

Configure OAuth2 Authentication For Rest API

Summary

This article provides information about how to configure and use OAuth2 authentication for Rest API in MachPanel

Applies To

MachPanel v7 and above

Overview

The OAuth 2.0 authorization framework is a protocol that allows a user to grant a third-party web site or application access to the user's protected resources, without necessarily revealing their long-term credentials or even their identity.

Authentication

To enable OAuth2 for Rest API, Navigate to **System Configuration > Company Profile > API Settings**.

- Under **Rest API Settings**, click the **OAuth2** from the authentication types, Set the Token Expire time and click Save

The screenshot shows the MachPanel web interface. On the left is a sidebar menu with 'System Configuration' expanded, showing 'Company Profile' as the selected item. The main content area has a breadcrumb trail 'Home > System Configuration > Company Profile' and a 'Set as Home Page' button. Below the breadcrumb are tabs: 'Company Profile', 'Culture', 'Personalization', 'API Settings' (which is active), 'Terms & Conditions', and 'Skins'. The 'API Settings' tab contains three sections: 'API Information' with a 'Status' dropdown set to 'Enabled'; 'Authentication Settings' with fields for 'API Login', 'API Password', and 'Allowed IP Addresses' (with a note about comma-separated IP addresses); and 'REST API Settings' which includes a note about restarting the REST API application, checkboxes for 'Supported Authentication Types' (Basic and OAuth2 are checked), 'OAuth2 Token Uri' set to '/api/token', 'Allow Refresh Token Auth' checked, 'Allow Insecure Http' unchecked, and 'Token Expires In' set to '20 Mins'.

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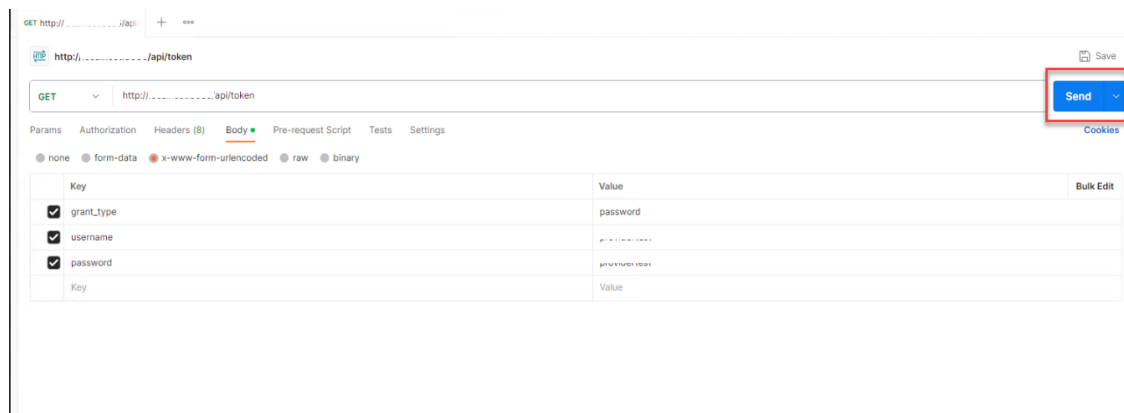
Using the API

The API platform used is Postman API Platform. This can be downloaded from this [link](#)

- **Generate Access Token**

- o Enter the URL of your panel ending with **/api/token**
- o Then add the following Key and value as shown below
 - **Grant Type** must be set to 'password'
 - **Username** value should be the API Login set under API Settings (**System Configuration > Company Profile > API Settings**)
 - **Password** value should be the API Password set under API Settings (**System Configuration > Company Profile > API Settings**)

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- o After that you can click on **Send** to generate **Access Token**

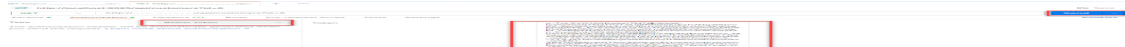
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- **Extracting the data**

- o Copy the **Access Token** generated
- o Go to **Authorization** tab and choose the Type **Bearer Token**
- o Enter the URL (example shown for extracting the customer data having id=6)
- o Paste the **Access Token** under the field of **Token** and click **Send**

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- o The data extracted will be shown as below

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The screenshot displays a REST client interface with the following details:

- Status:** 200 OK, Time: 2.30 s, Size: 6.15 KB
- Response Body (JSON):**

```
{  "totalPages": 6,  "itemsCount": 43,  "items": [    {      "isDeleted": false,      "suspendReason": "",      "isSuspended": false,      "dateCreated": "2021-05-03T22:09:37",      "customerId": 168,      "isTaxable": true,      "taxGroupNumber": "212",      "taxExemptionID": "123",      "isFraud": false,      "firstName": "Ali",      "lastName": "khan",      "address1": "Street xyz abc avenue",      ...    }  ]}
```

MachPanel Knowledgebase

<https://kb.machsol.com/Knowledgebase/55760/Configure-OAuth2-Authentication-...>