

# MachPanel REST API Configuration

## Summary

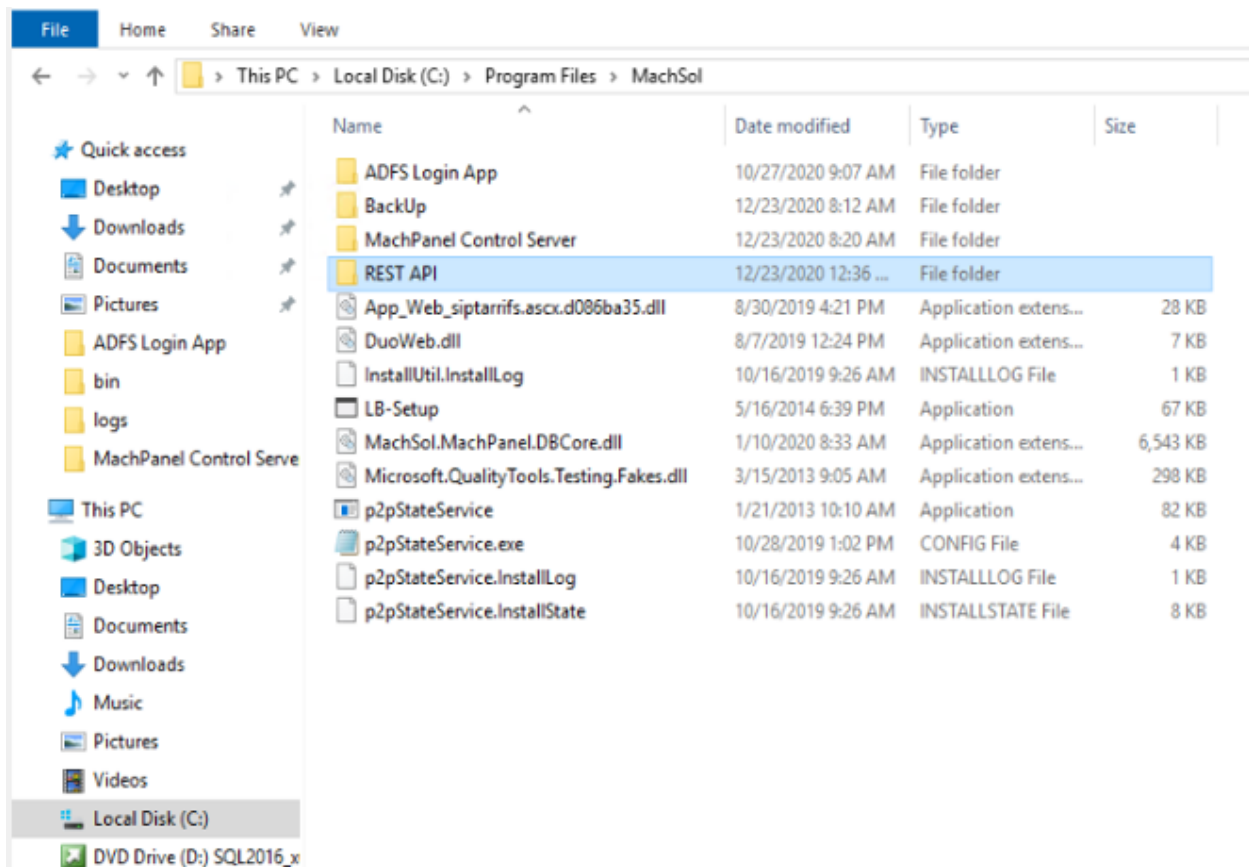
This article guides how to configure MachPanel REST API

