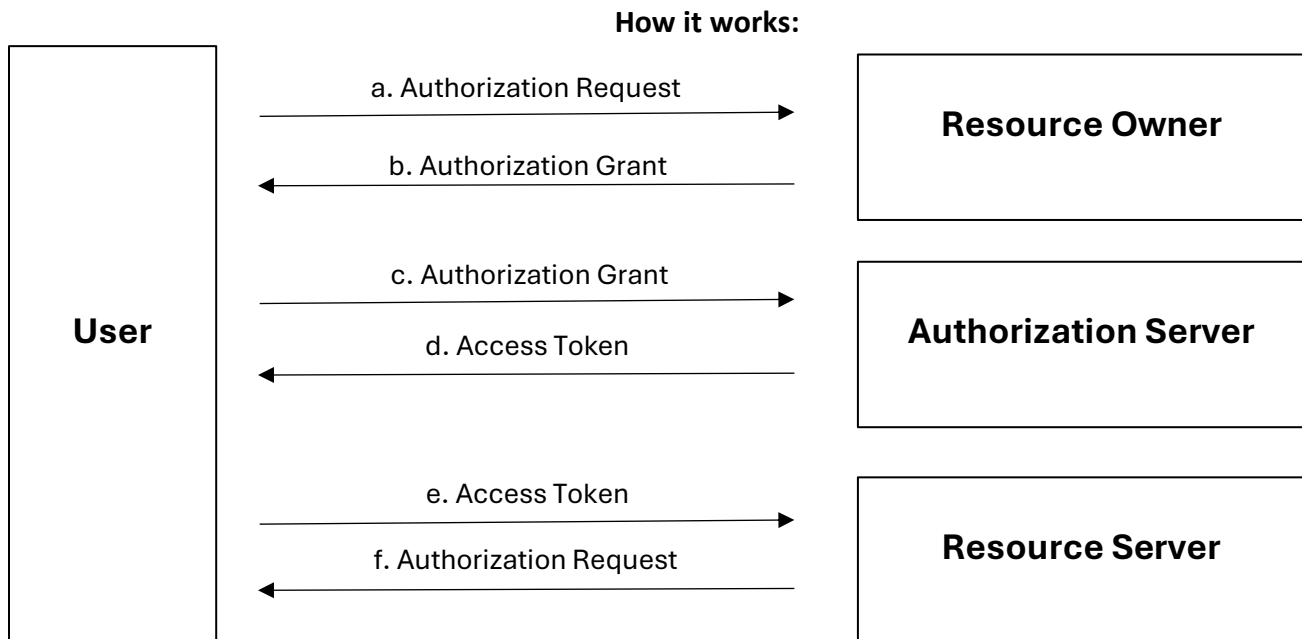


## OAuth 2.0 Setup

### OAuth 2.0:

OAuth 2.0 is a token-based system for authentication where we provide client id and client secret and then we hit the API we will be received that token and If we hit that token with that Service we will geting the details.



- First, the user asks Authorization Request for the Resource owner.
- Resource owner will be giving client Id and client Secret.
- Using he Client Id and Client Secret the user will generate a token by hitting the Authorization Server.
- If the credentials matches with the profile then It will generate a token.
- Using that Access Token if we hit the resource Server it will be giving us the desired results.

#### NOTE:

- A single token will be valid for around a certain period of time usually we can configure this time according to the requirement.
- We can revoke the access of that client id and Client secret anytime.

## Steps to Setup OAuth 2.0 Authentication for Service Rest:

1. There is a Service Rest rule that we have named as “**GetOrderDetails**” which is belonging to the service Package named “**Poc\_API**”. This Rule is used to get order details according to the order no.

### Service REST:

The screenshot shows the 'Service REST: GetOrderDetails [Available]' configuration page. The top bar includes the ID 'Poc\_API - v1 - orders7442a29d7d53e549b78d93c46b8cdcf' and the service name 'MySvc:01-01-01'. Below the top bar are tabs for 'Service', 'Methods', 'Specifications', 'OpenAPI', and 'History'. The 'Service' tab is active, showing 'Resource properties' and 'Processing options'.

