

# MachPanel REST API Configuration

## Summary

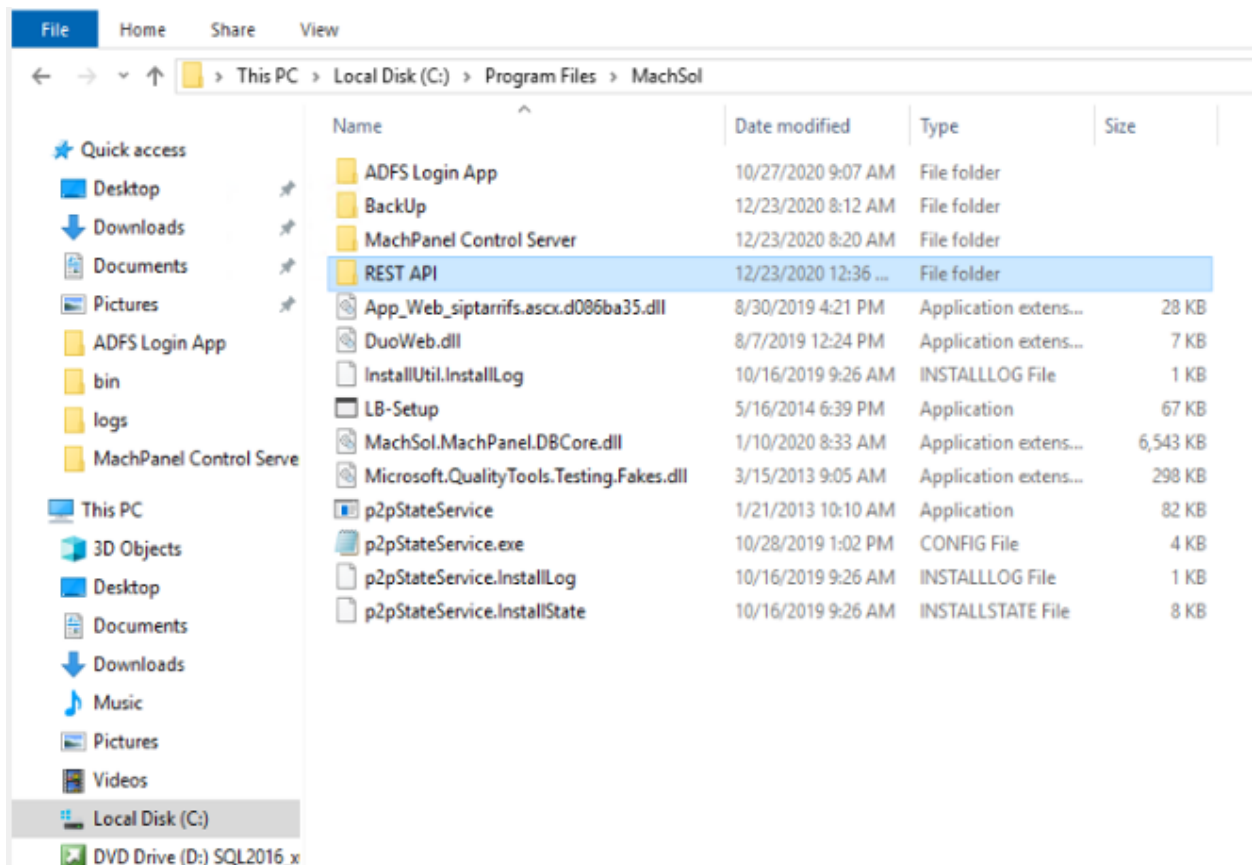
This article guides how to configure MachPanel REST API

