

URL Rewrite - HTTP to HTTPS redirection for MachPanel Web Portal

Summary

This article provides information about steps to perform HTTP to HTTPS redirection for MachPanel Web Portal.

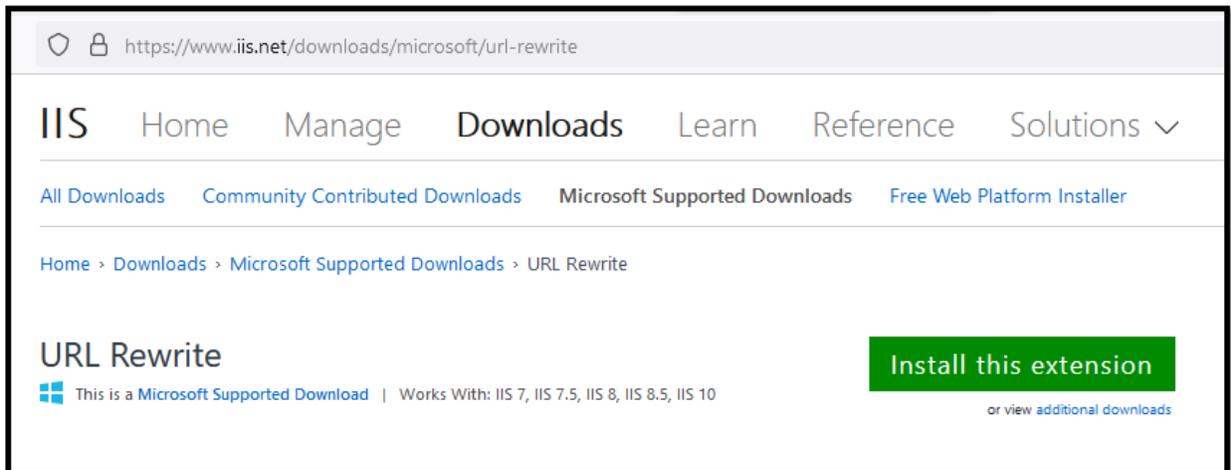
Applies To

Applies to MachPanel v6 and onward.

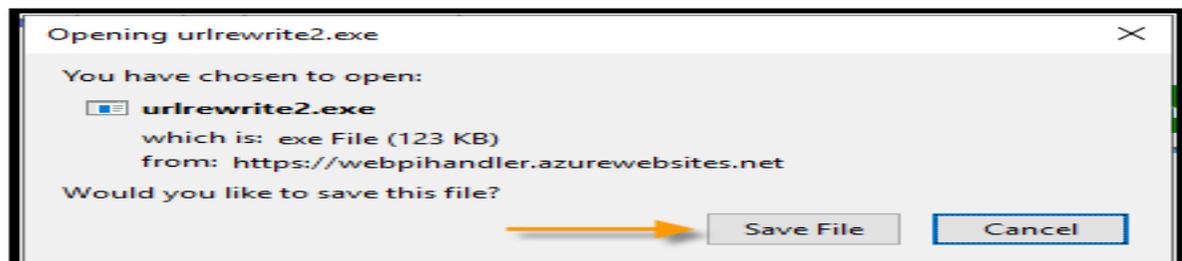
Steps to perform

- **DOWNLOAD AND INSTALL**

Download **“URL Rewrite”** from <https://www.iis.net/downloads/microsoft/url-rewrite> by clicking “Install this extension”:

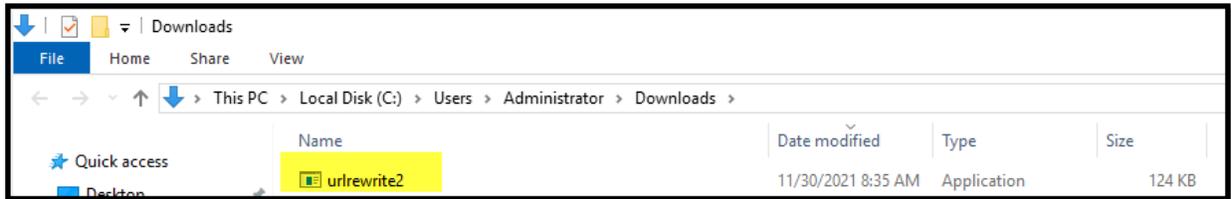


You will be asked to “Save File”

