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Use Swagger UI to explore management REST APIs

OpenEdge®

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Use Swagger UI to explore management REST APIs

System administrators can use Swagger UI to explore the underlying management APIs for a running PAS for OpenEdge instance. Part of the larger OpenAPI Initiative, Swagger UI is an open source tool that generates an intuitive web page to explore and test REST APIs. Details are pulled directly from the underlying annotations ensuring that the documentation is always current. Test capabilities allow real-time access to the APIs. System administrators can view metrics, identify deployed applications, stop agents, and do much more through this interactive documentation.

Access to Swagger UI is disabled by default, to prevent unauthorized users from tampering with an instance.

In OpenEdge 12.0 and 12.1, Swagger UI is disabled by default on development instances. In OpenEdge 12.2, Swagger UI is enabled by default on development instances. Swagger UI should not be used in production.

See also:

- Enable Swagger UI for management REST API access on page 8
- Explore and test management REST APIs on page 8

For details, see the following topics:

- Enable Swagger UI for management REST API access
- Explore and test management REST APIs

Enable Swagger UI for management REST API access

Management REST API access requires `oemanager.war` be deployed. Create development instances with the `-f` option to deploy `oemanager.war`. Secure the instance by using the `-m` *`uid:password`* option to change the username and password from the default values. Start the instance at least once to create the `oemanager` folder structure containing the necessary configuration files.

Note: This topic applies to Swagger UI in OpenEdge 12.0 and 12.1. In OpenEdge 12.2, Swagger UI is enabled by default on development instances. Swagger UI should never be enabled in production.

Access to Swagger UI for management REST APIs is disabled by default. Direct access to management APIs through Swagger UI is considered a security risk. Explicit authorization is required. Limit access to the administrator roles within the organization. Restart the server to apply the security changes. To enable Swagger UI:

1. Edit the *`instance-path`*`\webapps\oemanager\WEB-INF\oemgrSecurity-container.xml` security file.
2. Find the intercept URL for the interactive documentation, by searching the file for `<intercept-url pattern="/doc/**"`.
3. Uncomment the line containing `<intercept-url pattern="/doc/**` that authorizes specific roles to use the interactive documentation.
4. Save the file.
5. Restart the server to apply the changes:

   ```
   pasman pasoestart -restart -I instance-name
   ```

6. Enter `http://`*`host`*`:`*`port`*`/oemanager/` to show the management REST API documentation, confirming that authorization was correctly defined. Login credentials are required to ensure only administrators have access.

Explore and test management REST APIs

Access to Swagger UI is disabled by default. To enable this functionality, see Enable Swagger UI for management REST API access on page 8.

In this example, explore the **SessionManager** APIs and get all the available applications for an instance. Based on the response, use the **Agent Manager** getAgent API to get the PID for the agent currently running a named application. To explore and test a REST API:

1. Enter `http://`*`host`*`:`*`port`*`/oemanager/` in a browser to access interactive documentation, and provide the appropriate login credentials when prompted.
2. Verify that `oemanager` is the selected **Server**.
3. Scroll to **SessionManager** and expand the list of available APIs.
4. Click on **GET** for the `/applications - Get All Applications` to expand the description based on the underlying annotations.

5. Click **Try it out** to supply request parameters and click **Execute** to retrieve a list of available applications.

   The response body is JSON formatted and the `applicationName` element provids details about the deployed applications, including which transports are enabled for the application and the version information.
6. Take note of the `applicationName` for use as the request body to find the Agent running the application.
7. Expand the **Agent Manager** section.
8. Click **/applications/{appName}/agents Get Agents**.
9. Click **Try It Out**.
10. Enter the `applicationName` returned in the earlier step into the Parameters **AppName** field.
11. Click **Execute**.

    The response returns a **PID**, for use with API requests.

For more information, see Monitor PAS for OpenEdge.