

Objectifs

- Créer un programme rpg **LSTDVD** destiné à être publié en Web Service.
- Déployer un web service SOAP avec IWS.
- Déployer un web service REST avec IWS.

Dans cet atelier nous allons publier un web service sur notre IBMi qui sera en charge de restituer la liste des 10 premiers DVD (code et titre).



Introduction

Ce web service sera implémenté par le programme sqlrpg **LSTDVD**.

Le programme **LSTDVD** permet de lister les dvds.

Il retourne la liste des DVDs (code et titre) dans une datastructure en tableau de 10 postes.

s

Environnement

- P8 power8
- [Http Server Administration](#)
 - avec votre login Ibm i (RPG4***)
- serveur WSERVICE2.
- le programme déployé est RPG4***/LSTDVD.
- la table utilisée est la table DVD de RPG4***.
- le WS SOAP sera LSTDVDSOAP** (service name) pour RPG4**.
- le WS REST sera LSTDVDREST** (resource name) pour RPG4**.
- l'utilisateur de votre service sera votre login ibmi ==> RPG4**

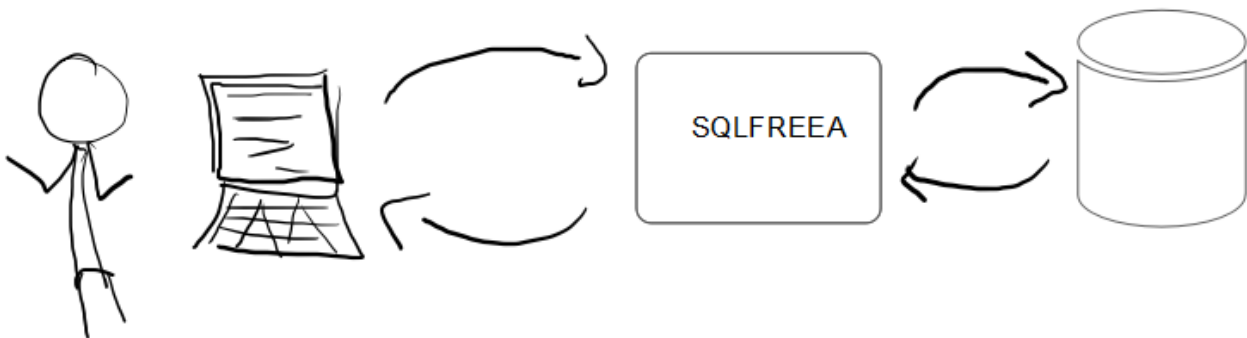
Créer le programme sqlrpg LSTDVD.

Objectifs.

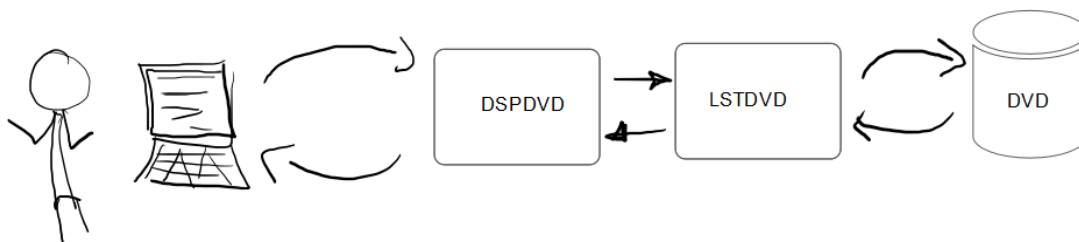
- créer le programme.
- compiler et tester le programme.
- utiliser le programme

créer le programme.

Nous allons transformer notre transaction.



en



donc nous allons créer deux programmes :

- **dspdvd** un programme en rpg qui affichera les dvs récupérés en appelant le programme **lstdvd** dans un sous-fichier. ce programme ne sert que pour faciliter les tests du second **lstdvd**
- **lstdvd** une programme en sqlrpg qui interrogera la table dvd pour récupérer les 10 premiers dvd (titre, année).

1. Copier le source sql21freeA.sqlrpgle en :

- dspdvd.rpgle pour afficher les dvds.
- lstdvd.sqlrpgle pour lister les dvds.

2. **lstdvd.sqlrpgle** pour lister les dvds.

- supprimer les traitements relatifs au sous-fichier

```
dcl-f dsp21a workstn sfile(fmtten:rrn);
dcl-s rrn zoned(4);
```

```
exsr affichagePage1;
```

- créer un tableau de data structure pour stocker les 10 premiers DVD.

```
dcl-ds DVD_Item template qualified;  
    titre char(40);  
    annee zoned(4:0);  
end-ds;  
dcl-ds DVD_Liste likeds(DVD_Item) dim(10);
```

- alimenter cette data structure

```
exec sql  
  declare listeFilms cursor for  
  select titre,annee from dvd order by titre  
  optimize for 10 rows  
  for fetch only;  
exec sql  
  open listeFilms;  
  if sqlcode < *zeros or sqlcode = 100;  
    return;  
  endif;  
  clear DVD_Liste;  
exec sql  
  fetch next  
  from listeFilms  
  for 10 rows  
  into :DVD_Liste;
```

- créer les paramètres du programme.

```
dcl-pi *N;  
  DVD_Liste likeds(DVD_Item) dim(10);  
end-pi;
```

Niveau de demande:

Détail des commandes et messages précédents :

```
? C
(C G D F) Erreur de paramètre ou de pointeur.
? C
Application error. MCH3601 unmonitored by LSTDVD at statement
0000000122, instruction X'0000'.
4 > CALL PGM(LSTDVD) PARM((''))
Batman
4 > dspjoblog
4 > CALL PGM(LSTDVD) PARM((''))
Batman
Jurassik Park
5 > *SYSTEM/DSPJOB
Fin

Tapez une commande, puis appuyez sur ENTREE.
==>
```

- demander la generation d'un pcml `python **free ctl-opt pgminfo(*pcml:*module:*dclcase);`

1. **dsdpvd.sqlrpgle** pour afficher les dvds.

- supprimer les accès et lecture à la base.

```
exec sql set option COMMIT = *NONE , DATFMT=*ISO;
exec sql
declare listeFilms cursor for
select titre,annee from dvd order by titre
for fetch only;
exec sql
open listeFilms;
fetch from listeFilms into :titre,:annee;
if sqlcode < *zeros or sqlcode = 100;
leave;
endif;
```

- définir les variables pour liste des dvds.

```
dcl-ds DVD_Item template qualified;
titre char(40);
annee zoned(4:0);
end-ds;
```

- définir le prototype d'appel à **lstdvd**.

```
dcl-pr getDVDs extpgm('LSTDVD');
pDVDs likeds(DVD_Item) dim(10);
end-pr;
```

- appeler **lstdvd**.

```
clear DVD_Liste; getDVDs(DVD_Liste); For-Each DVD_Item in DVD_Liste; if DVD_Item.titre = *blanks; iter; endif;  
rrn = rrn + 1; titre = DVD_Item.titre; annee = DVD_Item.annee; write fmttenr;
```

...

Déployer un web service SOAP avec IWS.