**Resource properties**

Resource: DHFC-DHF-Data-Orders

Service endpoint URL: https://prweb/api/Poc\_API/v1/Orders

URI template: Orders

URI path parameters:

Name	Description	Map to	Map to key
No items			

**Processing options**

☐ End Requestor When Done

☐ Method is read-only

Execution mode: Execute synchronously

Request processor:

Service monitoring: Off

Service package (includes additional processing options): Poc\_API

☐ Enable service SLA with fallback activity

Lightweight clipboard mode: Provide values (selected), Use application settings

☐ Enable

### Service Package:

The screenshot shows the 'Edit Service Package: Poc\_API' configuration page. The top bar includes the ID 'Poc\_API' and the service name 'DHFCint'. Below the top bar are tabs for 'Context', 'Pooling', 'Open API', and 'History'. The 'Context' tab is active, showing 'Processing mode', 'Service access group', 'Requires authentication', 'Authentication type', and 'Methods'.

**Context**

Processing mode: Stateless

Service access group: DHFC:Authors

☒ Requires authentication

Authentication type: Basic

☒ Require TLS/SSL for REST services in this package

☒ Suppress Show-HTML

☐ Treat REST request without Content-Type as binary data

☐ Enable Declarative Processing for REST Service Automation Inputs

**Methods**

Service type: Rule-Service-REST

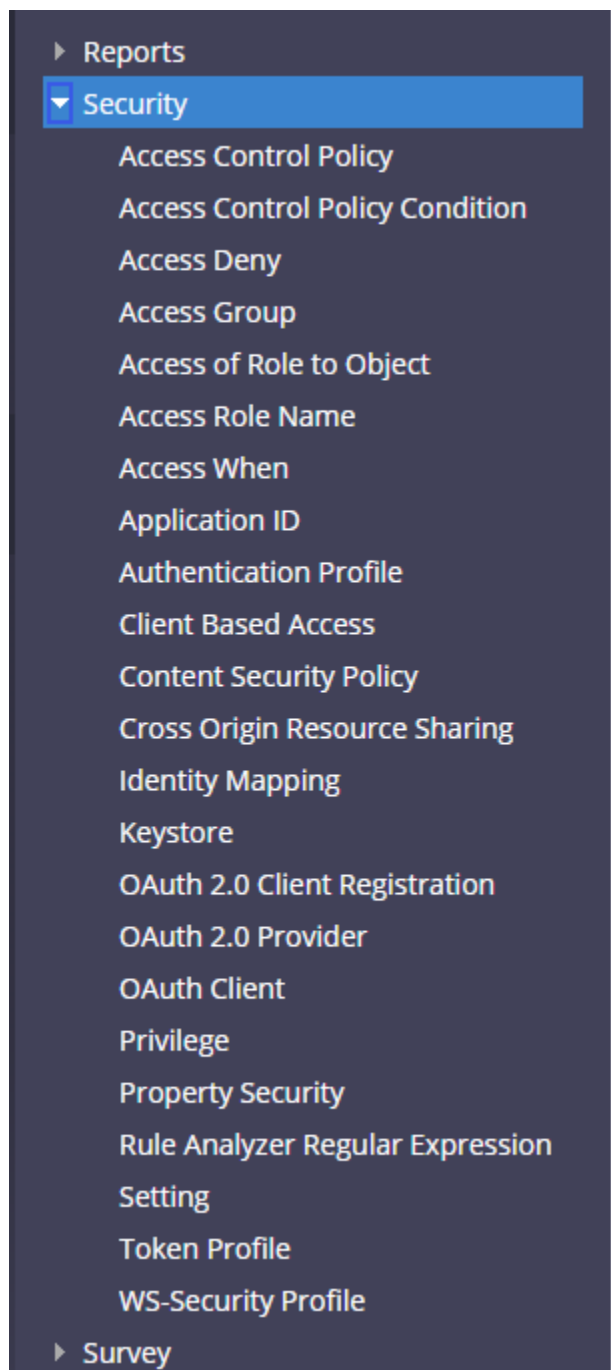
Service monitoring: As defined on service rule

Refresh

Clear invocation history

Version	Resource path	Ruleset	Invocation history
v1	Orders	MySvc01-01-01	View invocation history

2. Now currently the service package is under the “**Basic**” Auth which is needed to provide Operator credentials. Now to expose this Service Rest with OAuth 2.0 Authentication we need to create a Rule named OAuth 2.0 Client Registration. First we need to go to records.