## Prerequisites

.Net 4.7.2 or later is required

## Configuration

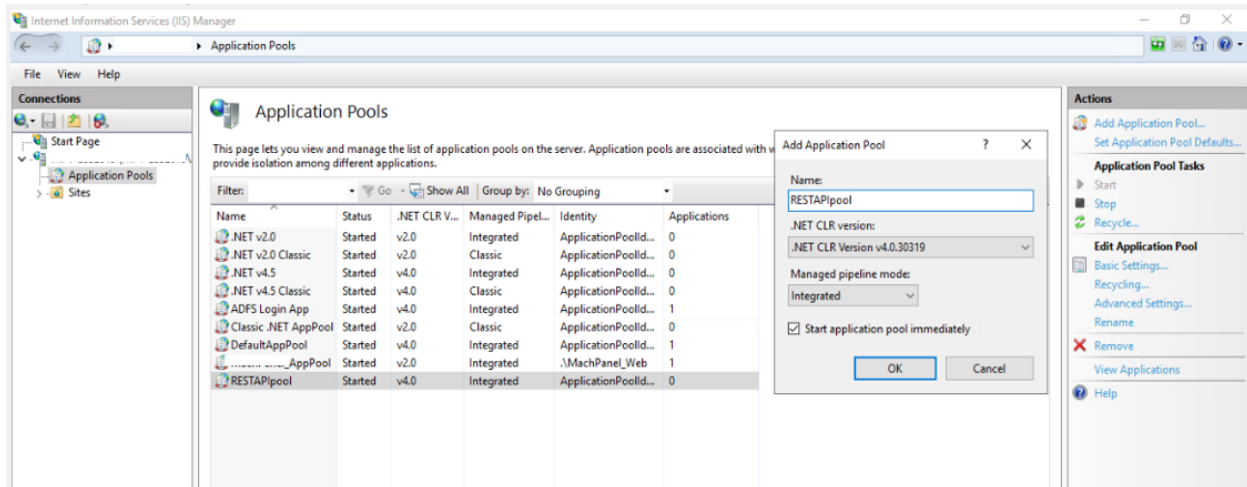
Download [NewInstall-REST-API.zip](#) (Updated 22 Novemeber, 2023), unzip, and place it on a path that can be accessed via IIS Web Site Creation Wizard.



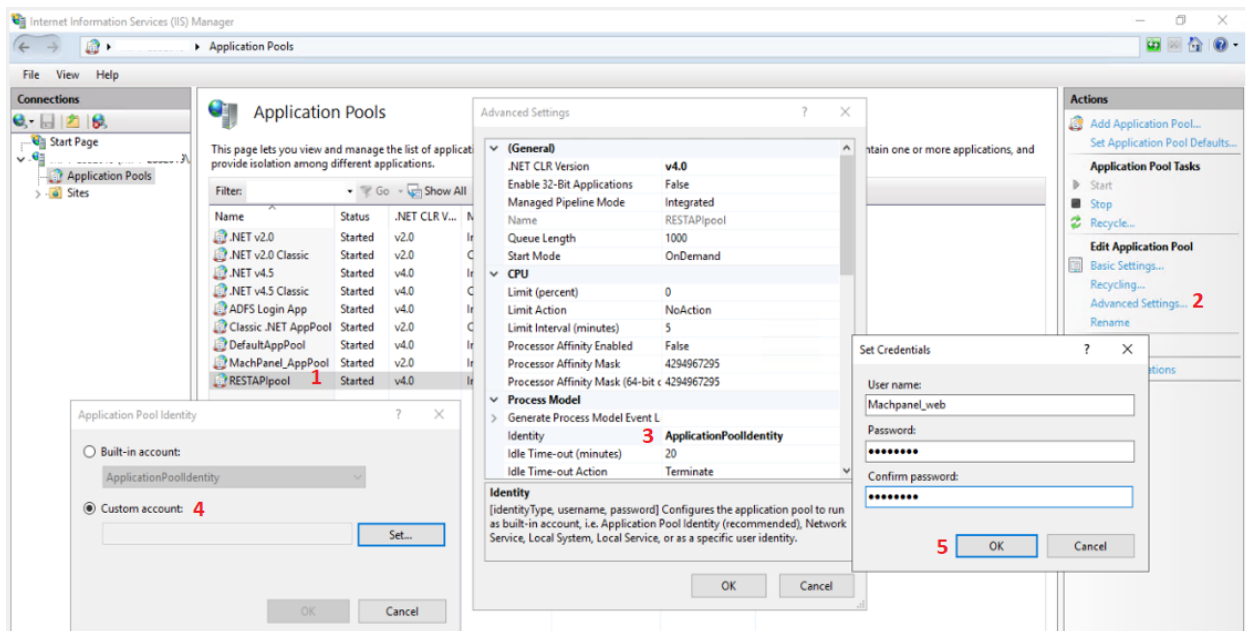
Launch IIS Manager, Select Application Pools, Click to **Add Application Pool** in Action pane.