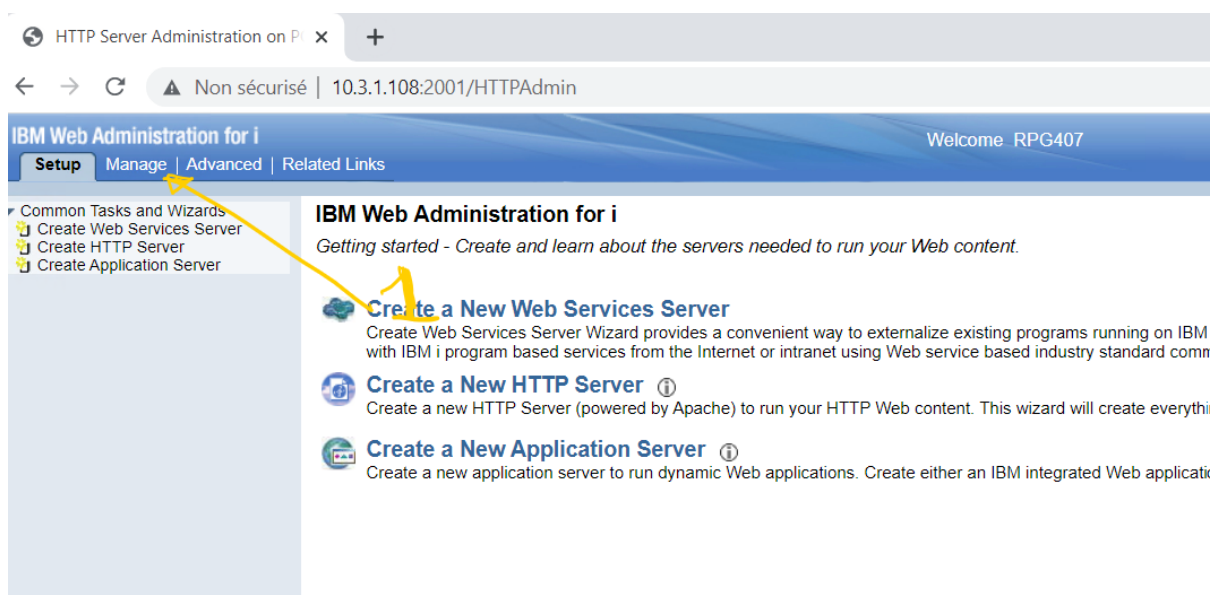
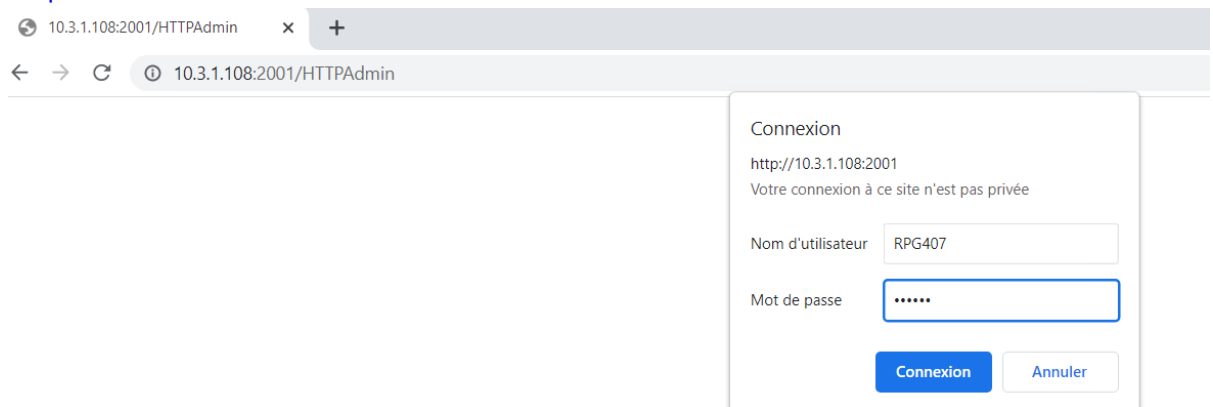
Objectifs.

- configurer le web service avec l'assistant.
- lancer le web service
- tester le web service

configurer le web service avec l'assistant.

1. Connectez vous à l'interface d'administration Http avec votre profil Ibmi (RPG4XX)

◦ [Http Server Administration](#)



HTTP Server Administration on P x +

← → ↻ ⚠ Non sécurisé | 10.3.1.108:2001/HTTPAdmin

IBM Web Administration for i

Setup **Manage** Advanced | Related Links

All Servers HTTP Servers | Application Servers | Installations

Common Tasks and Wizards

- Create Web Services Server
- Create HTTP Server
- Create Application Server

Manage All Servers ?

All HTTP Servers All Application Servers

Data current as of 3 déc. 2022 12:12:56.

	Server ▲	Version	Status	Address:Port
<input checked="" type="radio"/>	ADMIN	Apache/2.4.34 (IBM i)	● Running	*:2001
<input type="radio"/>	APACHEDFT	Apache/2.4.34 (IBM i)	● Stopped	*:81
<input type="radio"/>	CAS	Apache/2.4.34 (IBM i)	● Stopped	*:1053
<input type="radio"/>	DEMO	Apache/2.4.34 (IBM i)	● Stopped	*:10025
<input type="radio"/>	DEMOIWS	Apache/2.4.34 (IBM i)	● Stopped	*:20225
<input type="radio"/>	IBMARE	Apache/2.4.34 (IBM i)	● Stopped	*:12401
<input type="radio"/>	INTAPPSVR8	Apache/2.4.34 (IBM i)	● Stopped	10.3.1.1:100
<input type="radio"/>	IWADFT	Apache/2.4.34 (IBM i)	● Stopped	*:2020

HTTP Server Administration on P x +

← → ↻ ⚠ Non sécurisé | 10.3.1.108:2001/HTTPAdmin

IBM Web Administration for i

Setup **Manage** Advanced | Related Links

All Servers | HTTP Servers **Application Servers** | Installations

● Stopped ▶ ■ ↻ Server: WSERVICE2 - V2.6 (web services) ▼

Common Tasks and Wizards

Web Services

- Deploy New Service
- Manage Deployed Services

Server Properties

- Properties
- View HTTP Servers

Security

Logging

- View Logs
- View Create Summary

Tools

- Web Log Monitor
- Create Certificate
- Manage Certificates
- Create Keystore

All servers

Admin1 - V8.5 (int app svr)

Admin2 - V8.5 (int app svr)

Admin3 - V8.5 (int app svr)

Admin4 - V8.5 (int app svr)

Admin5 - V8.5 (int app svr)

Demo - V2.6 (web services)

DEMOIWS - V2.6 (web services)

IBMARE - V8.5 (int app svr)

INTAPPSVR8 - V8.5 (int app svr)

LAN - V8.5 (int app svr)

VOLUBIS - V8.5 (int app svr)

WQLIB85 - V8.5 (int app svr)

WSERVICE1 - V2.6 (web services)

WSERVICE2 - V2.6 (web services)

server

Create Web Services Server wizard.

server provides a secure and easy way
the server in addition to installing and
<http://www.ibm.com/support/docview.w>

2. Affichez la liste des services du serveur WSERVICE2

The screenshot shows the IBM Web Administration console interface. The browser address bar indicates the URL is 10.3.1.108:2001/HTTPAdmin. The console has a navigation bar with tabs for Setup, Manage (selected), Advanced, and Related Links. Below this, there are tabs for All Servers, HTTP Servers, Application Servers (selected), and Installations. The main content area is titled 'Manage Web Services Server' for the server 'WSERVICE2'. It shows the server status as 'Stopped' and provides a list of common tasks and wizards. A yellow arrow points to the 'Manage Deployed Services' button in the 'Manage Deployed Services' section.

