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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 much more through this interactive documentation.

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

See also:

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

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 of `tomcat:tomcat`. Start the instance, at least once to create the oemanager folder structure containing the necessary configuration files.

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, complete the following steps:

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/**` authorizing specific roles to use the interactive documentation.
4. Save the file.
5. Restart the server to apply the changes.

   Use `pasman pasoestart -restart -I` *instance* to restart.
6. Enter `http://`*host*`:`*port*`/oemanager/` to show the management REST API documentation confirming that authorization has been correctly defined. Login credentials are required ensuring 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 5.

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, complete the following steps:

1. Enter `http://`*host*`:`*port*`/oemanager/` in a browser to access interactive documentation.

   a) 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 **Execute** the API to retrieve a list of available applications.

   The response body is JSON formatted and the `applicationName` element provided 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 on the `/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 on managing PAS for OpenEdge instances see, Introduction to PAS for OpenEdge