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



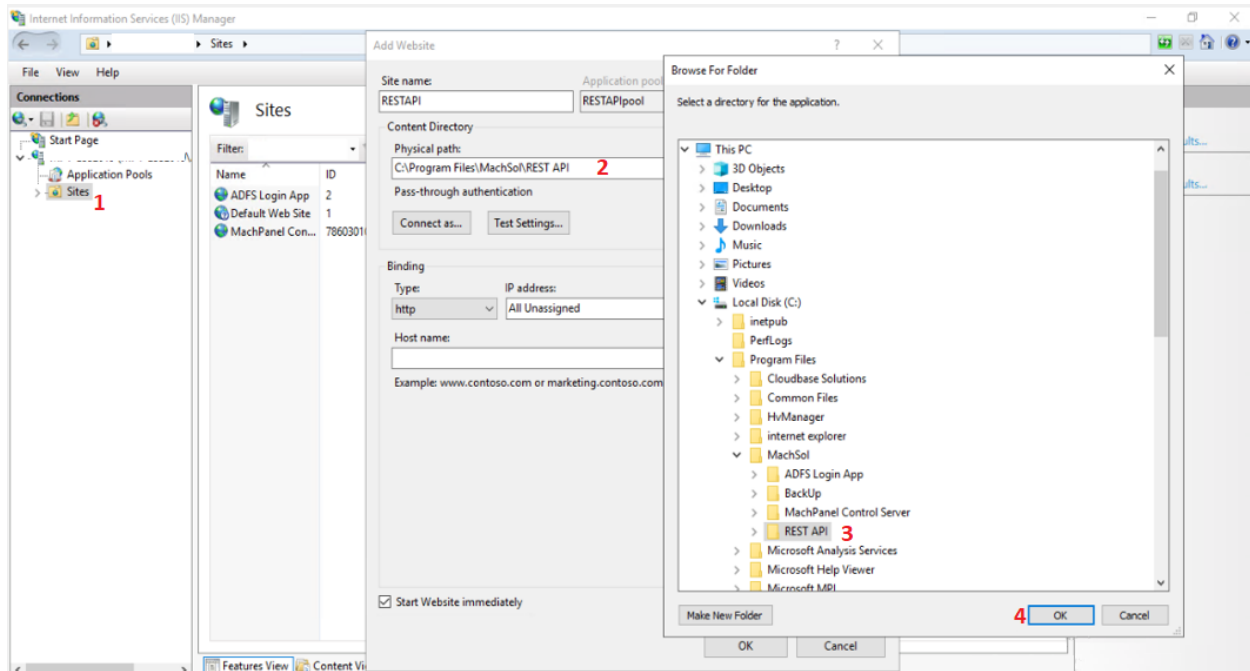
1. Select the pool,
  2. In Action pane, click on **Advance Settings**
  3. Locate Identity (under **Process Model**)
  4. Select **Custom account**
  5. Specify credentials, click **OK**
- **Note:** This account shall have read/write access to physical path and MachPanel registry, it is recommended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