HTTP Server Administration on PC x +

← → ↻ ⚠ Non sécurisé | 10.3.1.108:2001/HTTPAdmin

IBM Web Administration for i

Setup **Manage** Advanced | Related Links

All Servers | HTTP Servers **Application Servers** Installations

Stopped [Start] [Stop] [Refresh] Server: WSERVICE2 - V2.6 (web services) ▼

Common Tasks and Wizards

- Web Services
 - Deploy New Service
 - Manage Deployed Services
- Server Properties
 - Properties
 - View HTTP Servers
- Security
- Logging
 - View Logs
 - View Create Summary
- Tools
 - Web Log Monitor
 - Create Certificate
 - Manage Certificates
 - Create Keystore

WSERVICE2

Manage Web Services Server

Server: **WSERVICE2**

Web services server created by the Create Web Services Wizard

The IBM integrated Web services server provides a simple and easy to use interface for managing the server in a web browser. For more information, please visit: http://www.ibm.com/ibm/infocenter/docstore/topic/com.ibm.websphere.docinfo.doc/5195-491_WebServices.htm

Manage Deployed Services

3. Lancez l'assistant de déploiement en cliquant sur la touche

HTTP Server Administration on P x +

← → ↻ Non sécurisé | 10.3.1.108:2001/HTTPAdmin

IBM Web Administration for i Welcome RPG4

Setup **Manage** Advanced | Related Links

All Servers | HTTP Servers **Application Servers** Installations

Starting [Stop] [Refresh] Server: WSERVICE2 - V2.6 (web services) ▼

Common Tasks and Wizards

- Web Services
 - Deploy New Service
 - Manage Deployed Services
- Server Properties
 - Properties
 - View HTTP Servers
- Security
- Logging
 - View Logs
 - View Create Summary
- Tools
 - Web Log Monitor
 - Create Certificate
 - Manage Certificates
 - Create Keystore

WSERVICE2 > Manage Deployed Services

Manage Deployed Services

Data current as of 3 déc. 2022 12:17:25.

Deployed services: ?

	Service name	Status	Type	Startup type	Service definition
<input checked="" type="radio"/>	ConvertTemp	Stopped	SOAP	Automatic	View WSDL
<input type="radio"/>	PRODUCTEUR	Stopped	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTREST	Stopped	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTSOAP	Stopped	SOAP	Automatic	View WSDL

Deploy Refresh

4. Choisissez le type de Web service et le programme implémenté

Server: WSERVICE2 - V2.6 (web services) ▼

WSERVICE2 > Manage Deployed Services > Deploy New Service

Deploy New Service

Specify Web service type - Step 1 of 10

Welcome to the Deploy New Service wizard. This wizard helps you create Web services using IBM i objects and data. A SOA that are based on the SOAP protocol. A REST-based Web service exposes resources, where client requests are handled by

Specify Web service type: SOAP ▼ 1

Specify path to ILE program or service program: ?

Path of program object: /QSYS.LIB/YV.LIB/LSTDVD.PGM 2 Browse e.g. /QSYS.LIB/MYLIB.L

Note: Specify a *PGM or *SRVPGM object.

remplacer

/QSYS.LIB/YV.LIB/LSTDVD.PGM

par

/QSYS.LIB/RPG4XX.LIB/LSTDVD.PGM

▶▶ next

5. Indiquez le nom du service LSTDVDSOAP** pour RPG4**, pour la description indiquez ce que vous souhaitez.

Servers Application Servers Installations

Server: WSERVICE2 - V2.6 (web services) ▼

Wizards

WSERVICE2 > Manage Deployed Services > Deploy New Service

Deploy New Service

Specify Name for Service - Step 3 of 11

Specify a unique name for this service. ?

Service name: LSTDVDSOAPYV

Service description: LSTDVD

▶▶ next ▶▶ next

6. Sélectionnez les procédures à déployer.

- sélectionnez Output pour DVD_Liste.

The table below lists all the exported procedures found in the program object that can be externalized through this Web s service.

Detect length fields ☒

Export procedures: ?

Select	Procedure name/Parameter name	Usage	Data type
<input checked="" type="checkbox"/>	▼ LSTDVD		
	DVD_Liste	output ▼	struct

Select All Deselect All Expand All Collapse All

1

▶▶ next ▶▶ next jusqu'à Specify User ID for this Service - Step 6 of 10

1. Indiquez votre profil IBmi RPG4** pour l'utilisateur du service

Deploy New Service
Specify User ID for this Service - Step 7 of 11

The service requires an IBM i user ID to run the Web service business logic. The use

Specify User ID for this Service: ?


☐ Use **server's** user ID

☒ Specify an **existing** user ID

User ID:

☒ Update the server's user ID to have *USE authority to this user ID.

☐ Use **authenticated** user ID



next

2. Ajoutez la bib (RPG4**) contenant la table DVD à la liste de bib en ligne

Deploy New Service
Specify Library List - Step 8 of 11

The functionality of the IBM i program you want to externalize as a Web service

Specify library list position for this Web service:

☐ Insert libraries in front of user library portion of the library list

☒ Insert libraries at the end of user library portion of the library list

Library list entries: ?

	Library name
<input type="radio"/>	YV

next next jusqu'à *Summary - Step 10 of 10*

3. Vérifiez votre config

[WSERVICE2](#) > [Manage Deployed Services](#) > [Deploy New Service](#)

Deploy New Service

Summary - Step 10 of 10

When you click **Finish** the web service is deployed.

Service Security Operations Request Information WSDL

Name: LSTDVDSOAPYV
Description: LSTDVD
Service install path : /www/wservice2/webservices/services/LSTDVDSOAPYV
Program: /QSYS.LIB/YV.LIB/LSTDVD.PGM
Library list for service: YV











 Finish

4. Le service se déploie et démarre automatiquement.

Manage Deployed Services

Data current as of 3 déc. 2022 12:32:33.

Deployed services: ?

	Service name	Status	Type	Startup type	Service definition
<input type="radio"/>	ConvertTemp	 Running	SOAP	Automatic	 View WSDL
<input checked="" type="radio"/>	LSTDVDGENR07	 Installing	SOAP	Automatic	 View WSDL
<input type="radio"/>	PRODUCTEUR	 Running	REST	Automatic	 View Swagger
<input type="radio"/>	PRODUCTREST	 Running	REST	Automatic	 View Swagger
<input type="radio"/>	PRODUCTSOAP	 Running	SOAP	Automatic	 View WSDL

Deploy Properties Uninstall Redeploy Refresh



Refresh

Server: WSERVICE2 - V2.6 (web services) ▼

WSERVICE2 > Manage Deployed Services

Manage Deployed Services

Data current as of 28 juin 2023 15:22:03.