## Prerequisites

.Net 4.7.2 or later is required

## Configuration

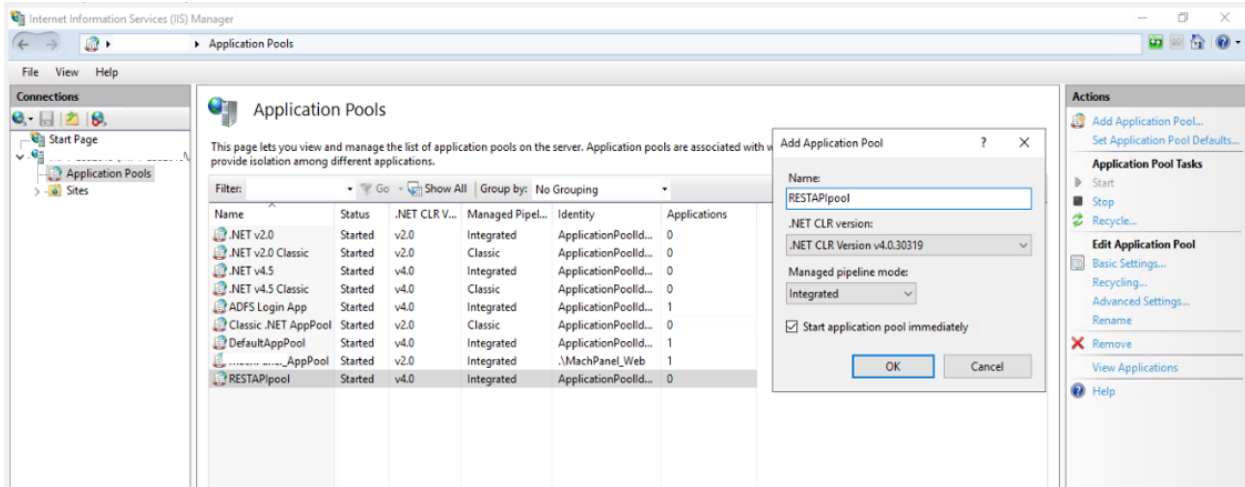
Download [NewInstall-REST-API.zip](#) (Updated 22 Novemeber, 2023), unzip, and place it on a path that can be accessed via IIS Web Site Creation Wizard.



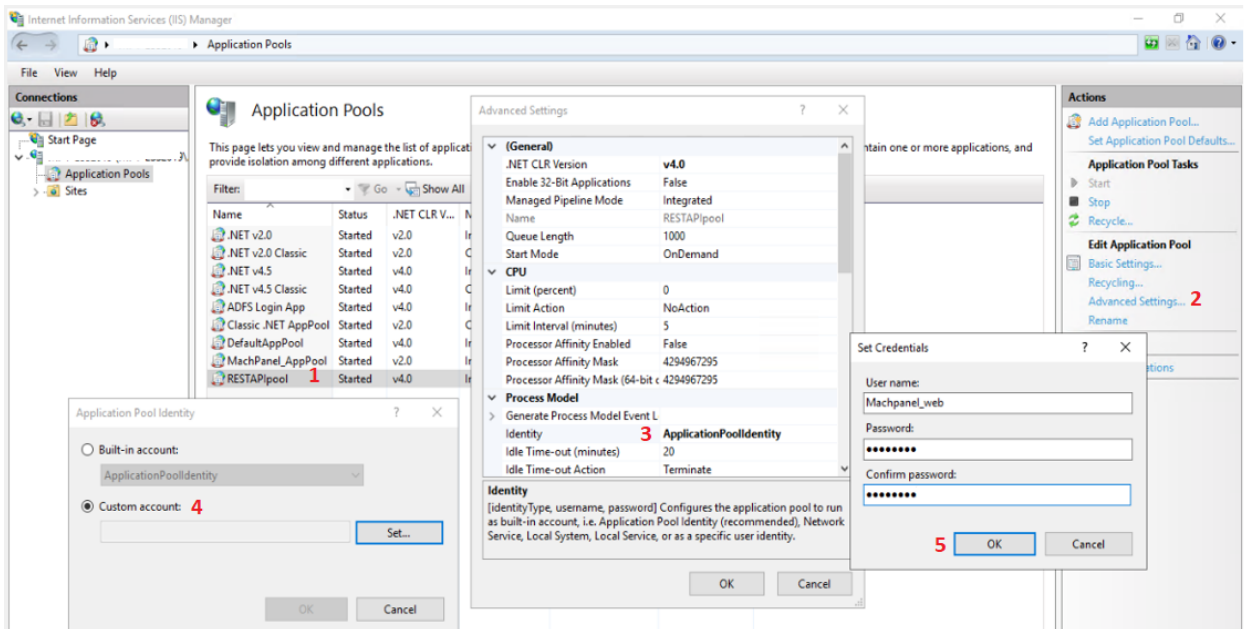
Launch IIS Manager, Select Application Pools, Click to **Add Application Pool** in Action pane.