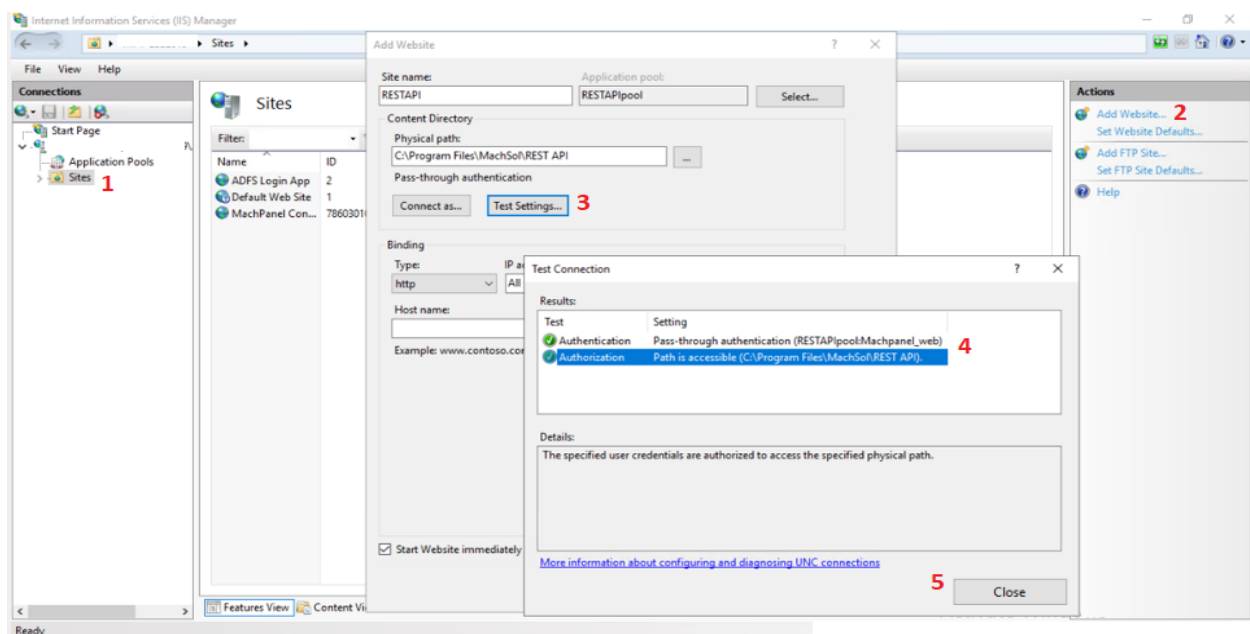
# MachPanel REST API Configuration

Click to add website, follow these steps

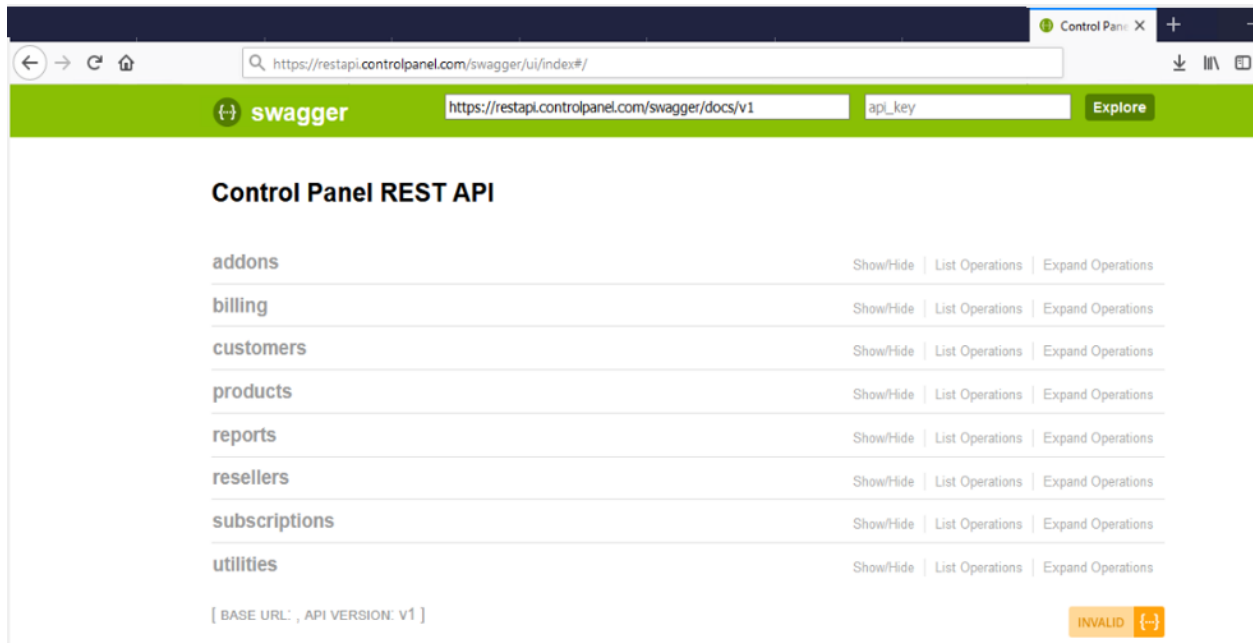
- Specify Site name
- Specify Physical path (steps 2-4)