Find service: Find Clear

Service name ^	Status	Type	Startup type	Service definition
ConvertTemp	Running	SOAP	Automatic	View WSDL
LSTDVDSOAPYV	Running	SOAP	Automatic	View WSDL
PRODUCTEUR	Running	REST	Automatic	View Swagger
PRODUCTREST	Running	REST	Automatic	View Swagger
PRODUCTSOAP	Running	SOAP	Automatic	View WSDL

Total 5 items

Deploy Refresh

Handwritten annotations: Arrow 1 points to the Refresh button. Arrow 2 points to the 'Running' status of the LSTDVDSOAPYV service.

5. Vérifions dans SOAPUI (cf TP_HTTP)

Data current as of 3 déc. 2022 12:33:46.

Deployed services: ?

	Service name	Status	Type	Startup type	Service definition
<input type="radio"/>	ConvertTemp	Running	SOAP	Automatic	View WSDL
<input checked="" type="radio"/>	LSTDVDGENR07	Running	SOAP	Automatic	View WSDL
<input type="radio"/>	PRODUCTEUR	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTREST	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTSOAP	Running	SOAP	Automatic	View WSDL

Deploy Stop Properties Uninstall Redeploy Refr

Handwritten annotation: 'Clic Droit' (Right Click) with an arrow pointing to the 'View WSDL' link of the LSTDVDGENR07 service.

Handwritten annotation: Arrow 2 points to the context menu option 'Copier l'adresse du lien' (Copy the link address).

- Ouvrir le lien dans un nouvel onglet
- Ouvrir le lien dans une nouvelle fenêtre
- Ouvrir le lien dans une fenêtre en navigation privée
- Enregistrer le lien sous...
- Copier l'adresse du lien
- Inspecter

SoapUI 5.7.0

File Project Suite Case Step Tools Desktop Help

Empty SOAP REST Import Save All Forum Trial Preferences Proxy

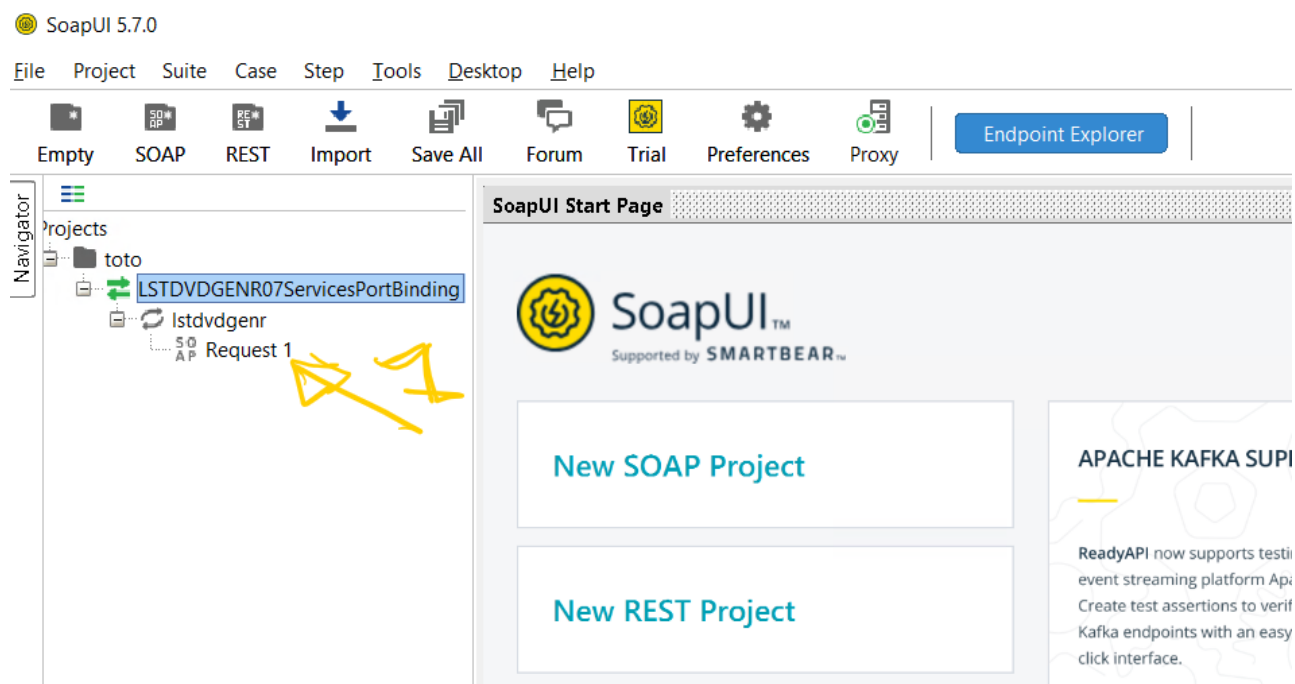
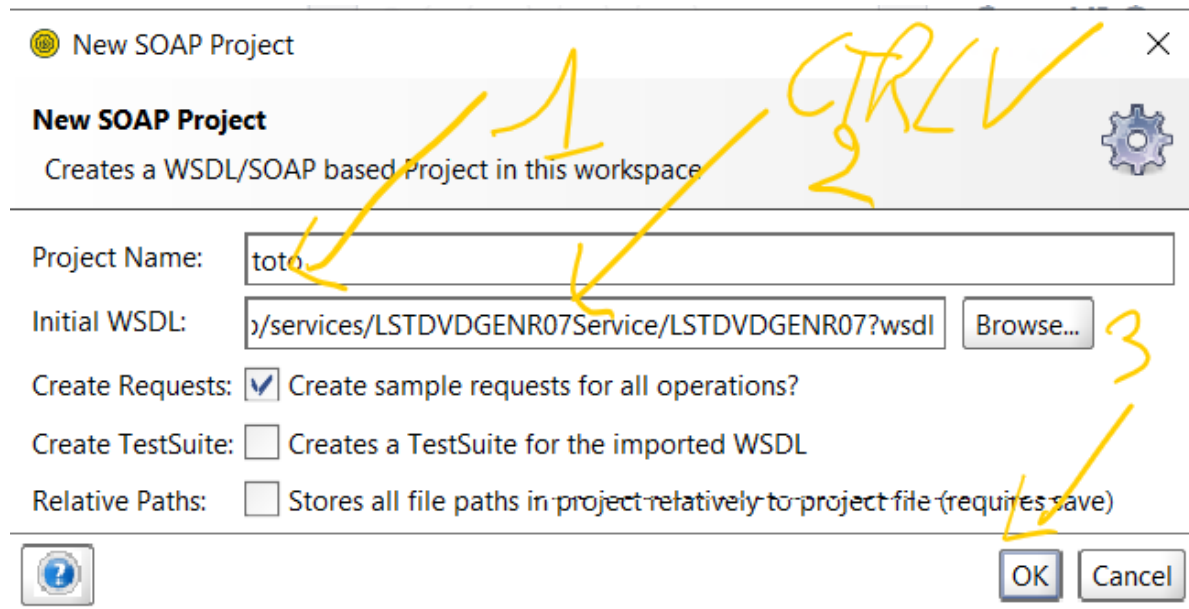
Handwritten annotation: Arrow 1 points to the SOAP button in the toolbar, with a tooltip that says 'Creates a new SOAP project'.

