

MachPanel REST API Configuration

Summary

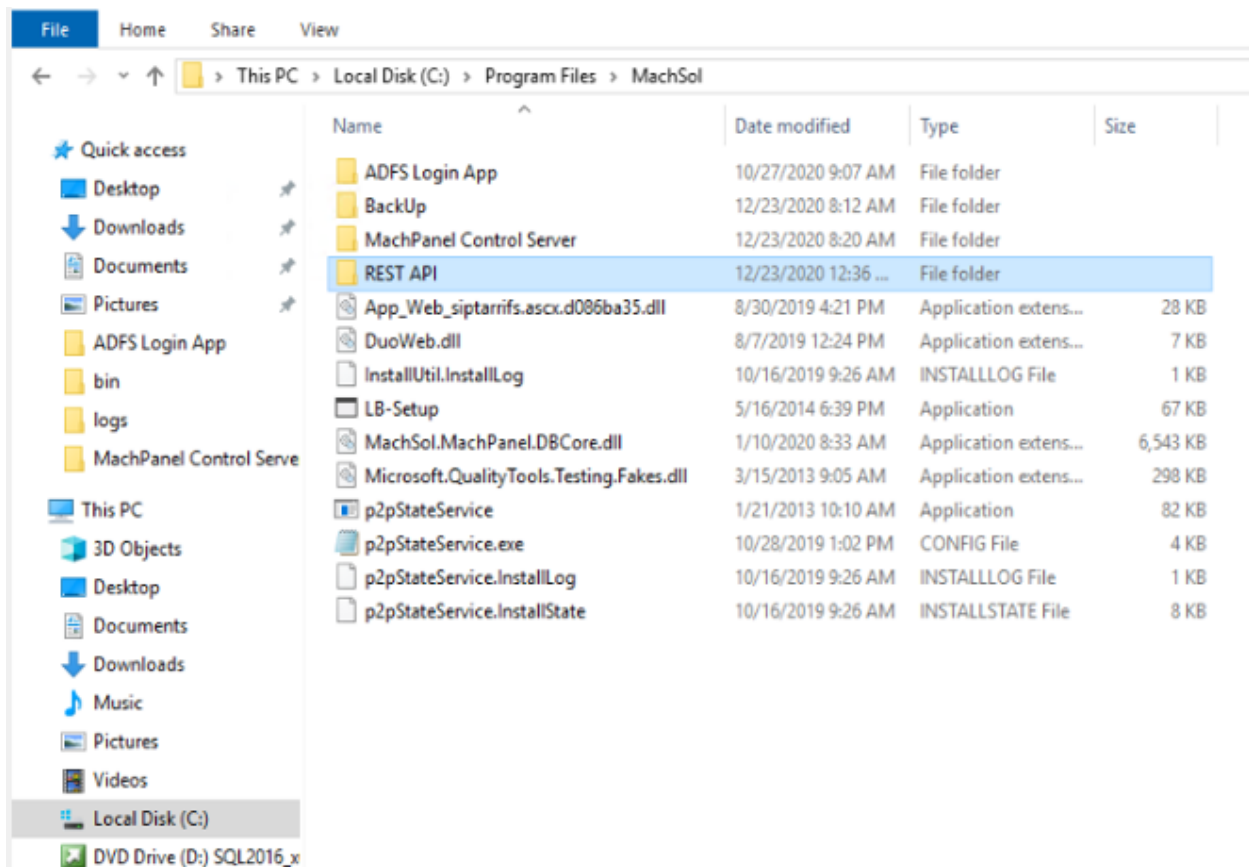
This article guides how to configure MachPanel REST API