3. In Security we find OAuth 2.0 Client Registration. Open that and try to create a new one.

Instances of OAuth 2.0 Client Registration				Create	Refresh	X
				Page 1 of 8		
Client Name*	Name	Updated on	Updated by			
PegaApp_MemberEnr	PEGAAPP_MEMBERENR	October 15, 2025 7:12:44 AM EDT	System			
PegaApp_MedicareOpsEnr	PEGAAPP_MEDICAREOPSEN	October 15, 2025 6:13:51 AM EDT	System			
PegaApp_MemberEn_2	PEGAAPP_MEMBEREN_2	October 15, 2025 6:10:53 AM EDT	System			
PegaApp_MemberEn_1	PEGAAPP_MEMBEREN_1	October 15, 2025 5:59:41 AM EDT	System			
Mobile_Default Mobile_8	MOBILE_DEFAULT MOBILE_8	October 15, 2025 5:51:30 AM EDT	System			
PegaApp_CWVAPlat	PEGAAPP_CWVAPLAT	October 15, 2025 5:41:29 AM EDT	System			
PegaApp_MemEnrolment	PEGAAPP_MEMENROLMENT	October 15, 2025 5:25:55 AM EDT	System			
PegaApp_MemberEn	PEGAAPP_MEMBEREN	October 15, 2025 3:37:26 AM EDT	System			
PegaApp_MedicareOps	PEGAAPP_MEDICAREOPS	October 15, 2025 2:52:03 AM EDT	System			
PegaApp_EnrollmentOps	PEGAAPP_ENROLLMENTOPS	October 15, 2025 2:43:32 AM EDT	System			
PegaApp_ClaimsManagement1	PEGAAPP_CLAIMSMANAGEMENT1	October 13, 2025 7:12:48 PM EDT	System			
Mobile_Default Mobile_7	MOBILE_DEFAULT MOBILE_7	October 10, 2025 5:09:47 AM EDT	System			
PegaApp_Admin	PEGAAPP_ADMIN	October 10, 2025 5:09:39 AM EDT	System			
PegaApp_SVRGeneral	PEGAAPP_SVRGENERAL	October 10, 2025 2:12:19 AM EDT	System			
DX-ComponentDev	DX-COMPONENTDEV	October 9, 2025 11:01:56 PM EDT	Obulareddy.Reddy@coforge.com			
DX-CustomComponents	DX-CUSTOMCOMPONENTS	October 9, 2025 3:06:31 AM EDT	Yellagari.Bhasker@coforge.com			
PegaApp_TrackEvents	PEGAAPP_TRACKEVENTS	October 8, 2025 9:54:46 AM EDT	System			
Mobile_Default Mobile_6	MOBILE_DEFAULT MOBILE_6	October 8, 2025 9:34:45 AM EDT	System			
PegaApp_TrackMeeting	PEGAAPP_TRACKMEETING	October 8, 2025 9:34:35 AM EDT	System			
Mobile_Default Mobile_5	MOBILE_DEFAULT MOBILE_5	October 8, 2025 7:19:52 AM EDT	System			
PegaApp_TrackMee	PEGAAPP_TRACKMEE	October 8, 2025 7:19:46 AM EDT	System			
Mobile_Default Mobile_4	MOBILE_DEFAULT MOBILE_4	October 8, 2025 1:52:04 AM EDT	System			

Create OAuth 2.0 Client Registration

Cancel

Create and open

OAuth 2.0 Client Registration short description \*

OrderInfo

Client Name

must start with a letter

4. There is a New rule is being created where we can see that all the endpoint links in the details and few Buttons:

- **Regenerate Client Secret:** To Regenerate the client secret of an existing Authentication.
- **Revoke Access And Refresh token:** This to revoke the access anytime for the given credentials.
- **View & Download:** This will appear only one time at the time of this rule creation after saving the rule this will disappear now we need to click on this to see the client Id and client secret which needed to be shared with the consumers for temporary access.

Edit OAuth 2.0 Client Registration: OrderInfo

Actions

Save

X

ID: OrderInfo

RS: No associated ruleset

[Edit]

Client Information

History

Client Credentials

Type of client

☒ Confidential
 ☐ Public

Client ID

127891685686408850

Client secret

.....