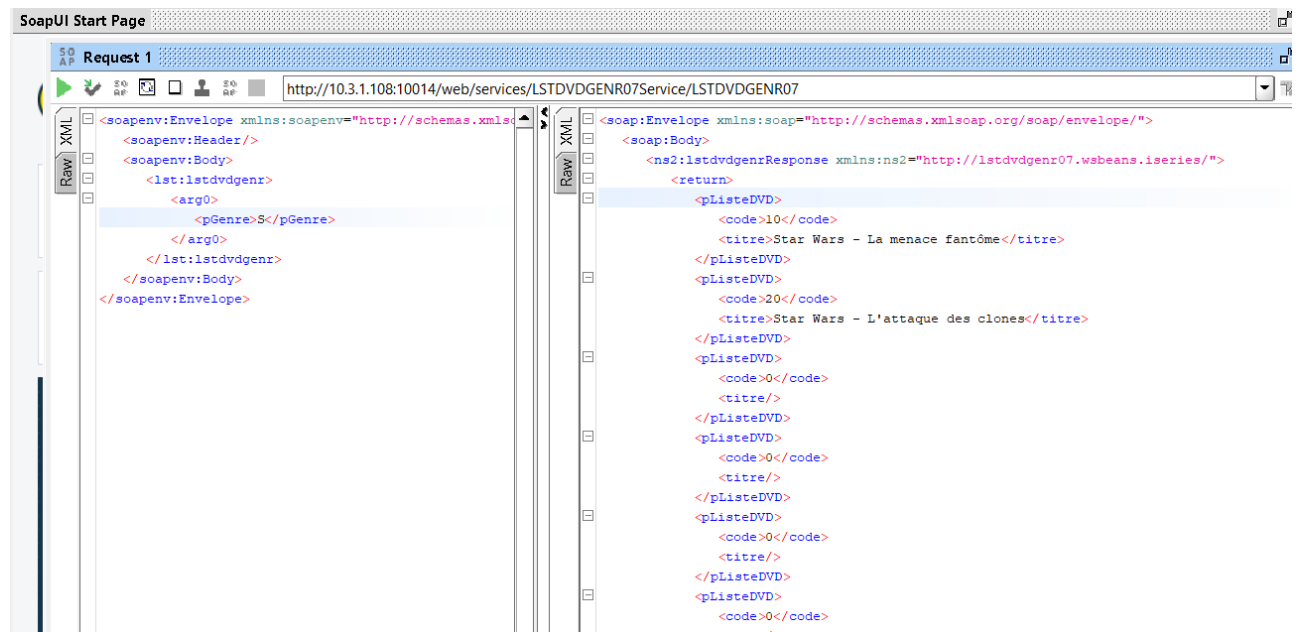
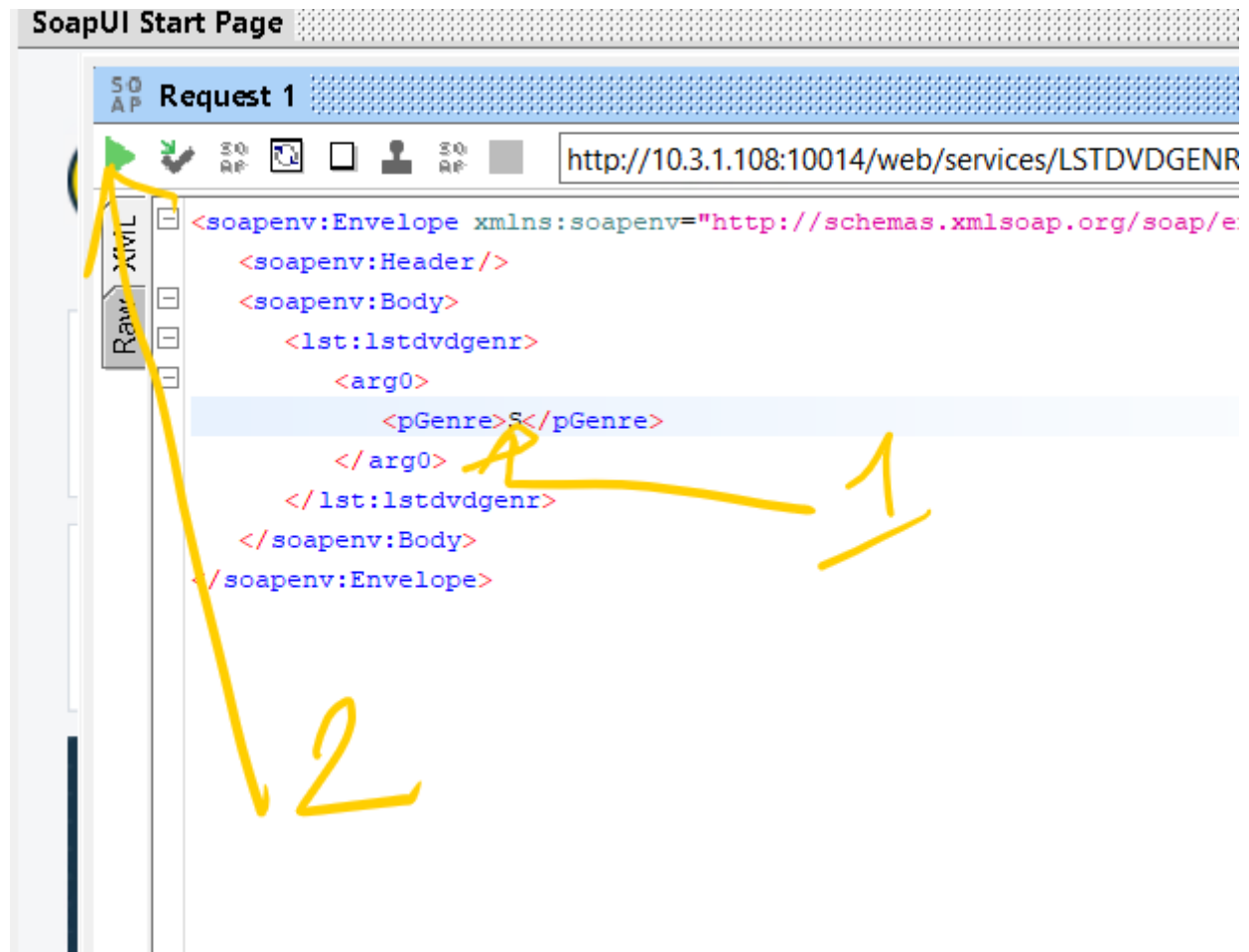
Navigator Projects

SoapUI Start Page

SoapUI™
Supported by SMARTBEAR™

New SOAP Project





testez !

Déployer un web service REST avec IWS.

Objectifs.

- configurer le web service avec l'assistant.
- lancer le web service
- tester le web service

configurer le web service avec l'assistant.

1. Connectez vous à l'interface d'administration Http avec votre profil Ibmi (RPG4**)

- [Http Server Administration](#)

2. Affichez la liste des services du serveur WSERVICE2

IBM Web Administration for i Welcome RPG407

Setup **Manage** Advanced | Related Links

All Servers | HTTP Servers **Application Servers** Installations

Running ▶ ■ ↻ Server: WSERVICE2 - V2.6 (web services) ▼

Common Tasks and Wizards

- Web Services
 - Deploy New Service
 - Manage Deployed Services
- Server Properties
 - Properties
 - View HTTP Servers
- Security
- Logging
 - View Logs
 - View Create Summary
- Tools
 - Web Log Monitor

Create Certificate
Manage Certificates
Create Keystore

WSERVICE2 > Manage Deployed Services

Manage Deployed Services

Data current as of 3 déc. 2022 17:59:13.