Prerequisites

.Net 4.7.2 or later is required

Configuration

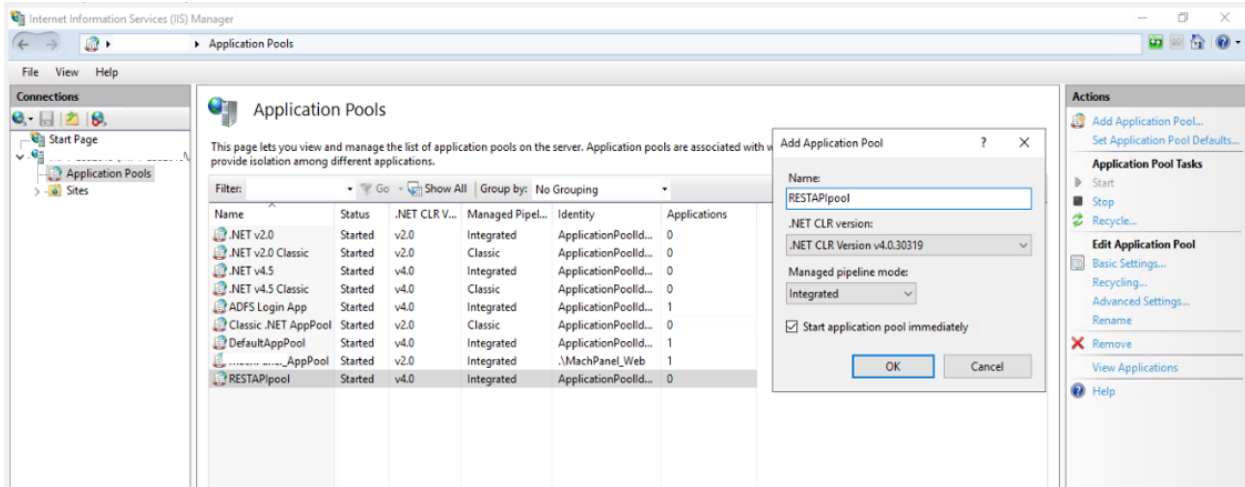
Download [NewInstall-REST-API.zip](#) (Updated 22 Novemeber, 2023), unzip, and place it on a path that can be accessed via IIS Web Site Creation Wizard.



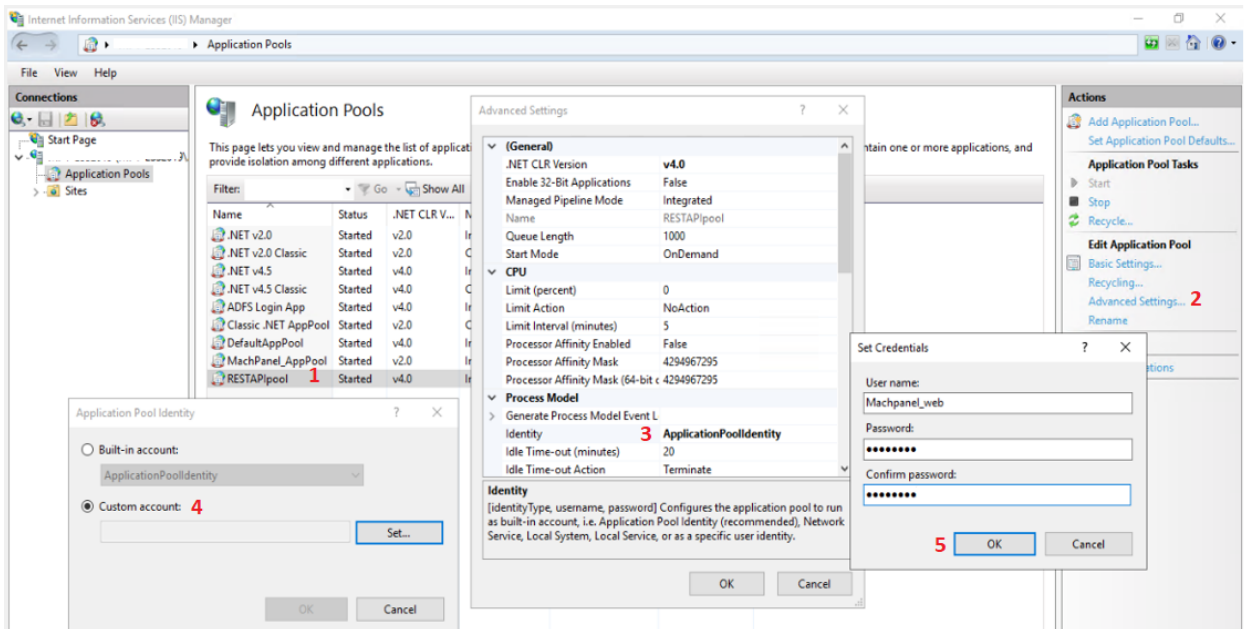
Launch IIS Manager, Select Application Pools, Click to **Add Application Pool** in Action pane.