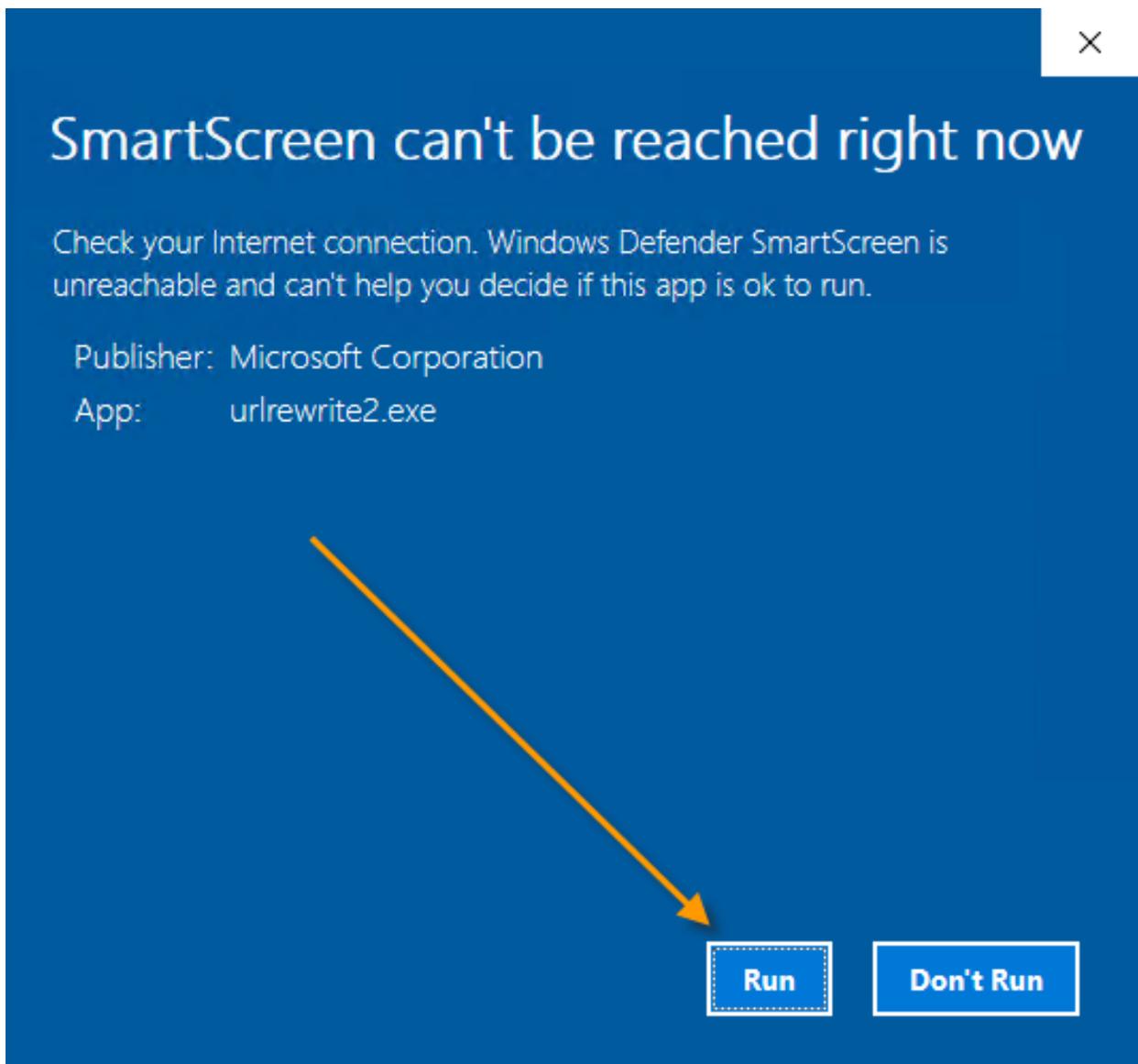


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Double Click the file after downloading it:

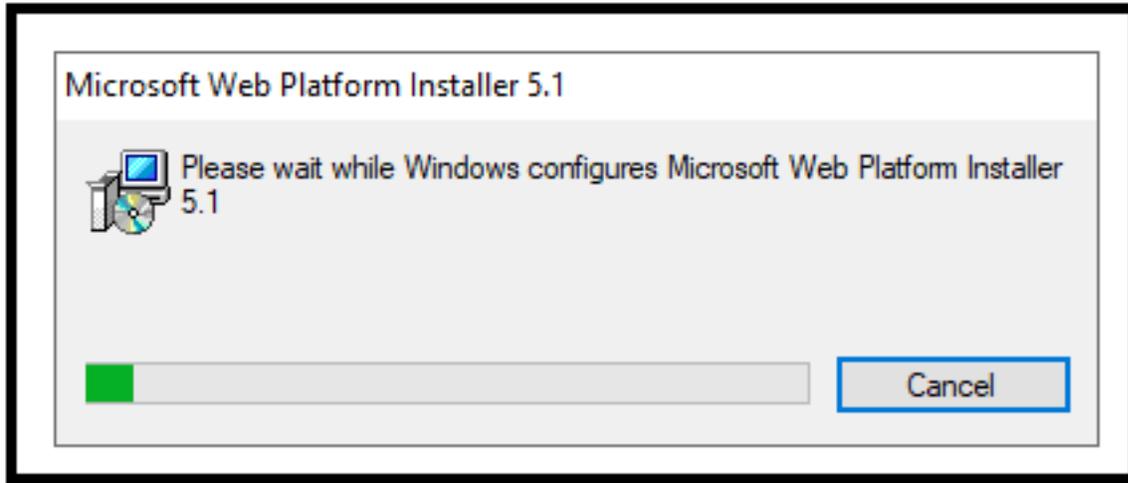


Hit "Run" if you get a security prompt:

