Implementing OTTAS on https://travel.ot.mn

July 25, 2024

Objective:

To securely implement the OTTAS on a public server accessible via https://travel.ot.mn, ensuring data integrity and security.

Prerequisites:

ottas-external application pool must be created

Step 1: Install ARR and URL Rewrite

Before configuring ARR, you need to ensure both ARR and the URL Rewrite modules are installed on your IIS server.

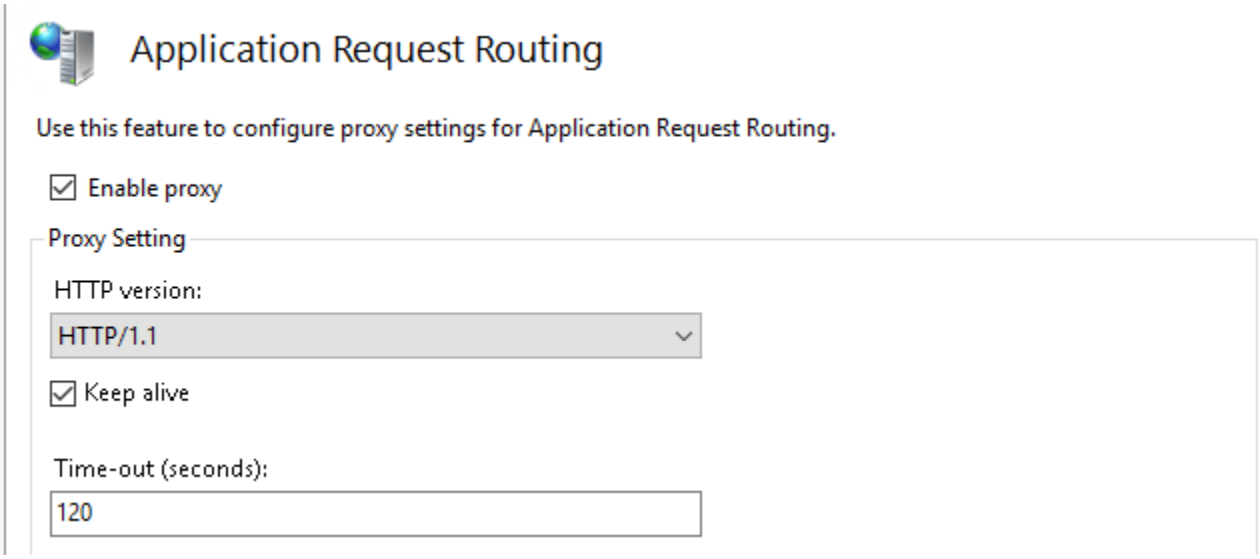
Download and Install the Web Platform Installer:

- Navigate to the Web Platform Installer download page and install it on your server.
- Open the Web Platform Installer and search for **"Application Request Routing"**. Include the URL Rewrite module if it's not already installed.
- Click "Add" and then "Install" to install the Application Request Routing and URL Rewrite modules.

Step 2: Configure Application Request Routing (ARR)

2. **Set Up ARR in IIS:**

   - Open IIS Manager.
   - Select the server node in the Connections pane.
   - Double-click on "Application Request Routing Cache" under the IIS section.
   - In the right-hand pane, select "Server Proxy Settings."
   - Check "Enable proxy" to activate ARR as a reverse proxy.
   - Configure other settings as necessary, such as timeout, response buffer size, etc.



Step 3: Create URL Rewrite Rules on OTTASEXTERNAL POOL

3. **Configure URL Rewrite Rules:**

   - Still in IIS Manager, select the site for which you want to set up redirection.
   - Double-click on "URL Rewrite."
   - Click "Add Rule(s)" and choose "Blank rule.