# MachPanel REST API Configuration

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



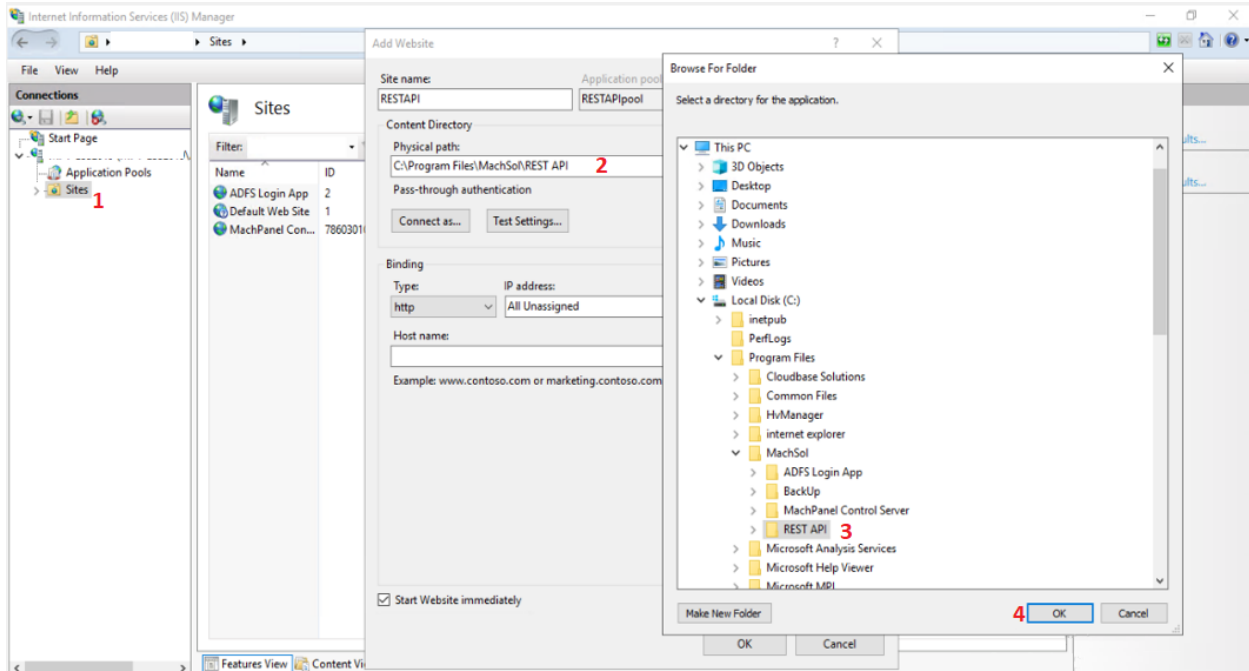
1. Select the pool,
2. In Action pane, click on **Advance Settings**
3. Locate Identity (under **Process Model**)
4. Select **Custom account**
5. Specify credentials, click **OK**
  - **Note:** This account shall have read/write access to physical path and MachPanel registry, it is recommended to use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