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Specify a **Name** and select **.NET CLR version (v4.0)**, Click **OK**



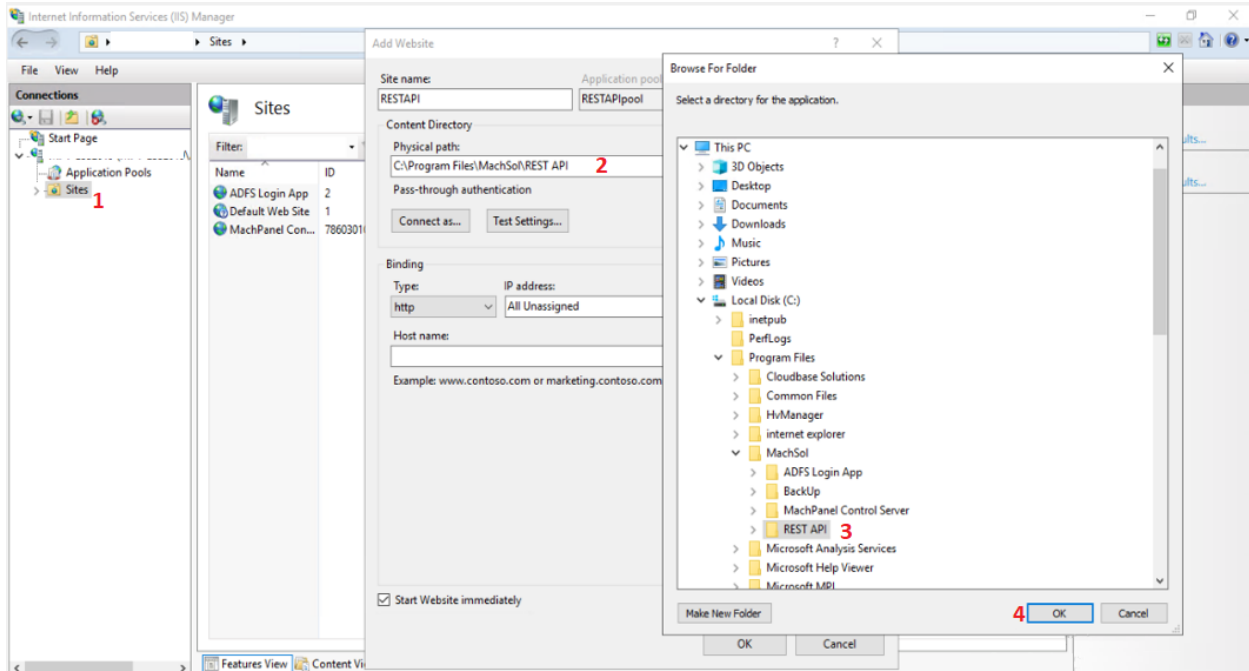
1. Select the pool,
2. In Action pane, click on **Advance Settings**
3. Locate Identity (under **Process Model**)
4. Select **Custom account**
5. Specify credentials, click **OK**
 - **Note:** This account shall have read/write access to physical path and MachPanel registry, it is recommended to use same identity account which is used for MachPanel App pool.