Author

https://...../prweb/PRRestService/oauth2/v1/authorize

Access token endpoint

https://...../prweb/PRRestService/oauth2/v1/token

Token

https://...../prweb/PRRestService/oauth2/v1/revoke

JWKS endpoint

https://...../prweb/PRRestService/oauth2/v1/token/keys

Token introspection endpoint

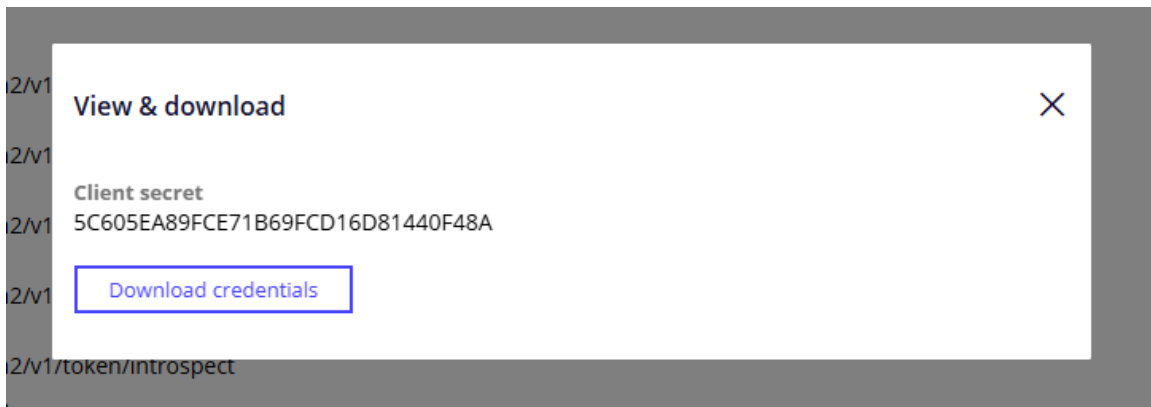
https://...../prweb/PRRestService/oauth2/v1/token/introspect

A secure TLS access token endpoint is required at runtime.

Regenerate client secret

Revoke access and refresh token

View & download



5. Download the credentials for sharing with consumer. In the download file we can see this:

```
Client ID
127891685686408850
Client Secret
5C605EA89FCE71B69FCD16D81440F48A
Authorization endpoint
https://                               /prweb/PRRestService/oauth2/v1/authorize
Access token endpoint
https://                               /prweb/PRRestService/oauth2/v1/token
Token revocation endpoint
https://                               /prweb/PRRestService/oauth2/v1/revoke
JWKS endpoint
https://                               /prweb/PRRestService/oauth2/v1/token/keys
Token introspection endpoint
https://                               /prweb/PRRestService/oauth2/v1/token/introspect
```

6. We have other Options in the rule where we will be configuring few more things like:

**Grant Type:** This is specific Option where we are configuring to which kind user can access and generate tokens for consumers. There can be single type or they can be multiple types that can be accessed simultaneously.

Supported grant types

☐ Authorization code
   
☒ Client credentials
   

Set operator context using

☐ Operator ID
☒ Access group

Access group

DHF:Authors

  
☐ Password credentials
   
☐ SAML bearer
   
☐ JWT bearer
   
☐ Custom bearer

Token management

Token expiry

Access token lifetime (in seconds)

3600

In this I am configuring it with client credentials and Putting it in as Access group. And configured the time that token will be valid. The default time is 60 min.

7. Now go to the Service Package and change the authentication type to OAuth 2.0. you don't need to mention which OAuth2.0 rule in service package as PEGA Picks automatically according to the client Id. That's why we have different OAuth for different services.

**Edit Service Package : Poc\_API**  
ID: Poc\_API RS: DHFInt [Edit]

Context Pooling Open API History

**Context**

Processing mode  
Stateless ▾

Service access group  
DHF:Authors

☒ Requires authentication

Authentication type  
OAuth 2.0 ▾

☒ Suppress Show-HTML

☐ Treat REST request without Content-Type as binary data ?

☐ Enable Declarative Processing for REST Service Automation inputs ?

8. Now all the configuration from Pega side is Completed. Now for testing the connectivity and functionality we will be using Postman.
9. Open the Post Man and paste the token end point URL in the link area with POST method.

```
Client ID
12789168568686408850
Client Secret
5C605EA89FCE71B69FCD16D81440F48A
Authorization endpoint
https://prweb/PRRestService/oauth2/v1/authorize
Access token endpoint
https://prweb/PRRestService/oauth2/v1/token
Token revocation endpoint
https://prweb/PRRestService/oauth2/v1/revoke
JWKS endpoint
https://prweb/PRRestService/oauth2/v1/token/keys
Token introspection endpoint
https://prweb/PRRestService/oauth2/v1/token/introspect
```

In the Authorization Tab Provide the CClient id in the Username and client secret in the password. And hit the API there will be token generated.

