **Include Computed Fields** if required (comma-separated words). By default, no computed fields included as they're not stored in the database; but you can still get them in the API responses by adding their labels here .
4. Specify fields that you want **Include IDs in POST responses**. By default, POST response is minimal, but you can include there fields you might need (comma-separated words).
5. Select **fields** you want to have in the API. By default, everything is included, but it can look pretty noisy as there're a lot of technical fields that rarely needed. If you specify some fields here, API will work faster and responses will look cleaner.

Note, that for some "child" fields you might need to enable API too. For example, if you want to update sale order lines, then you need to include **sale.order.line** model too.

## User Configuration in Odoo

Auth in the API is via access tokens that can be generated for each user in **Settings > Users&Companies > Users** > search for user > open.

Then navigate to the **API** tab:



Type to enter a caption.

When you want to revoke a user's access, just click on **Generate New API Auth Token**, and the old one will be revoked. Use the token generated for */login* endpoint, then use **access\_token** from the response as **Access-Token** to all other endpoints.

If no token or token's invalid -- API returns 401 Unauthorised error with a message.

## API usage

Example GET endpoints for Sale Order:

- GET /api/v1/login
- GET /api/v1/model/sale.order
- GET /api/v1/model/sale.order/<Record ID> (for specific order)
- GET /api/v1/model/sale.order/?limit=10&fields=name&order=amount\_untaxed
- GET /api/v1/model/sale.order/?domain=name,=,SO27807

### Optional params for GET "search" endpoints:

- **limit** to limit a number of records (default is 20)
- **fields** if some specific fields required (overwrites model config)
- **order** if some specific ordering required
- **domain** if specific domain has to be applied

Also accepts PUT, DELETE and POST calls – see Postman Collection for more examples.