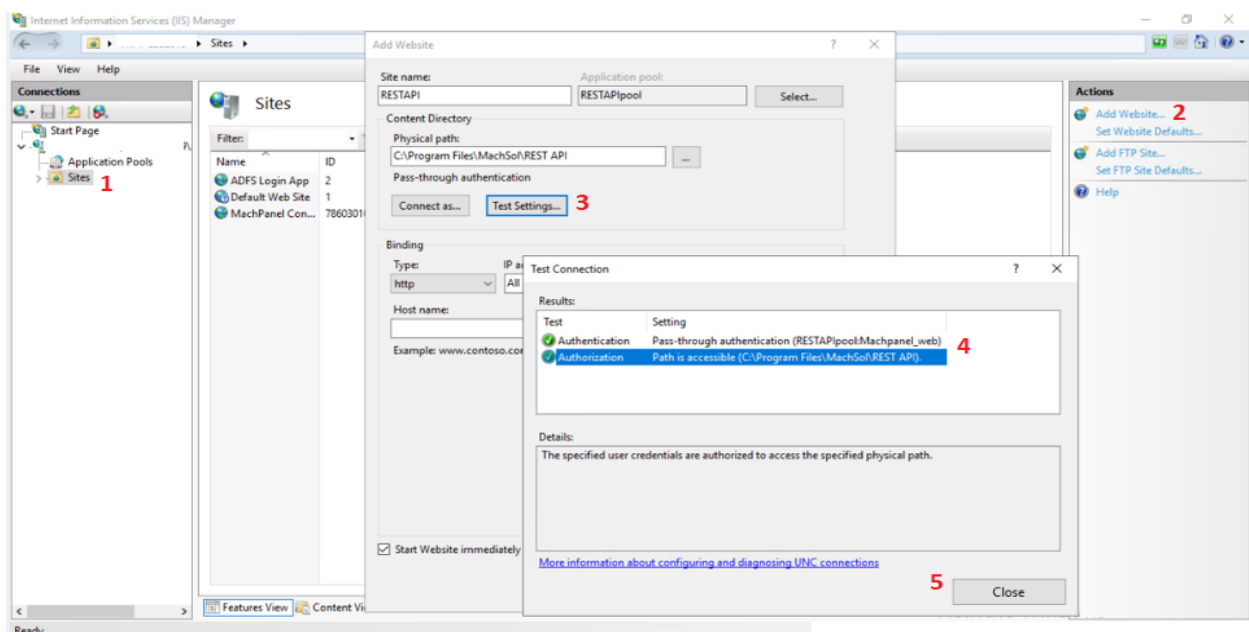
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Click to add website, follow these steps

- Specify Site name
- Specify Physical path (steps 2-4)