**New Collection / Token gen**

Save Share

---

**POST** https://prweb/PRRestService/oauth2/v1/token

Send

---

Params Authorization Headers (11) Body Scripts Settings Cookies

### Auth Type

Basic Auth

The authorization header will be automatically generated when you send the request. Learn more about [Basic Auth](#) authorization.

Username: 95112438630479445934

Password:

---

Body Cookies (1) Headers (7) Test Results 200 OK • 1.08 s • 1.2 KB Save Response

{ } JSON Preview Visualize

```

1 {
2   "access_token": "eyJraWw0IjoiZDBCMUI5NzI5NTQ4NjdBMtQMUY1QTE4ODAwNDkzQiIsInR5cCI6IkpXVCIsImFSc2YyIjJmTjU2In0.eyJhdWUiOiJmcm46OTUxMTI0Mzg2MzA0Nzk0NDU5MzQlClJzdWIiOiI5NTE5MjQzODYzMdQ3OTQ0NTkzNCIsImFwcF9uYW11IjoieREHGiwbmJmIjoXNzYwNTkwNTkiL3JCjhcHBmdVyc2VlbvI6IjAxLjAxLjAxIiwiaXNzIjoIdXJuOmNmVm9yQ2UwMi5wZWdhbgGficySpbyIsImV4Ci6MTc2MDU0NDE5NywiaWF0IjoXNzYwNTkwNTk3L3JCjweU9wZXJhdG9yQ29udGV4dCI6IkFjY2VzcyBHcm91cCIsImpoOiI6IjRTY2QjVB00ZB0UNFNdkxOEFFNjRBNkZGQzA5Q0E0Iiwib3BlcmF0b3JfYWVnYjXZNzIjoieREHGokf1dGhvcnMifQ.UozVM_gnv7pqtzBaun43jnHlXpaO6IWvmymZ35Kb-_JSqjhQtASB3cgfuV-jd3FXDQV-4qTQGf2twQYMF_075eRts2lkztINr3vhxlnbu2UmivJoU_BQdxrG3-BzJW3cD3JKMQsdF0ZgAMHNRTmHqnYvOjOcKCBUTCEE-2q0jiBkZL4-IsldVR3jMBYgxZNYz8Ld3_gLcNoH0tifv32spCrPQofuec03f90xqHZYPxkt_lxmIQIRh_gkG2Y5KENncIEQQ2WvbL7DwxXdfCnxLYE1qhRqTRY1dkhfUJ39f9CSFU93WnOvfXGd33uc4EztwtMT_5MmsMH52Fzhsg5-2iBYm0zklfXk6hkLqnCh3-Q0HzPcqDJOZJ0ZJPpEQCTgkW8uchpe-LQ625KFikNRht66ueAgCOUPmNVWhU0RfFKbq61k4f3mTYEUrgVjuwC8ZgdTJDVeKyDoDb9XPX90yGiJrCKfGI583zcHcvKg_gyeOFskV9imoJ3Lr4HuYrC5bcFHqlVzOxdHxPJKRQMu2nx60lfQC3XAUXaAYbtigX-51LTWC14AaIAhxzBTn4QPaYxxS63CrVKm3j4B2pjihAtlpnoSh5vgMAAAARDqttrcqlx0tsscKhBRxzfiAf-hTTtm-hhDY46GmLiWlyJMF5HQlwyVxAJA6V7-s40",
3   "token_type": "bearer",
4   "expires_in": 3600
5 }
```

10. Now copy that access token and then paste it in the authorization token Gen and then hit the API then we see the results.

The screenshot displays the Postman application interface. At the top, a new collection named 'Get orders' is selected. The request method is set to 'GET' and the URL is 'https://.../prweb/api/Poc\_API/v1/Orders?OrderNo=9'. The 'Authorization' tab is active, showing 'OAuth 2.0' as the auth type. The 'Current Token' section shows a token generated by 'Token Gen', with the token value 'Inxw5XTei2QzcpNRwnKTEJb1rLjMNU' highlighted in a yellow box. The token expires at 11:28 AM today. The 'Header Prefix' is set to 'Bearer'. The 'Auto-refresh Token' toggle is turned on. The 'Body' tab is selected at the bottom, showing a JSON response with the following structure:

```
1 {
2   "CustomerName": "Kyree Rosario",
3   "OrderNo": "9",
4   "Product": "TV",
5   "PType": "HusApl",
6   "pxObjClass": "DHFC-DHF-Data-Orders"
7 }
```

The response status is '200 OK' with a response time of 1.22 s and a size of 356 B. The 'Save Response' button is visible.