Deployed services: ?

	Service name	Status	Type	Startup type	Service definition
<input type="radio"/>	ConvertTemp	Running	SOAP	Automatic	View WSDL
<input checked="" type="radio"/>	LSTDVDGENR07	Running	SOAP	Automatic	View WSDL
<input type="radio"/>	PRODUCTEUR	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTREST	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTSOAP	Running	SOAP	Automatic	View WSDL

Deploy Stop Properties Uninstall Redeploy Refresh

3. Lancez l'assistant de déploiement en cliquant sur la touche

Data current as of 3 déc. 2022 17:59:13.

Deployed services: ?

	Service name	Status	Type	Startup type	Service definition
<input type="radio"/>	ConvertTemp	Running	SOAP	Automatic	View WSDL
<input checked="" type="radio"/>	LSTDVDGENR07	Running	SOAP	Automatic	View WSDL
<input type="radio"/>	PRODUCTEUR	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTREST	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTSOAP	Running	SOAP	Automatic	View WSDL

Deploy Stop Properties Uninstall Redeploy Refresh

4. Choisissez le type de Web service et le programme implémenté

Specify Web service type - Step 1 of 10

Welcome to the Deploy New Service wizard. This wizard helps you create Web services using IBM i objects and data that are based on the SOAP protocol. A REST-based Web service exposes resources, where client requests are handled by a REST API.

Specify Web service type: ?

Specify Web service implementation:

☒ ILE program object as a Web service

Specify path to ILE program or service program: ?

Path of program object: Browse e.g. /QSYS.LIB/YV.LIB.LSTDVD.PGM

Note: Specify a *PGM or *SRVPGM object.

☐ SQL as a Web service

5. Indiquez le nom du service LSTDVDREST** pour RPG4**, pour la description indiquez ce que vous

Specify Name for Service - Step 2 of 10

The Web service to be externalized is a resource. The URI path template identifies the resource.

Resource name:

Service description:

URI path template: e.g. /temperature

souhaitez.

- vous pouvez éventuellement donner un nom de ressource (si besoin est) mais dans le cas présent on peut laisser cette zone à blanc

6. Sélectionnez les procédures à déployer.

- sélectionnez Output pour DVD_Liste.

The table below lists all the exported procedures found in the program object that can be externalized as a Web service.

Detect length fields ☒

Use parameter name as element name for data structures ☐

Export procedures: ?

Select	Procedure name/Parameter name	Usage	Data type
<input checked="" type="checkbox"/>	▼ LSTDVD		
	DVD_Liste	<input type="text" value="output"/>	struct

Select All

Deselect All

Expand All



Collapse All

▶▶next ▶▶next jusqu'à *Specify Resource Method Information - Step 6 of 10*

1. configurez le verbe HTTP GET

Specify Resource Method Information - Step 6 of 10

Procedures are mapped to resource methods. Each resource method needs to be defined to handle client requests by mapping an HTTP request method to a resource method.

Procedure name:	LSTDVD
URI path template for resource:	/
HTTP request method:	GET 
URI path template for method:	*NONE or... ▼
HTTP response code output parameter:	*NONE ▼
HTTP header array output parameter:	*NONE ▼
HTTP header information:	*NONE
Error response output parameter:	*NONE or... ▼
Allowed input media types:	*ALL or... ▼
Returned output media types:	*JSON or... ▼ 
Identifier for input wrapper element:	LSTDVDInput or... ▼
Identifier for output wrapper element:	LSTDVDResult or... ▼

☒ Wrap output parameters

▶▶next

1. Indiquez votre profil IBmi RPG4** pour l'utilisateur du service


Deploy New Service


Specify User ID for this Service - Step 7 of 10

The service requires an IBM i user ID to run the Web service business logic. The user

Specify User ID for this Service: ?

☐ Use **server's** user ID

☒ Specify an **existing** user ID 

User ID: 

☒ Update the server's user ID to have *USE authority to this user ID.

☐ Use **authenticated** user ID

▶▶next

2. Ajoutez la bib (RPG4**) contenant la table WDVD à la liste de bib en ligne

Specify Library List - Step 8 of 10

The functionality of the IBM i program you want to externalize as a Web service may depend upon is specified, a default library list is used.

Specify library list position for this Web service:

- ☐ Insert libraries in front of user library portion of the library list
☒ Insert libraries at the end of user library portion of the library list

Library list entries: ?

	Library name
<input type="radio"/>	RPG407

Add

Remove All

▶▶next ▶▶next jusqu'à Summary - Step 10 of 10

3. Vérifiez votre config

Deploy New Service

Summary - Step 10 of 10

When you click **Finish** the web service is deployed.

Service

Security

Methods

Request Information

Resource name: LSTDVDGENRREST07

Resource description: LSTDVDGENRREST07

Service install path : /www/wservice2/webservices/services/LSTDVDGENRREST07

URI path template: /

Program: /QSYS.LIB/RPG407.LIB/LSTDVDGENR.PGM

Library list for service: RPG407

▶▶Finish

4. Le service se déploie et démarre automatiquement.

Manage Deployed Services

Data current as of 3 déc. 2022 18:15:17.

Deployed services: ?

	Service name	Status	Type	Startup type	Service definition
<input checked="" type="radio"/>	ConvertTemp	Running	SOAP	Automatic	View WSDL
<input type="radio"/>	LSTDVDGENR07	Running	SOAP	Automatic	View WSDL
<input checked="" type="radio"/>	LSTDVDGENRREST07	Installing	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTEUR	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTREST	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTSOAP	Running	SOAP	Automatic	View WSDL

Deploy

Properties

Uninstall

Redeploy

Refresh

Refresh

Manage Deployed Services

Data current as of 3 déc. 2022 18:16:50.

Deployed services: ?

	Service name	Status	Type	Startup type	Service definition
<input checked="" type="radio"/>	ConvertTemp	Running	SOAP	Automatic	View WSDL
<input type="radio"/>	LSTDVDGENR07	Running	SOAP	Automatic	View WSDL
<input checked="" type="radio"/>	LSTDVDGENRREST07	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTEUR	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTREST	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTSOAP	Running	SOAP	Automatic	View WSDL

Deploy

Stop

Properties

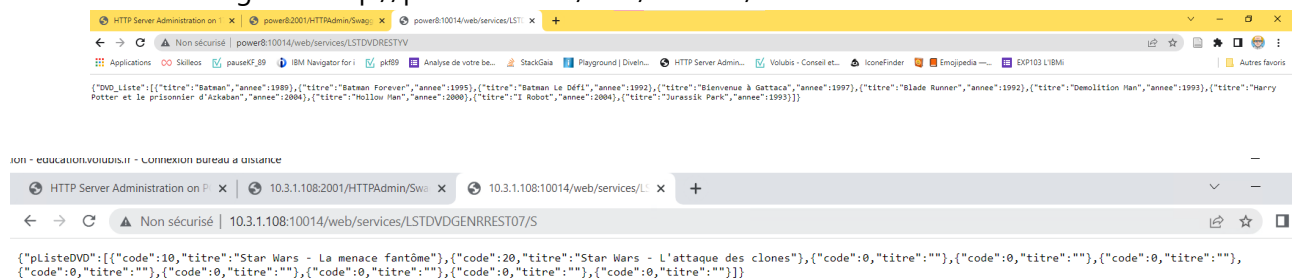
Uninstall

Redeploy

Refresh

5. Vérifications

- dans le navigateur http://power8:10014/web/services/LSTDVDREST**



- dans SOAPUI (cf TP_HTTP)