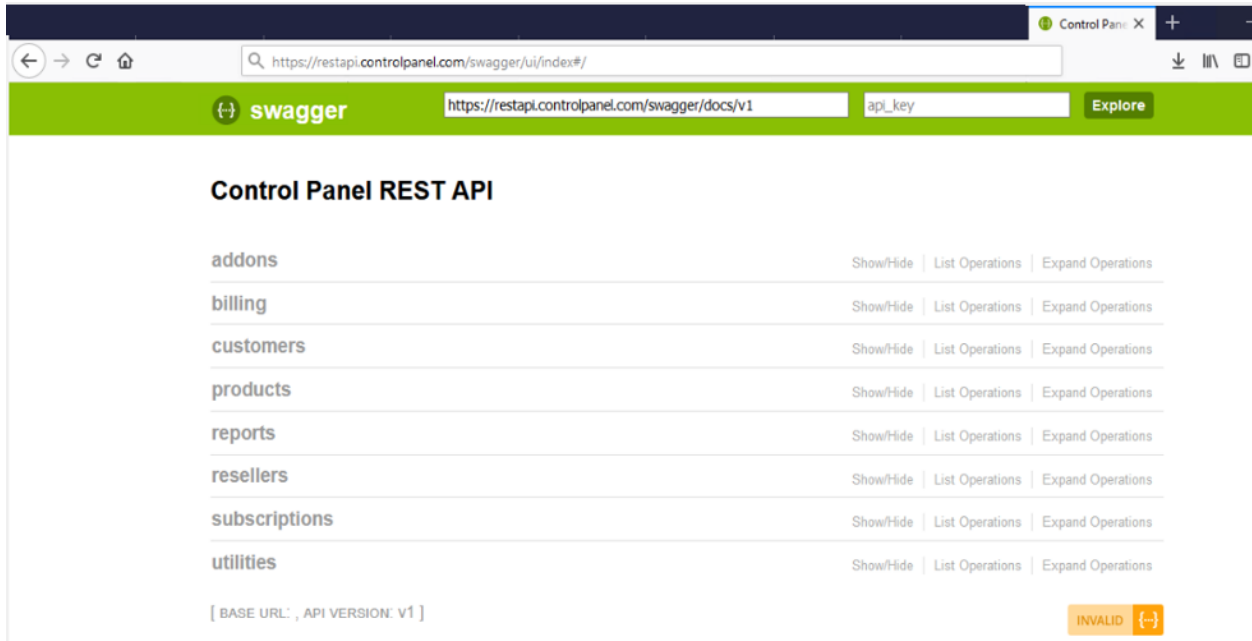


Now test Settings (Steps 3-5), Click **Close** and **OK** respectively.



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Now browse new website and as you will see as shown below (i.e. Control Panel REST API).



Click on the relevant accordion to see endpoint details and available operations

subscriptions Show/Hide List Operations Expand Operations

POST	/api/subscriptions/addon-order	Create addon order
PUT	/api/subscriptions/{id}/suspend	Suspend subscription
PUT	/api/subscriptions/{id}/resume	Resume subscription
GET	/api/subscriptions/{id}/addons	Get subscription addons
PUT	/api/subscriptions/{id}/change-package	Change subscription package
GET	/api/subscriptions/{id}/resources-detail	Get subscription resources detail
GET	/api/subscriptions/{id}/resources-usage	Get subscription resources usage detail
GET	/api/subscriptions	Get collection of subscription resource
POST	/api/subscriptions	Create product order

Response Class (Status 200)
OK

POST /api/subscriptions Create product order

Response Class (Status 200)
OK

Model | Example Value

```
{}
```

Response Content Type: application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
order	<pre>{ "Reseller": { "Company": { "WebURL": "string", "PrimaryAddress": "string", "SecondaryAddress": "string", "City": "string", "State": "string" } }, "Product order resource object" }</pre>		body	Model Example Value

Parameter content type: application/json

```
{
  "Reseller": {
    "Company": {
      "WebURL": "string",
      "PrimaryAddress": "string",
      "SecondaryAddress": "string",
      "City": "string",
      "State": "string",
      "Province": "string",
      "Zipcode": "string"
    }
  }
}
```

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Authentication

MachPanel REST API uses basic authentication for operations requests and each request shall pass the credentials set in MachPanel API settings interface in panel.

See below screenshot for setting credentials for API.