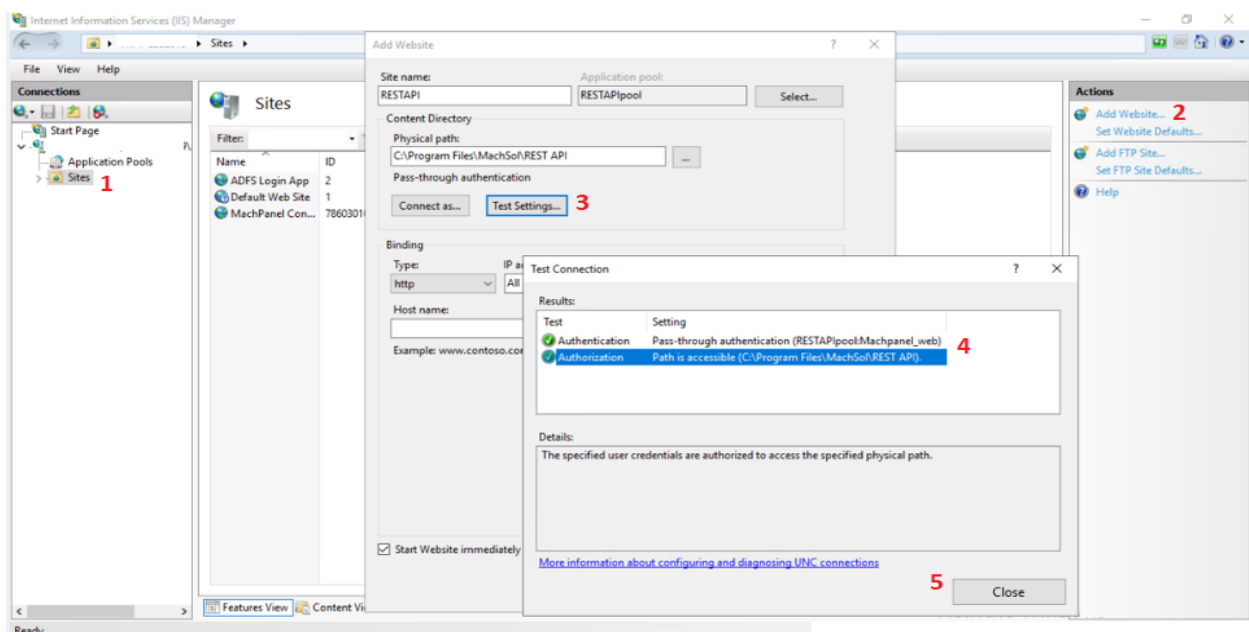
# MachPanel REST API Configuration

Click to add website, follow these steps

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

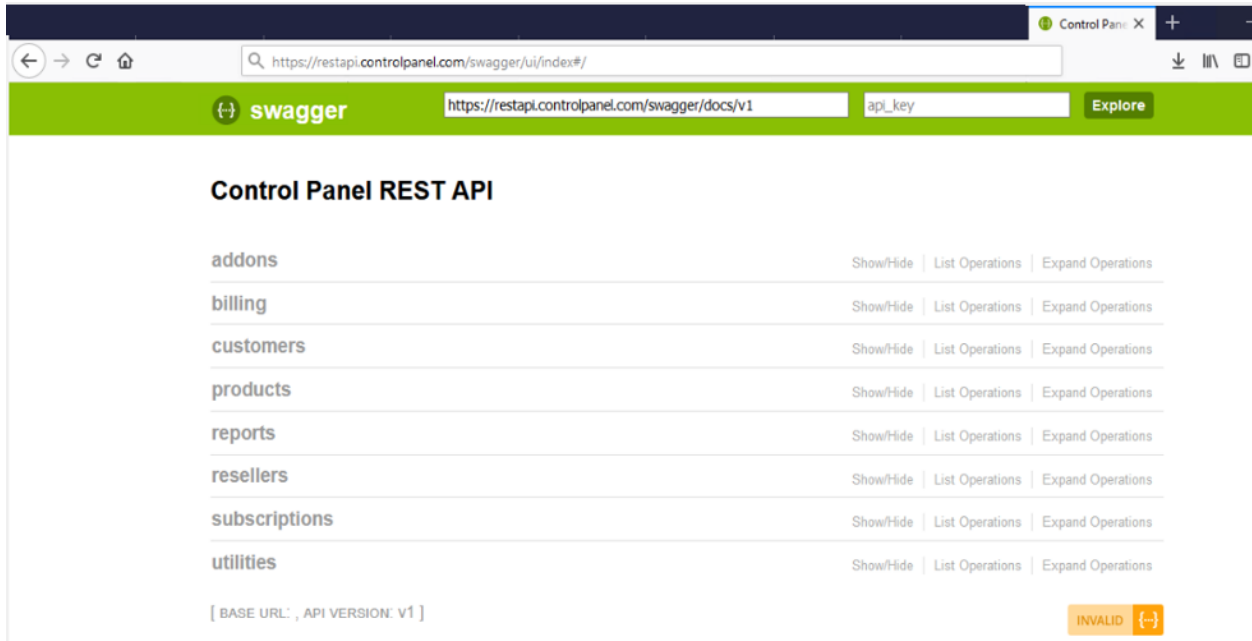


Now test Settings (Steps 3-5), Click **Close** and **OK** respectively.