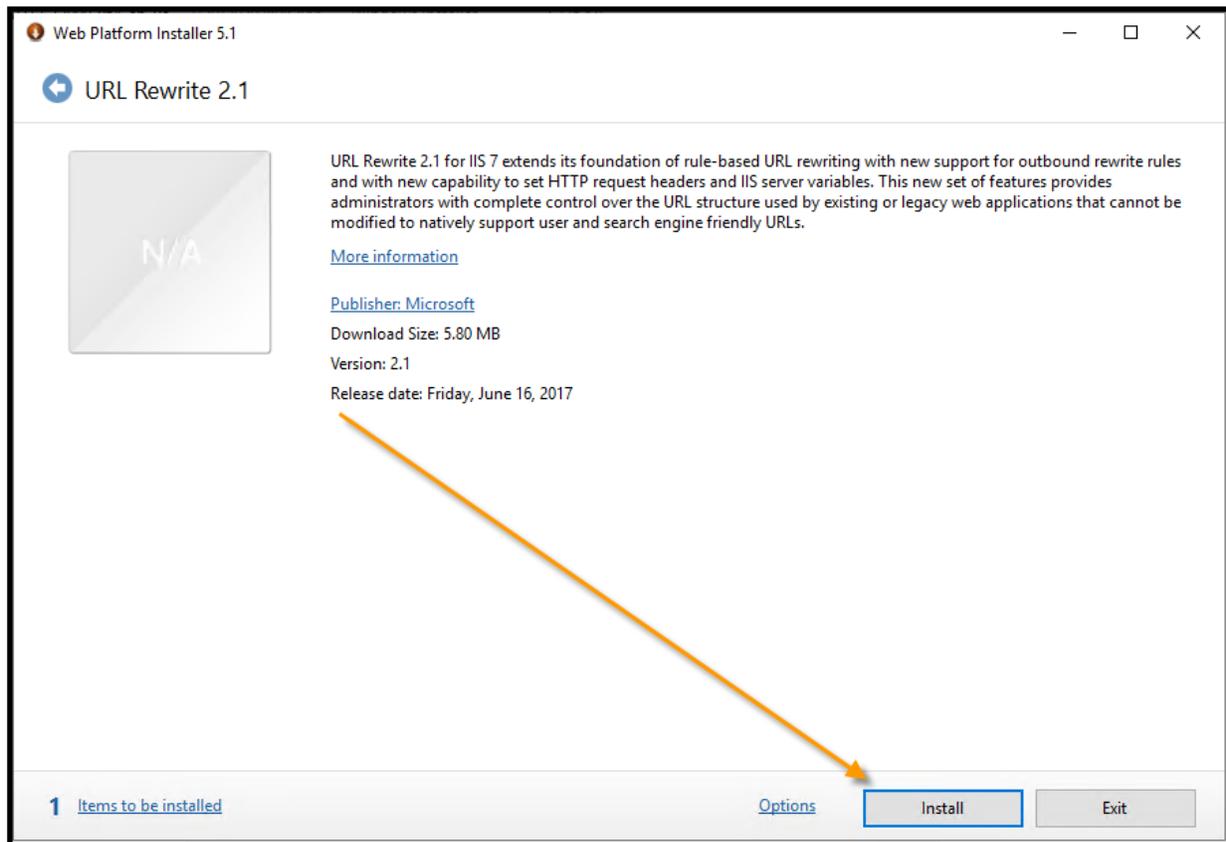


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Initialization will start:

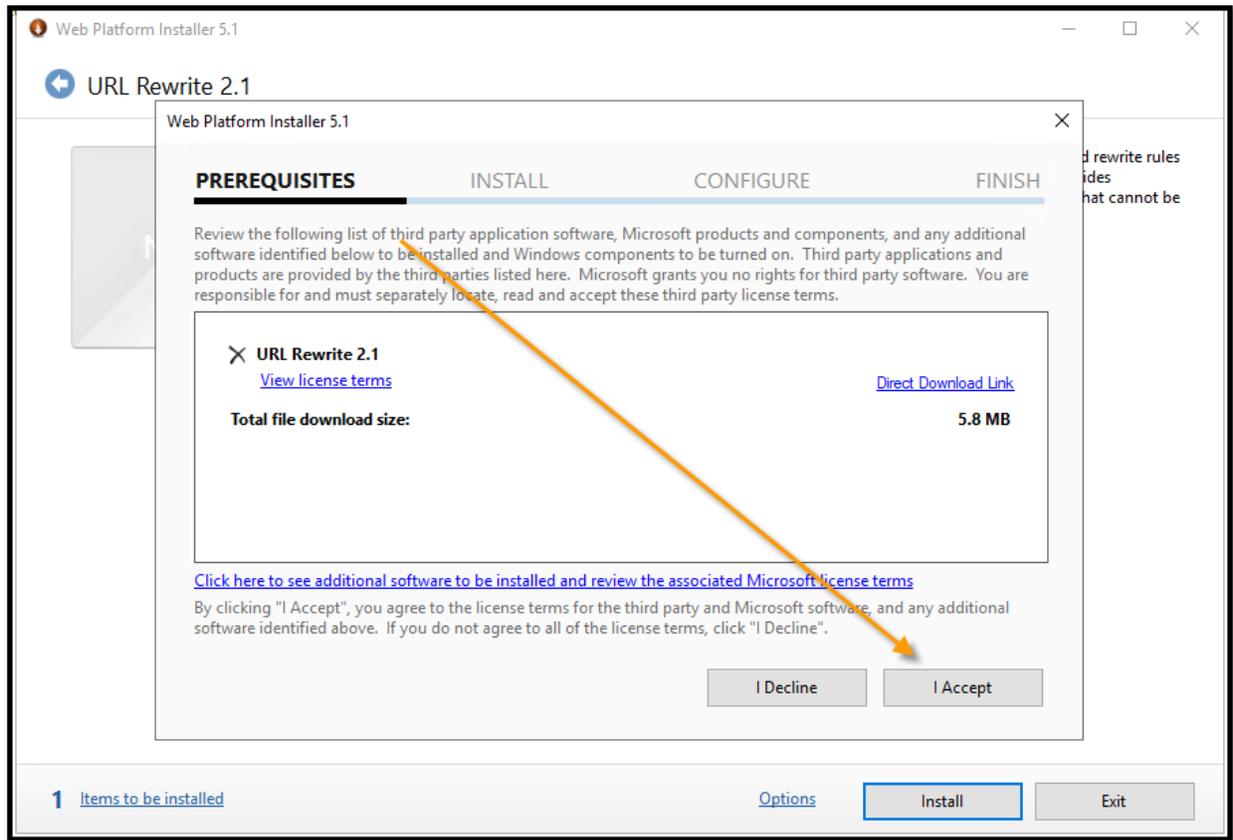


Hit Install button:

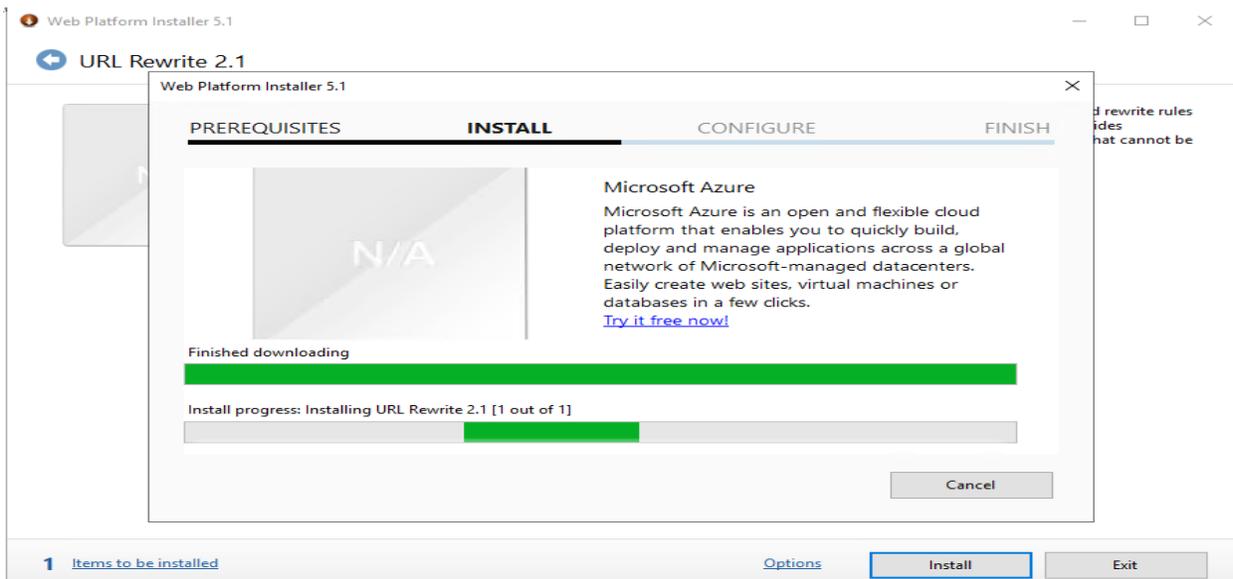


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Accept the terms:

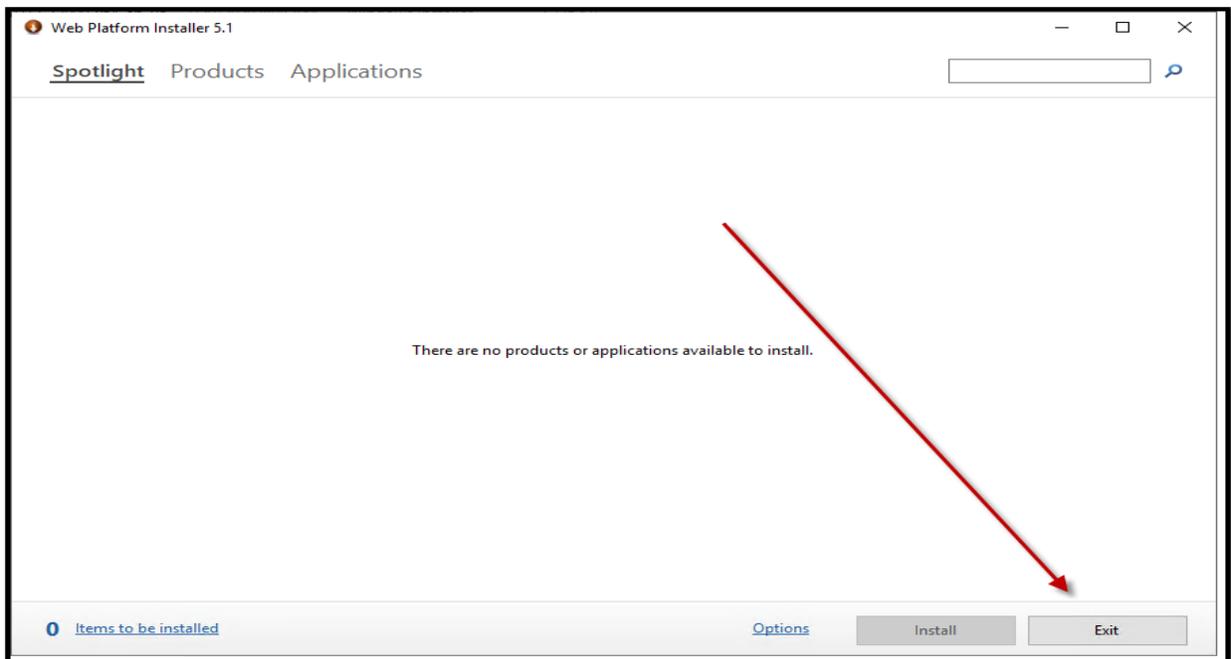
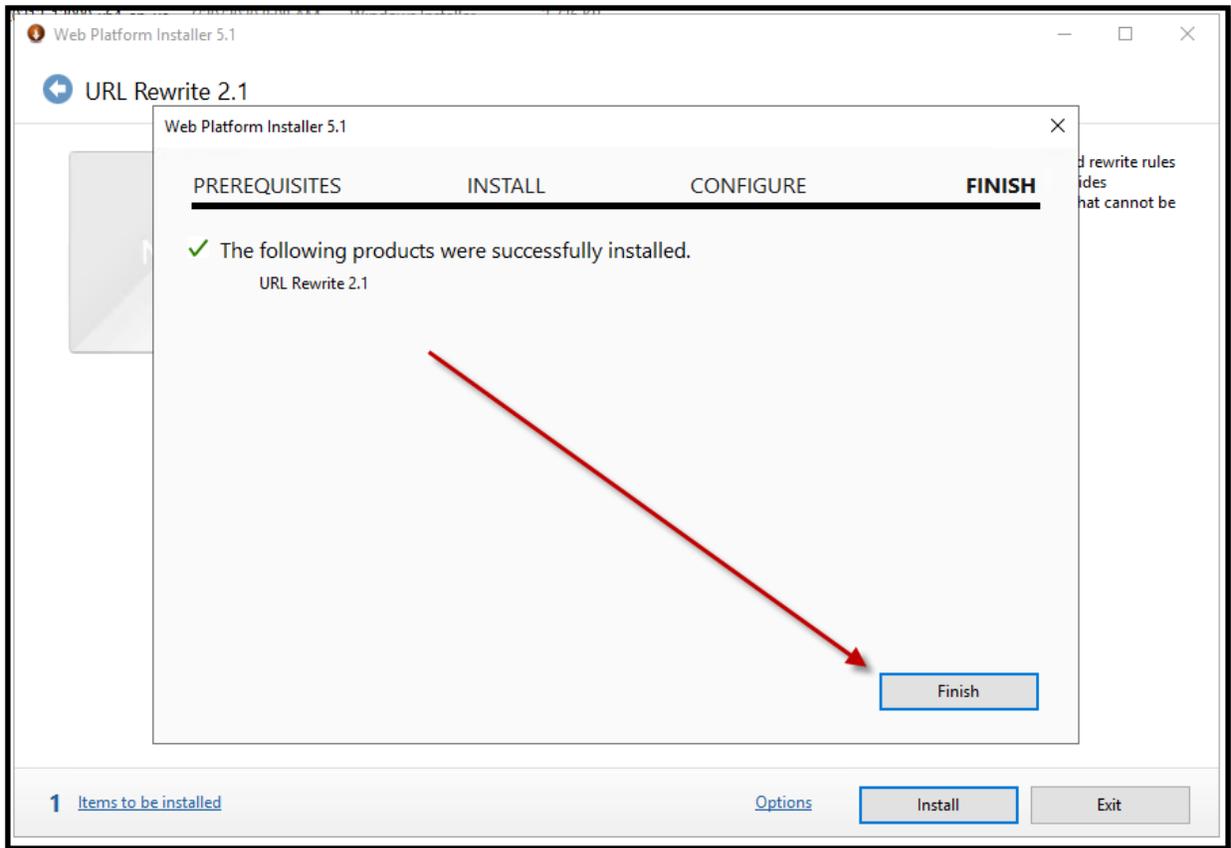