The screenshot displays the MachPanel REST API Configuration interface. At the top, a breadcrumb trail shows 'Home > System Configuration > Company Profile'. Below this, a navigation menu includes 'Company Profile', 'Culture', 'Personalization', 'API Settings' (highlighted with a red circle), 'Terms & Conditions', and 'Skins'. The main content area is divided into three sections: 'API Information', 'Authentication Settings', and 'REST API Settings'. In the 'Authentication Settings' section, the 'API Login' is 'providertest' and the 'API Password' is masked. The 'Allowed IP Addresses' field is also masked. A note below this field states: '[Note: Provide IP addresses in comma separated way. i.e:10.1.1.1, 10.1.1.2, 10.1.1.3]'. The 'REST API Settings' section includes a note: '[Note: Any change in API settings requires to restart REST API application on web server]'. It features checkboxes for 'Basic' and 'OAuth2' authentication types, both of which are checked. A red arrow points to the 'OAuth2' checkbox with the text 'OAuth2 added in REST API'. Other fields include 'OAuth2 Token Uri' (set to '/api/token'), 'Allow Refresh Token Auth' (checked), 'Allow Insecure Http' (unchecked), and 'Token Expires In' (set to '20 Mins'). The 'WHMCS Settings' section at the bottom includes a 'WHMCS Module' checkbox (unchecked) with a note: '[Note: Enabling WHMCS will turn built-in billing module off]'. It also has 'Encryption Key' and 'Security Code' fields, each with a 'Generate' button. Notes for these fields state: '[Note: This key will be used to encrypt/decrypt data that is transmitted between panel and WHMCS via browser as hidden fields or in the url. This key shall be provided in WHMCS integration configuration file]' and '[Note: This security code will be used to validate the auto login authentication from WHMCS into Panel. This Code shall be provided in WHMCS integration configuration file]'. A 'Save' button is located at the bottom left of the interface.

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Known Issue

If following error is seen:

405 - HTTP verb used to access this page is not allowed

Have to update web.config of REST API project on that client as:

Replace section: <system.webServer> with:

```
<system.webServer>

  <modules>

    <remove name="WebDAVModule" />

  </modules>

  <handlers>

    <remove name="ExtensionlessUrlHandler-Integrated-4.0" />

    <remove name="OPTIONSVerbHandler" />

    <remove name="TRACEVerbHandler" />

    <remove name="WebDAV" />

    <add name="ExtensionlessUrlHandler-Integrated-4.0" path="*." verb="*"
    type="System.Web.Handlers.TransferRequestHandler"
    preCondition="integratedMode,runtimeVersionv4.0" />

  </handlers>
```

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</system.webServer>

Differences is shown below (right side is final file)

```
<appSettings>
  <add key="webpages:Version" value="3.0.0.0" />
  <add key="webpages:Enabled" value="false" />
</appSettings>
<system.web>
  <compilation targetFramework="4.7.2" />
  <httpRuntime targetFramework="4.7.2" />
</system.web>
<system.webServer>
  <handlers>
    <remove name="ExtensionlessUrlHandler-Int" />
    <remove name="OPTIONSVerbHandler" />
    <remove name="TRACEVerbHandler" />
    <add name="ExtensionlessUrlHandler-Integr" />
  </handlers>
  <runtime>
    <assemblyBinding xmlns="urn:schemas-microso" />
    <dependentAssembly>
      <assemblyIdentity name="Antlr3.Runtime" />
      <bindingRedirect oldVersion="0.0.0.0-3" />
    </dependentAssembly>
    <dependentAssembly>
      <assemblyIdentity name="Newtonsoft.Json" />
      <bindingRedirect oldVersion="0.0.0.0-12" />
    </dependentAssembly>
  </runtime>
</system.webServer>
```

Getting Started with MachPanel REST API

<https://kb.machsol.com/Knowledgebase/55675/Getting-Started-with-MachPanel-REST-API>

@font-face {font-family:"Cambria Math"; panose-1:2 4 5 3 5 4 6 3 2 4;}@font-face

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```
{font-family:Calibri; panose-1:2 15 5 2 2 2 4 3 2 4;}@font-face {font-family:"Segoe UI";  
panose-1:2 11 5 2 4 2 4 2 2 3;}p.MsoNormal, li.MsoNormal, div.MsoNormal  
{margin-top:0in; margin-right:0in; margin-bottom:8.0pt; margin-left:0in;  
line-height:107%; font-size:11.0pt; font-family:"Calibri",sans-serif;}.MsoChpDefault  
{font-family:"Calibri",sans-serif;}.MsoPapDefault {margin-bottom:8.0pt;  
line-height:107%;}div.WordSection1 {page:WordSection1;}
```

MachPanel Knowledgebase

<https://kb.machsol.com/Knowledgebase/55650/MachPanel-REST-API-Configuration>