- sauvegarde du fichier open api
[WSERVICE2](#) > Manage Deployed Services

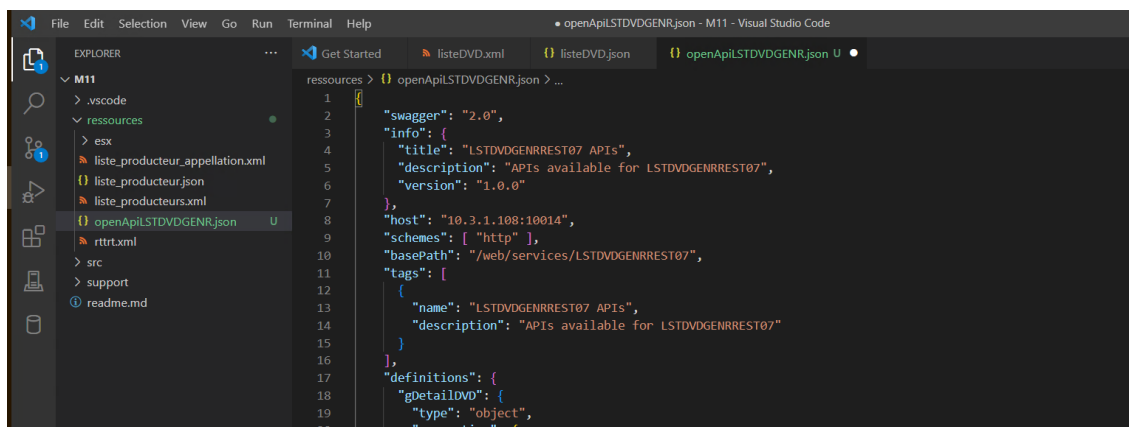
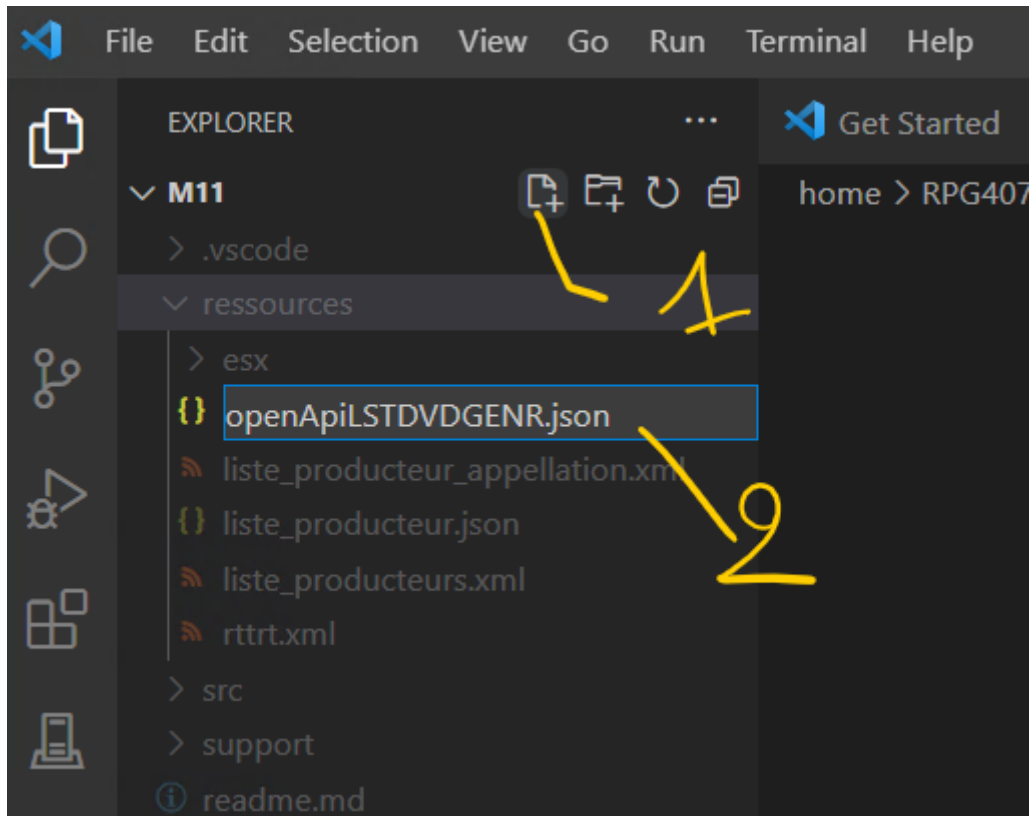
Manage Deployed Services

Data current as of 3 déc. 2022 18:16:50.