Installation begins:



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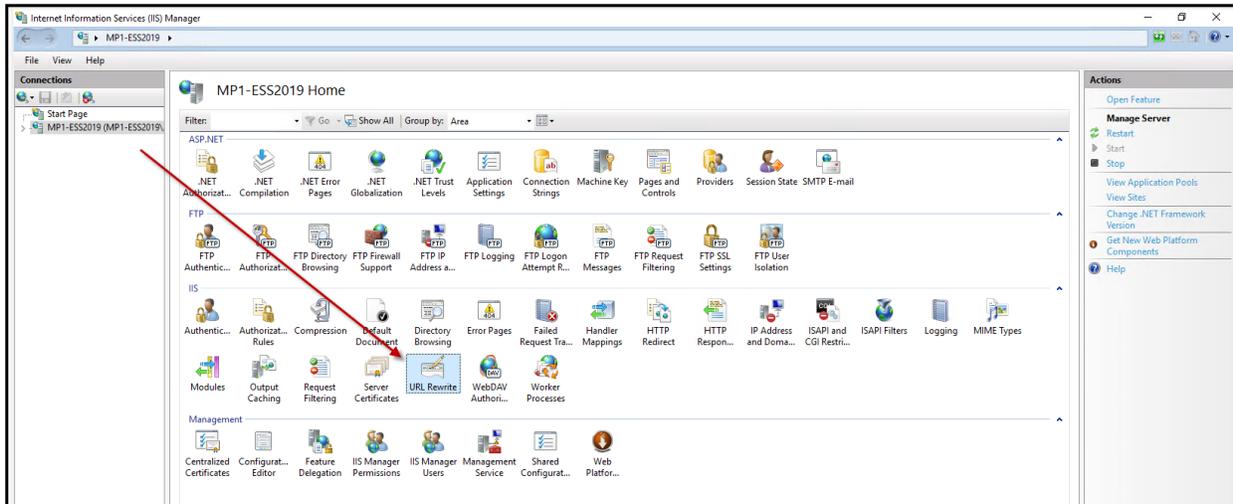
Hit Finish when done and exit installer:



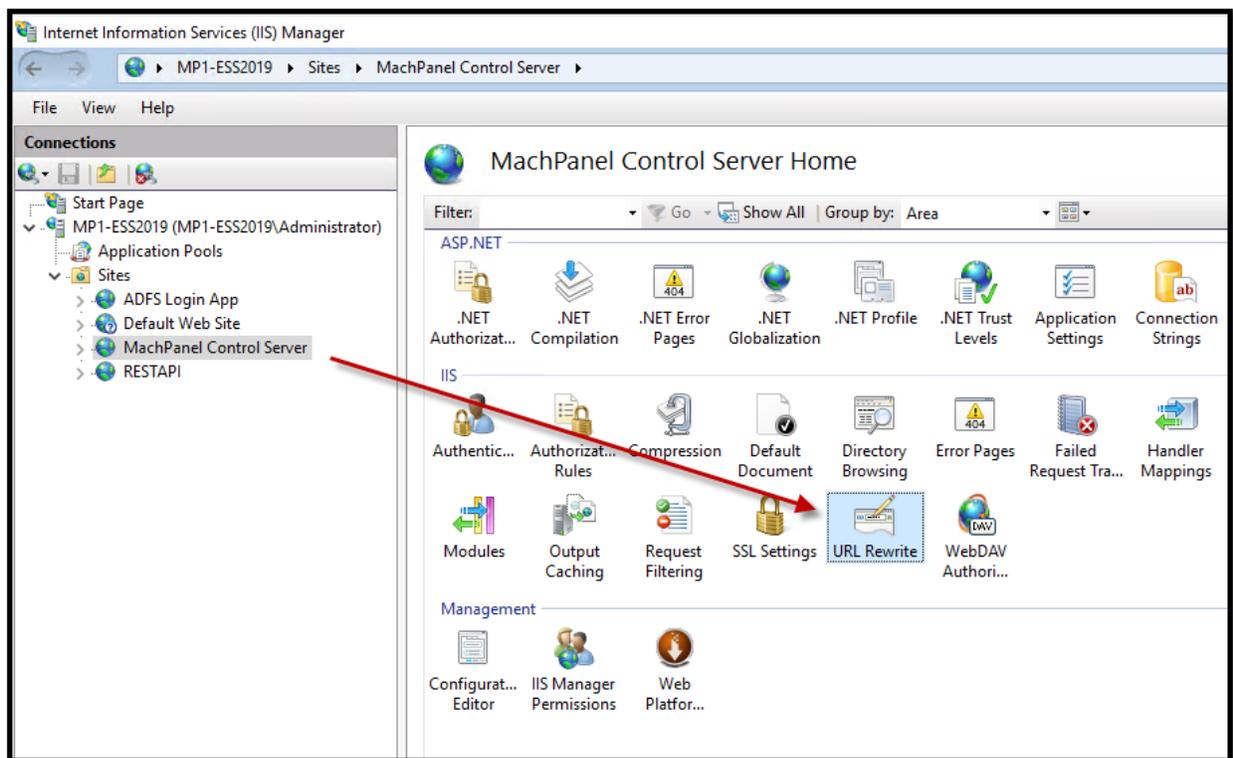
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- **CONFIGURATION AND TEST**

Open / Re-Open IIS Manager to see **URL Rewrite** module under IIS section:

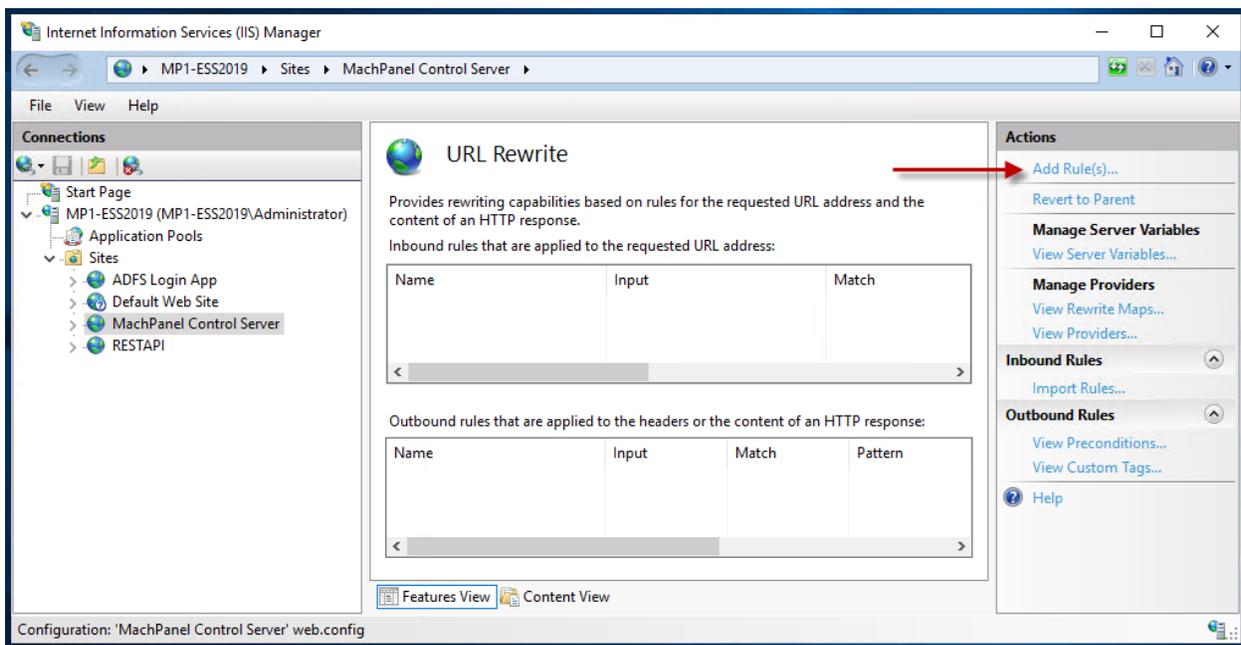


Click on **"MachPanel Control Server"** website under **Sites** and double click **"URL Rewrite"**:

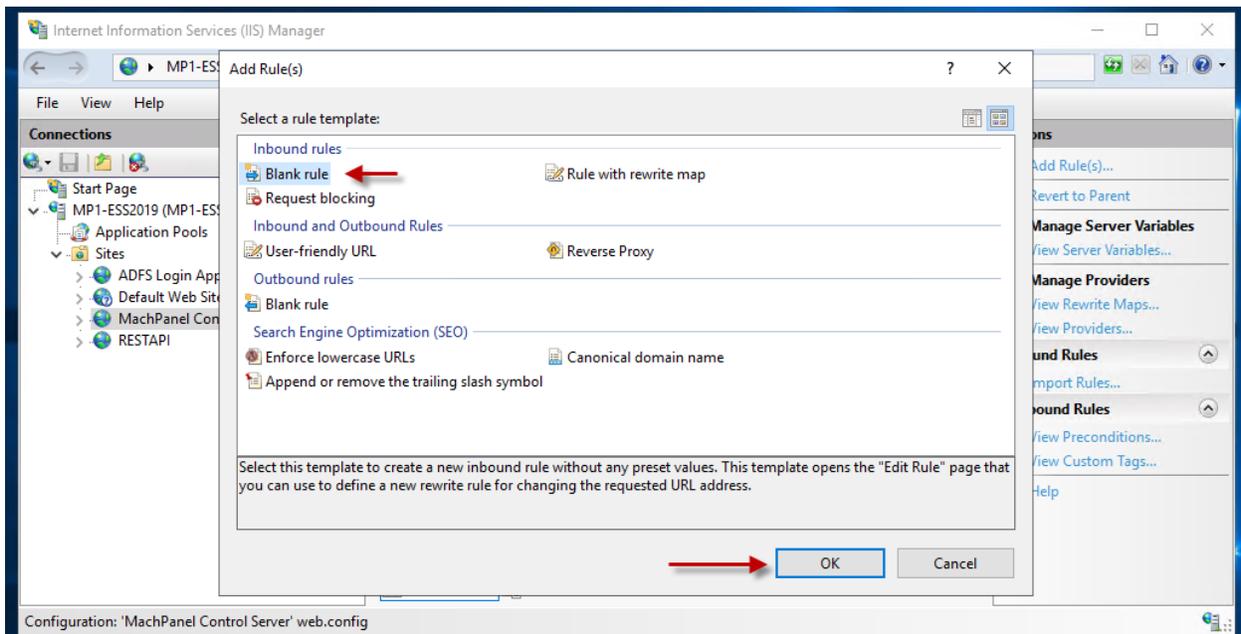


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Hit "Add Rule (s)":



Select **Blank rule** in the **Inbound rules** section, then click the **OK** button.



Give your redirect an easy-to-remember name.

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In the **Matched URL** section:

- o Set **Requested URL**: to Matches the Pattern.
- o Set **Using** to Regular Expressions.
- o Enter (.*) as the **Pattern**.
- o Check **Ignore case**.

The screenshot shows the 'Edit Inbound Rule' interface. The 'Name' field is 'HTTPS Redirect'. The 'Match URL' section is expanded, showing the following configuration:

- Requested URL:** Matches the Pattern (indicated by a red circle 1)
- Using:** Regular Expressions (indicated by a red circle 2)
- Pattern:** (.*) (indicated by a red circle 3)
- Ignore case:** (indicated by a red circle 4)

The 'Conditions' section is visible below, with 'Logical grouping' set to 'Match All'. At the bottom, there are buttons for 'Features View' and 'Content View'.

Scroll down to **Conditions** and expand the section if necessary. Select Match All for **Logical grouping**, then click the **Add...** button.

The screenshot shows the 'Edit Inbound Rule' interface with the 'Conditions' section expanded. The 'Logical grouping' is set to 'Match All' (indicated by a red circle 1). The 'Add...' button is highlighted (indicated by a red circle 2). Below the 'Conditions' section, there is a table with columns for 'Input', 'Type', and 'Pattern'. At the bottom, there are buttons for 'Features View' and 'Content View'.

Input	Type	Pattern

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A dialog box will open:

- Type {HTTPS} in the **Condition input** field.
- Set **Check if input string** to Matches the Pattern.
- Type ^OFF\$ in the Pattern field.
- Check **Ignore case**.
- Click the **OK** button.

The screenshot shows the 'Add Condition' dialog box with the following fields and controls:

- Condition input:** A text box containing '{HTTPS}' with a red box and the number 1 next to it.
- Check if input string:** A dropdown menu showing 'Matches the Pattern' with a red box and the number 2 next to it.
- Pattern:** A text box containing '^OFF\$' with a red box and the number 3 next to it. To its right is a 'Test pattern...' button.
- Ignore case:** A checked checkbox with a red box and the number 4 next to it.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom. The 'OK' button has a red box and the number 5 next to it.

You should now see your condition in the list.

The screenshot shows the 'Edit Inbound Rule' dialog box with the following elements:

- Ignore case:** A checked checkbox.
- Conditions:** A section with a 'Logical grouping:' dropdown set to 'Match All'.
- Table:** A table with columns 'Input', 'Type', and 'Pattern'. The first row is highlighted with a red box and contains: Input: {HTTPS}, Type: Matches the Pattern, Pattern: ^OFF\$.
- Buttons:** 'Add...', 'Edit...', 'Remove', 'Move Up', and 'Move Down' buttons on the right side.
- Track capture groups across conditions:** An unchecked checkbox at the bottom left.

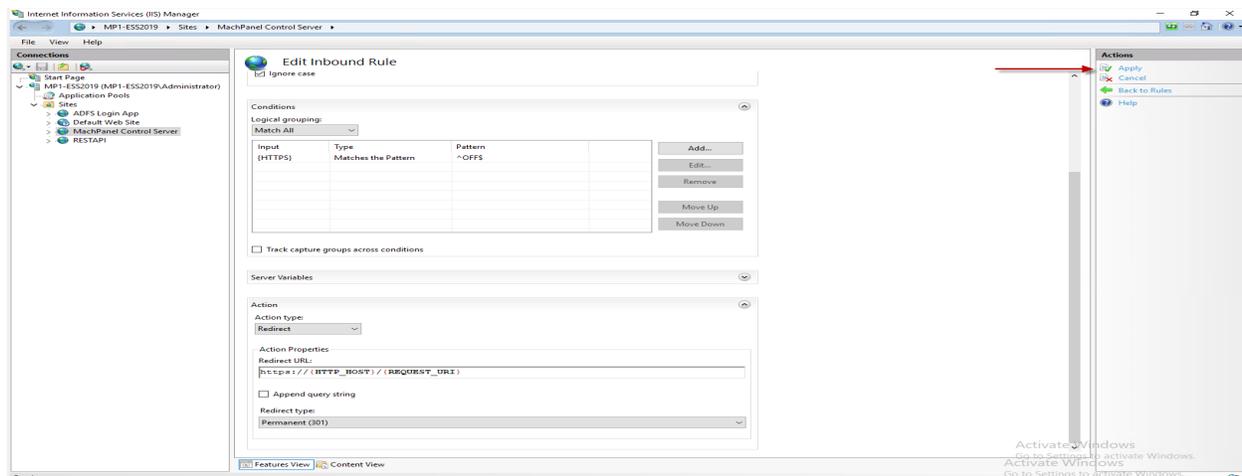
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Scroll down to the **Action** section and enter these settings:

- Select Redirect as the **Action type**.
- Type `https://{HTTP_HOST}/{REQUEST_URI}` in the **Rewrite URL** field.
- Uncheck Append query string.
- Set **Redirect type** to Permanent (301).



Click **Apply** in the right-hand **Actions** menu.



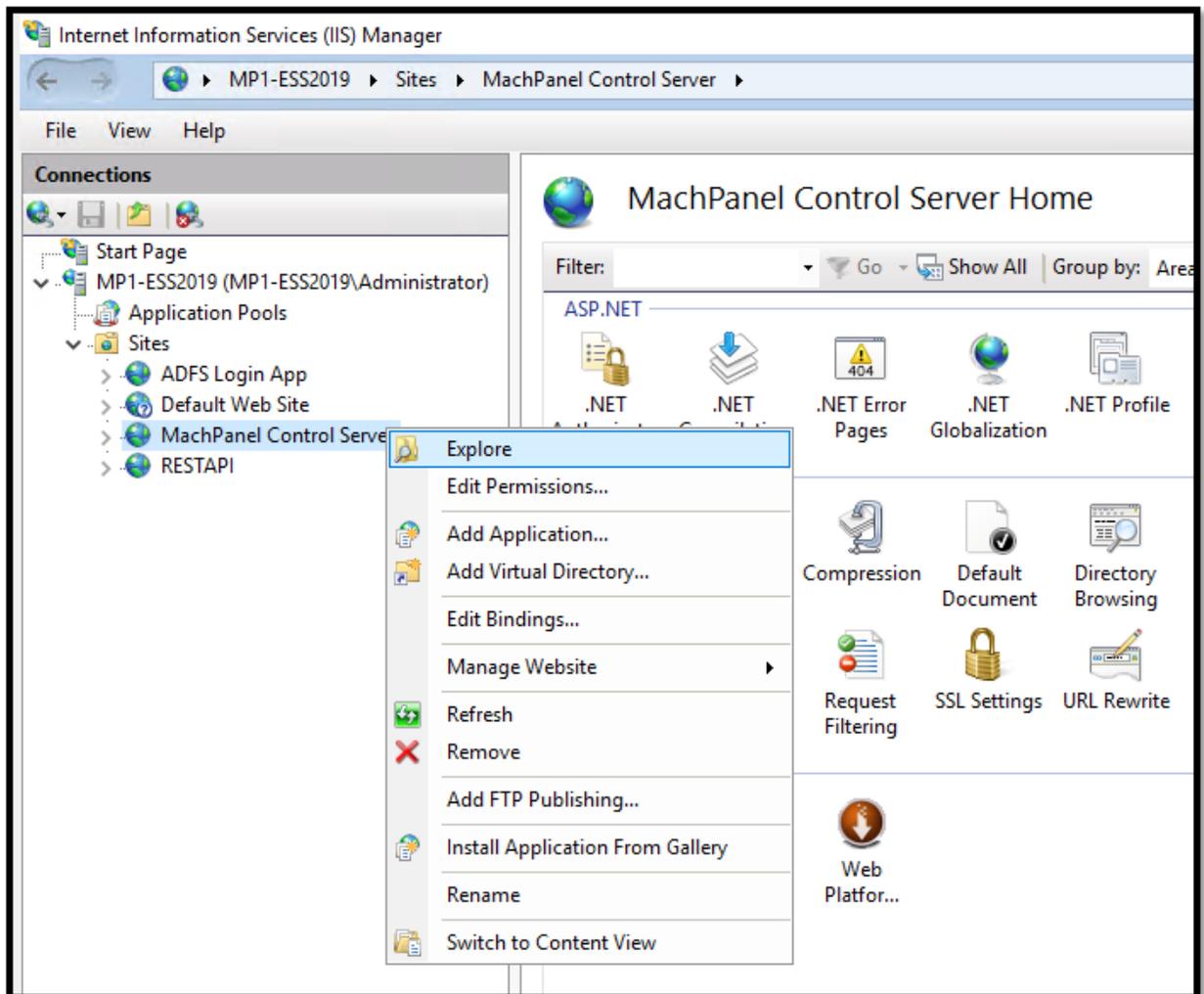
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You can now check your redirect in a web browser.

- **TROUBLESHOOT**

If there are any problems, you can check the site's **web.config** file to make sure it contains the correct information.

In IIS Manager, right-click your site and choose **Explore** from the menu.



Edit **web.config** or open it in a text editor.



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Verify that **web.config** contains the following text. If necessary you can create and/or modify this file:

```
<rewrite>
  <rules>
    <rule name="HTTPS Redirect" stopProcessing="true">
      <match url="(.*)" />
      <conditions>
        <add input="{HTTPS}" pattern="^OFF$" />
      </conditions>
      <action type="Redirect"
url="https://{HTTP_HOST}/{REQUEST_URI}" appendQueryString="false" />
    </rule>
  </rules>
</rewrite>
```

Note: above details should fall just above in the web.config:

```
</system.webServer>
```

MachPanel Knowledgebase

<https://kb.machsol.com/Knowledgebase/55666/URL-Rewrite-HTTP-to-HTTPS-redire...>