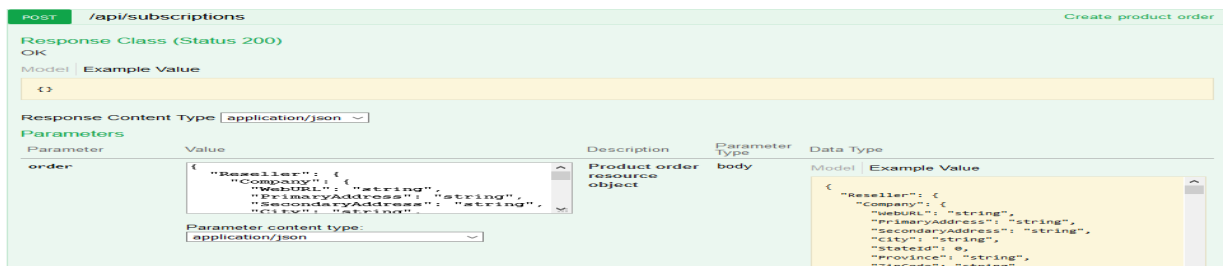
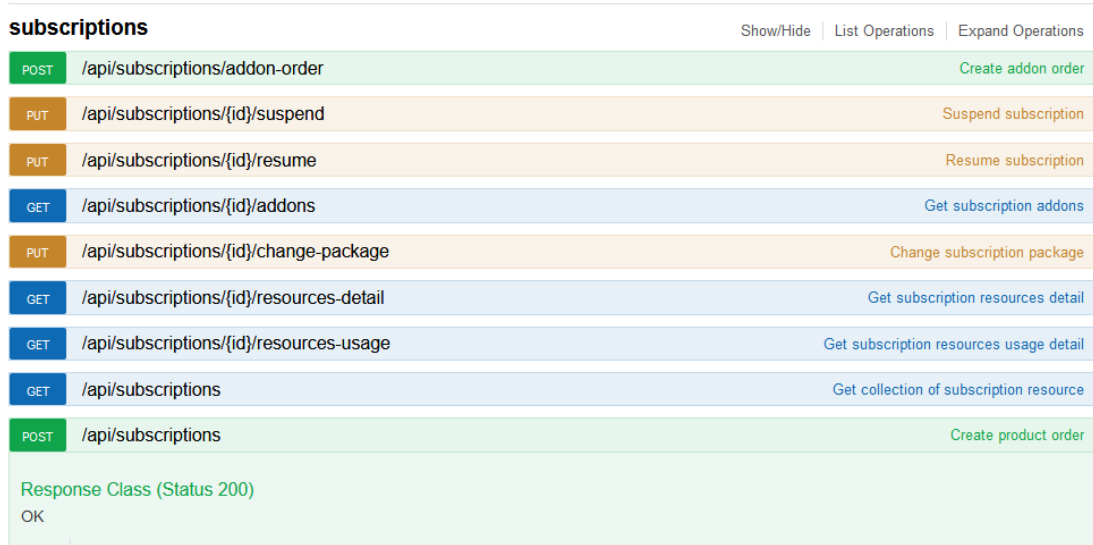


# MachPanel REST API Configuration

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





# MachPanel REST API Configuration

## 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'. The 'API Settings' tab is selected and circled in red. The interface is divided into several sections:

- API Information:** The 'Status' is set to 'Enabled'.
- Authentication Settings:** The 'API Login' is 'providertest' and the 'API Password' is masked. The 'Allowed IP Addresses' field is also masked. A note below states: '[Note: Provide IP addresses in comma separated way. i.e:10.1.1.1, 10.1.1.2, 10.1.1.3]'
- REST API Settings:** A note at the top reads: '[Note: Any change in API settings requires to restart REST API application on web server]'. Under 'Supported Authentication Types', both 'Basic' and 'OAuth2' are checked. A red arrow points to the 'OAuth2' checkbox with the text 'OAuth2 added in REST API'. Other settings include 'OAuth2 Token Uri' as '/api/token', 'Allow Refresh Token Auth' checked, 'Allow Insecure Http' unchecked, and 'Token Expires In' set to '20 Mins'.
- WHMCS Settings:** The 'WHMCS Module' is unchecked, with a note: '[Note: Enabling WHMCS will turn built-in billing module off]'. The 'Encryption Key' and 'Security Code' fields are masked, 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.

## MachPanel REST API Configuration

### 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>
```

# MachPanel REST API Configuration

</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

## MachPanel REST API Configuration

```
{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>