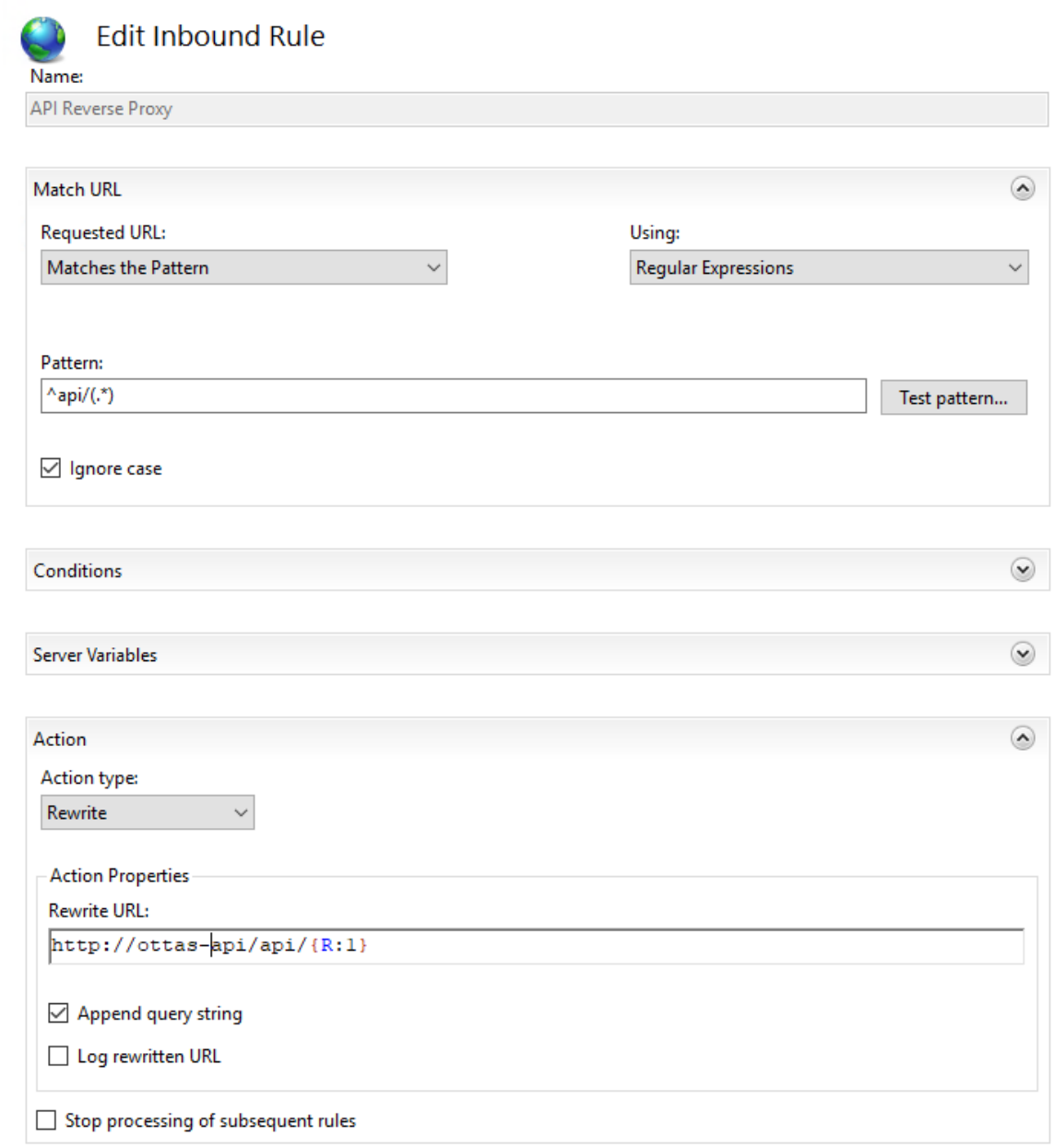
For API Proxy:

```
<rule name="API Reverse Proxy">
    <match url="^api/(.*)" ignoreCase="true" />
    <action type="Rewrite" url="http://ottas-api/api/{R:1}" />
</rule>
```

For Report Proxy:

```
<rule name="ReportProxy">
    <match url="^rapi/(.*)" />
    <action type="Rewrite" url="http://ottas-reportapi/{R:1}" />
</rule>
```

These rules will forward traffic from /api/ to **http://ottasapi/api/*** and /rapi/* to **http://ottasreport/*.***


Edit Inbound Rule
Name:
API Reverse Proxy
Match URL
Requested URL:
Matches the Pattern
Using:
Regular Expressions
Pattern:
^api/(.*)
Test pattern...
Ignore case
Conditions
Server Variables
Action
Action type:
Rewrite
Action Properties
Rewrite URL:
http://ottas-api/api/{R:1}
Append query string
Log rewritten URL
Stop processing of subsequent rules

Step 4: Test and Debug

4. **Testing the Configuration:**
    - After configuring, use a browser or a tool like Postman to test the URL forwarding to ensure it works as expected.
    - Check IIS logs and ARR cache logs if there are issues to diagnose problems.

Step 5: Monitoring and Adjustments

5. **Monitor and Adjust as Necessary:**

    - Monitor server performance and error logs.
    - Adjust server settings and rewrite rules as needed based on traffic patterns and errors.

Additional Tips:

- ✓ Make sure the target servers (ottas-api and ottasreport-api) are reachable from the IIS server.
- ✓ Use HTTPS where necessary, especially for production environments.
- ✓ Regularly update your IIS and Windows Server for security patches.

This guide sets up ARR with URL Rewrite in IIS to route API and reporting requests to different backend servers. Always test in a development environment before applying changes to production.