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



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 <span>application/json</span>		
Parameters		
Parameter	Value	Description
order	<pre>{   "Reseller": {     "Company": {       "WebURL": "string",       "PrimaryAddress": "string",       "SecondaryAddress": "string",       "City": "string"     }   } }</pre> <p>Parameter content type: <span>application/json</span></p>	Product order resource object
body	Model   Example Value	
<pre>{   "Reseller": {     "Company": {       "WebURL": "string",       "PrimaryAddress": "string",       "SecondaryAddress": "string",       "City": "string",       "StateId": "e",       "Province": "string", </pre>		



# 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. The breadcrumb navigation at the top shows 'Home > System Configuration > Company Profile'. The 'API Settings' tab is selected and highlighted with a red circle. The 'API Information' section shows the status as 'Enabled'. The 'Authentication Settings' section includes fields for 'API Login' (provideritest), 'API Password' (masked), and 'Allowed IP Addresses' (masked). A note specifies that IP addresses should be provided in a comma-separated format. The 'REST API Settings' section contains a note about restarting the REST API application after changes. It shows 'Supported Authentication Types' with 'Basic' and 'OAuth2' checked, and a red arrow points to the 'OAuth2' checkbox with the text 'OAuth2 added in REST API'. Other fields include 'OAuth2 Token Uri' (/api/token), 'Allow Refresh Token Auth' (checked), 'Allow Insecure Http' (unchecked), and 'Token Expires In' (20 Mins). The 'WHMCS Settings' section includes a checkbox for 'WHMCS Module', an 'Encryption Key' field with a 'Generate' button, and a 'Security Code' field with a 'Generate' button. Both key and code fields have detailed notes about their usage in WHMCS integration.

Home > System Configuration > Company Profile

Company Profile Culture Personalization **API Settings** Terms & Conditions Skins

API Information

\* Status: Enabled

Authentication Settings

\* API Login: providertest

\* API Password: [Masked]

Allowed IP Addresses : [Masked]

[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

[Note: Any change in API settings requires to restart REST API application on web server]

Supported Authentication Types: ☒ Basic ☒ OAuth2 **← OAuth2 added in REST API**

\* OAuth2 Token Uri: /api/token

Allow Refresh Token Auth: ☒

Allow Insecure Http: ☐

Token Expires In: 20 Mins

WHMCS Settings

WHMCS Module: ☐ [Note: Enabling WHMCS will turn built-in billing module off]

Encryption Key: [Masked] **Generate**

[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]

Security Code: [Masked] **Generate**

[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]