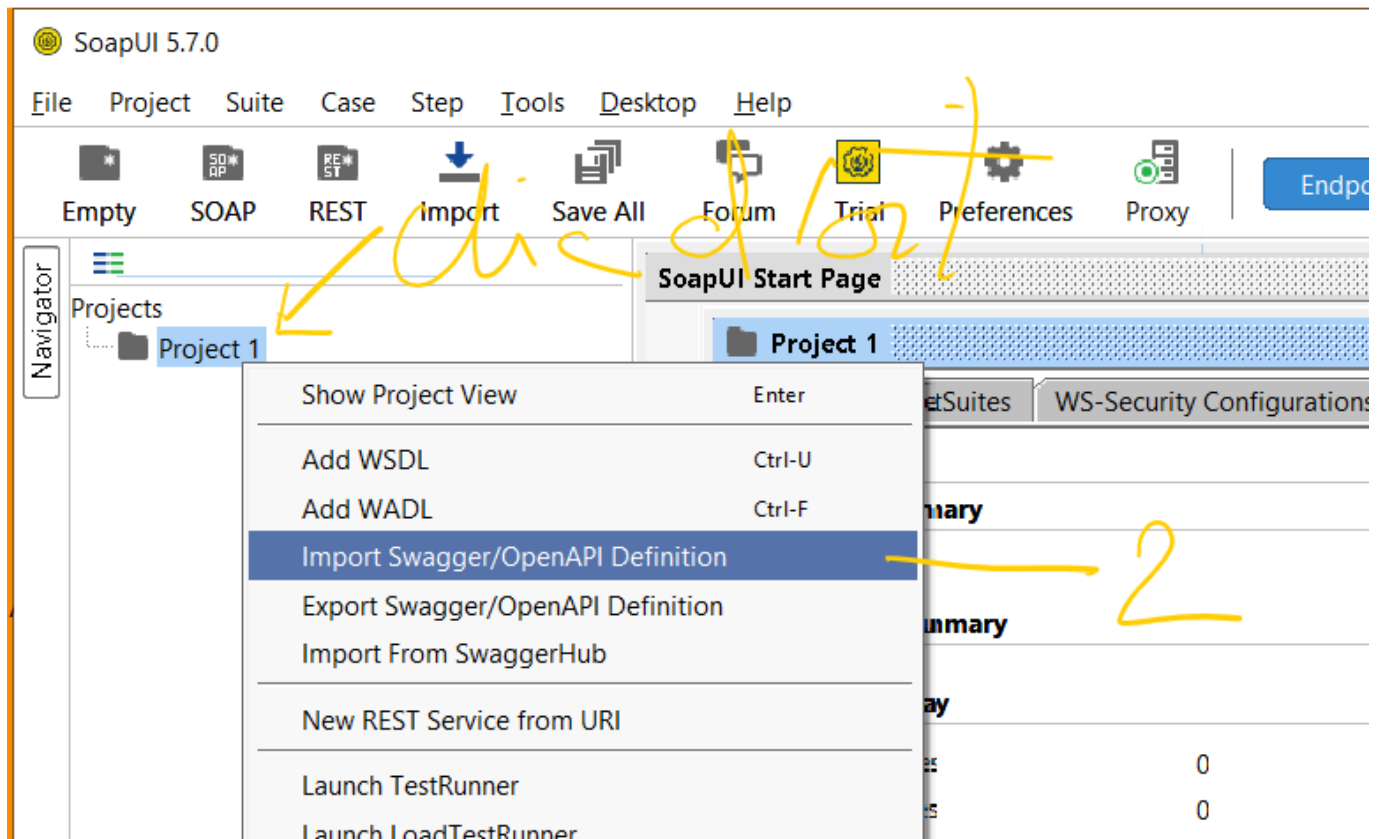
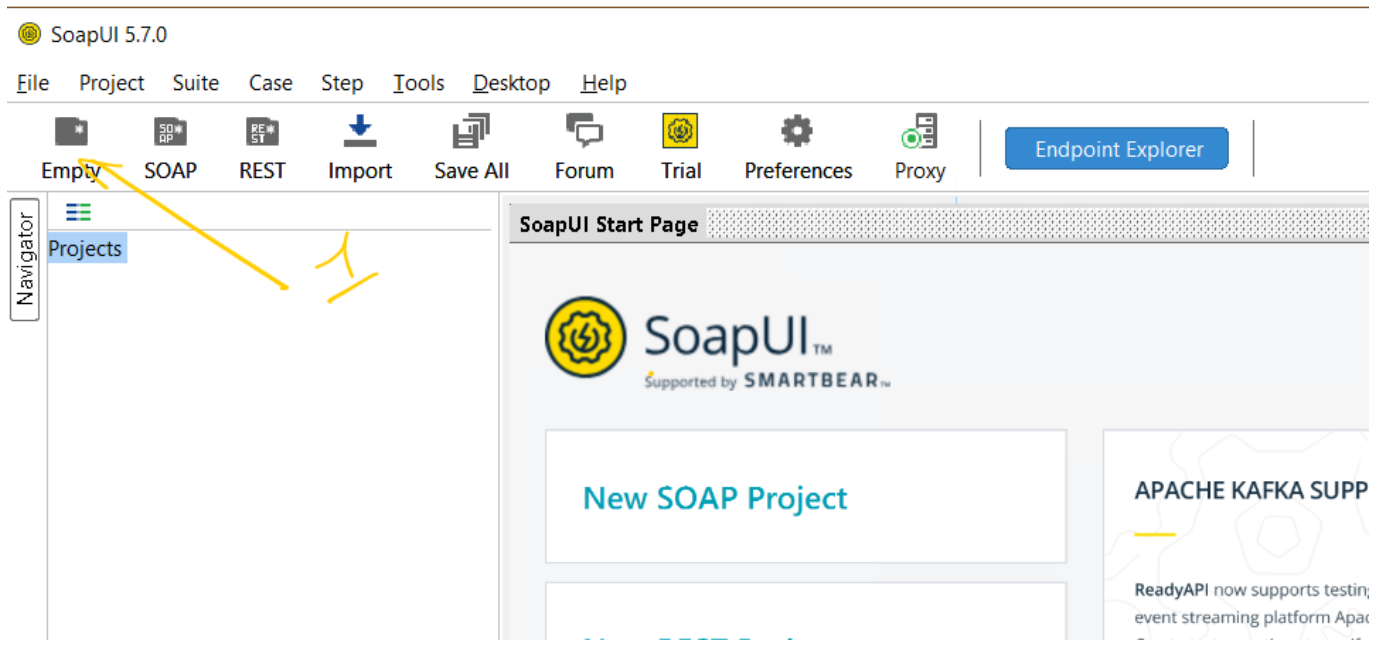
Deployed services: ?

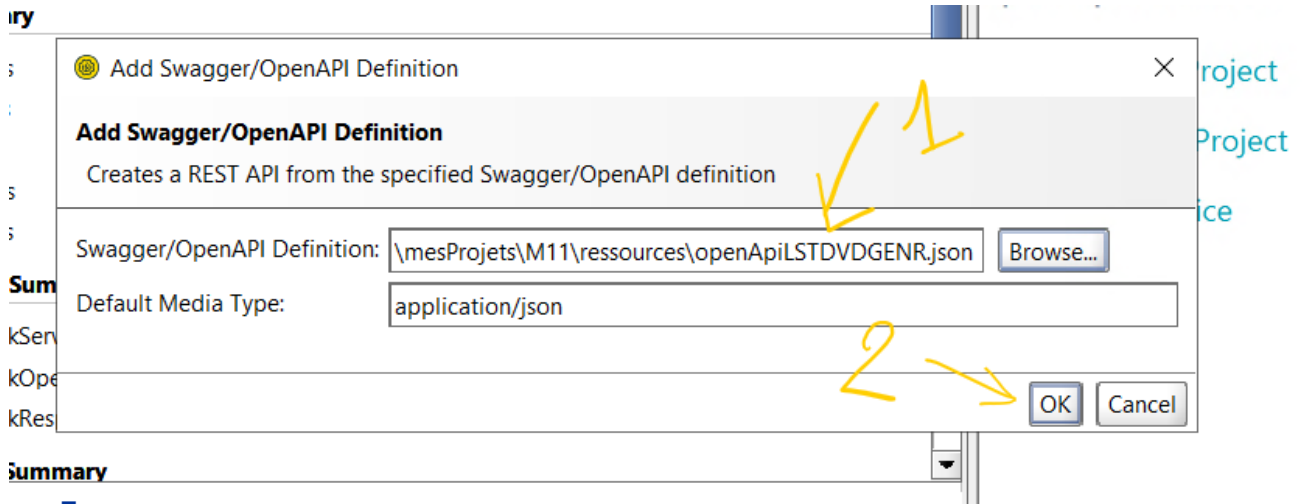
	Service name	Status	Type	Startup type	Service definition
<input type="radio"/>	ConvertTemp	Running	SOAP	Automatic	View WSDL
<input type="radio"/>	LSTDVDGENR07	Running	SOAP	Automatic	View WSDL
<input checked="" type="radio"/>	LSTDVDGENRREST07	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTEUR	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTREST	Running	REST	Automatic	View Swagger
<input type="radio"/>	PRODUCTSOAP	Running	SOAP	Automatic	View WSDL

dans vs



dans soapui





SoapUI 5.7.0