**Save**

## 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" />

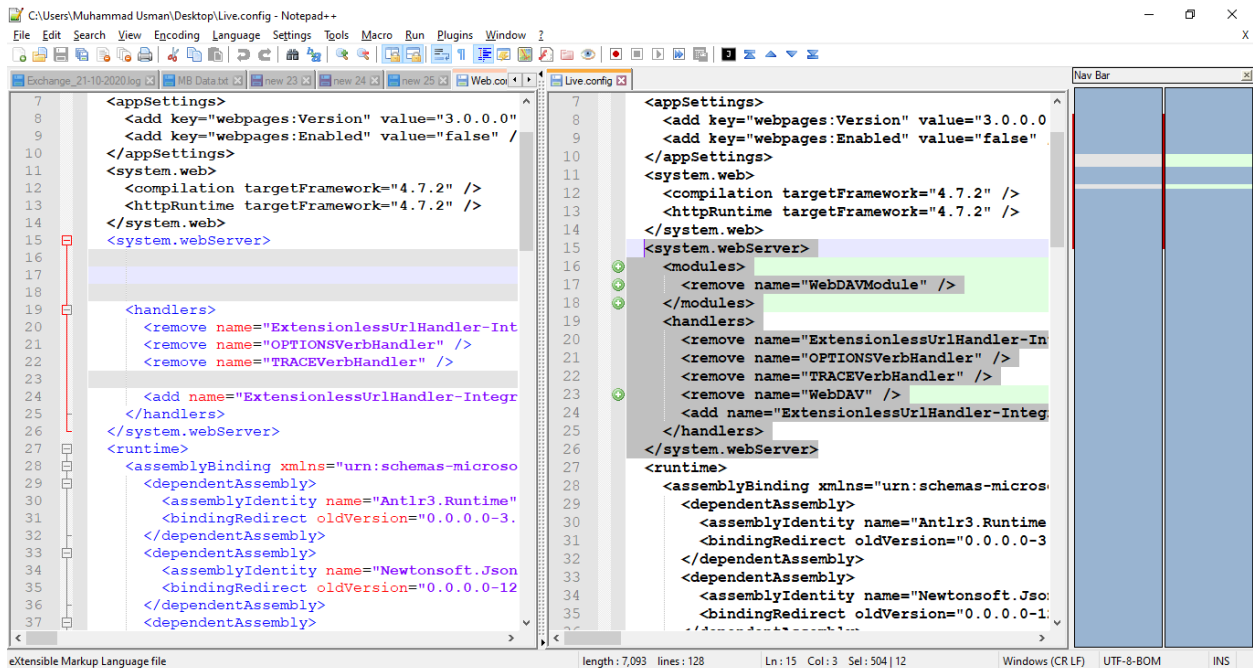
    <add name="ExtensionlessUrlHandler-Integrated-4.0" path="*." verb="*"
type="System.Web.Handlers.TransferRequestHandler"
preCondition="integratedMode, runtimeVersionv4.0" />

  </handlers>
```

# MachPanel REST API Configuration

</system.webServer>

Differences is shown below (right side is final file)



```
7 <appSettings>
8 <add key="webpages:Version" value="3.0.0.0" />
9 <add key="webpages:Enabled" value="false" />
10 </appSettings>
11 <system.web>
12 <compilation targetFramework="4.7.2" />
13 <httpRuntime targetFramework="4.7.2" />
14 </system.web>
15 <system.webServer>
16
17
18
19
20 <handlers>
21 <remove name="ExtensionlessUrlHandler-Int
22 <remove name="OPTIONSVerbHandler" />
23 <remove name="TRACEVerbHandler" />
24
25 <add name="ExtensionlessUrlHandler-Integr
26 </handlers>
27 </system.webServer>
28 <runtime>
29 <assemblyBinding xmlns="urn:schemas-microso
30 <dependentAssembly>
31 <assemblyIdentity name="Antlr3.Runtime"
32 <bindingRedirect oldVersion="0.0.0.0-3.
33 </dependentAssembly>
34 <dependentAssembly>
35 <assemblyIdentity name="Newtonsoft.Json"
36 <bindingRedirect oldVersion="0.0.0.0-12
37 </dependentAssembly>
38 </runtime>
39 </system.webServer>
```

```
7 <appSettings>
8 <add key="webpages:Version" value="3.0.0.0" />
9 <add key="webpages:Enabled" value="false" />
10 </appSettings>
11 <system.web>
12 <compilation targetFramework="4.7.2" />
13 <httpRuntime targetFramework="4.7.2" />
14 </system.web>
15 <system.webServer>
16 <modules>
17 <remove name="WebDAVModule" />
18 </modules>
19 <handlers>
20 <remove name="ExtensionlessUrlHandler-Int
21 <remove name="OPTIONSVerbHandler" />
22 <remove name="TRACEVerbHandler" />
23 <remove name="WebDAV" />
24 <add name="ExtensionlessUrlHandler-Integr
25 </handlers>
26 </system.webServer>
27 <runtime>
28 <assemblyBinding xmlns="urn:schemas-microso
29 <dependentAssembly>
30 <assemblyIdentity name="Antlr3.Runtime"
31 <bindingRedirect oldVersion="0.0.0.0-3
32 </dependentAssembly>
33 <dependentAssembly>
34 <assemblyIdentity name="Newtonsoft.Json"
35 <bindingRedirect oldVersion="0.0.0.0-1
36 </dependentAssembly>
37 </runtime>
38 </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>