

WSO2 API MANAGER

Arun Prakash N

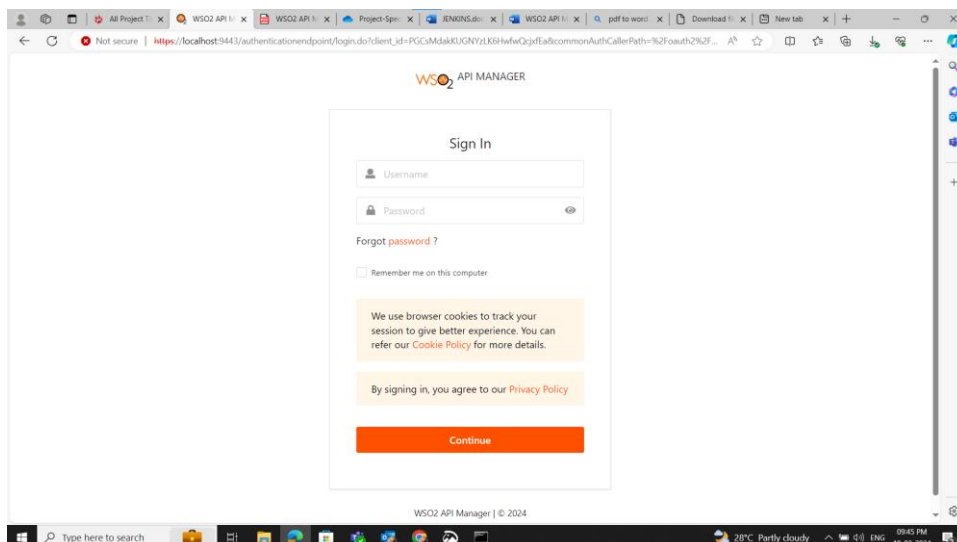
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Here are the steps to create an API in WSO2 API Manager.

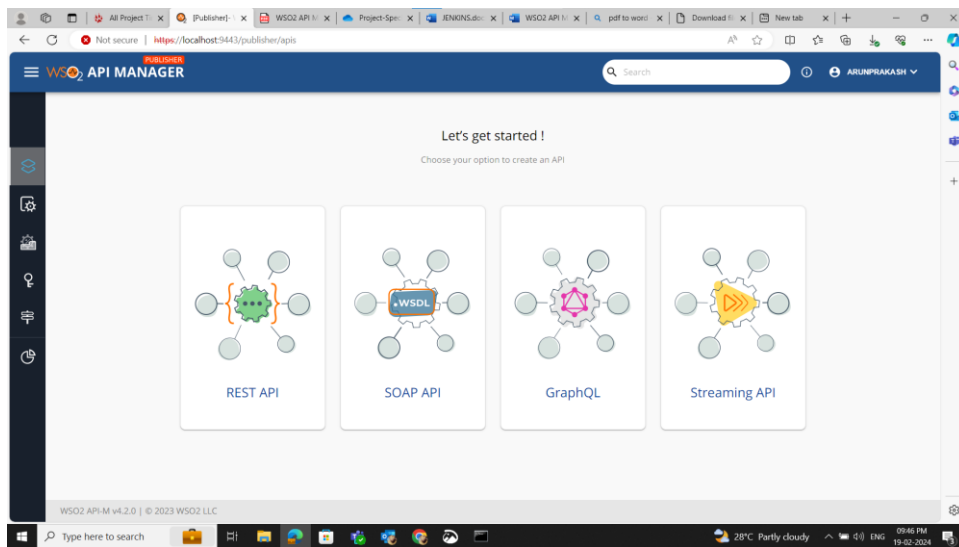
Step 1: Run the .bat file for installing WSO2 in windows.

```
C:\Windows\System32\cmd.exe - api-manager.bat -run
at org.wso2.andes.client.protocol.BlockingMethodHandler.blockForFrame(BlockingMethodHandler.java:122) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolHandler.writeCommandFrameAndWaitForReply(AMQProtocolHandler.java:689) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolHandler.send(AMQProtocolHandler.java:713) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolHandler.closeConnection(AMQProtocolHandler.java:742) ~[andes_3.3.24.2.jar:~]
... 14 more
[2024-02-19 21:27:07.836] ERROR - AMQConnection Throwable Received but no listener set.
org.wso2.andes.AMQDisconnectedException: Server closed connection and reconnection not permitted.
at org.wso2.andes.client.protocol.AMQProtocolHandler.close(AMQProtocolHandler.java:274) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolHandler.closeConnection(AMQProtocolHandler.java:755) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolSession.closeProtocolSession(AMQProtocolSession.java:379) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.handler.ConnectionCloseMethodHandler.methodReceived(ConnectionCloseMethodHandler.java:184) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.handler.ClientMethodDispatcherImpl.dispatchConnectionClose(ClientMethodDispatcherImpl.java:192) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.framing.smp.0.9.ConnectionCloseBodyImpl.execute(ConnectionCloseBodyImpl.java:140) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.state.AMQStateManager.methodReceived(AMQStateManager.java:111) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolHandler.methodBodyReceived(AMQProtocolHandler.java:554) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolSession.methodBodyReceived(AMQProtocolSession.java:487) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.framing.AMQMethodBodyImpl.handle(AMQMethodBodyImpl.java:52) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolHandler$2.run(AMQProtocolHandler.java:487) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.pool.job.run(Job.java:158) ~[andes_3.3.24.2.jar:~]
at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1136) ~[?:~]
at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635) ~[?:~]
at java.lang.Thread.run(Thread.java:833) [?:~]
[2024-02-19 21:27:07.838] ERROR - AMQConnection Throwable Received but no listener set.
org.wso2.andes.AMQException: AMQP timed out when attempting to close the connection
at org.wso2.andes.client.protocol.AMQProtocolHandler.closeConnection(AMQProtocolHandler.java:746) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolSession.closeProtocolSession(AMQProtocolSession.java:379) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.handler.ConnectionCloseMethodHandler.methodReceived(ConnectionCloseMethodHandler.java:184) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.handler.ClientMethodDispatcherImpl.dispatchConnectionClose(ClientMethodDispatcherImpl.java:192) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.framing.smp.0.9.ConnectionCloseBodyImpl.execute(ConnectionCloseBodyImpl.java:140) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.state.AMQStateManager.methodReceived(AMQStateManager.java:111) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolHandler.methodBodyReceived(AMQProtocolHandler.java:554) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolSession.methodBodyReceived(AMQProtocolSession.java:487) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.framing.AMQMethodBodyImpl.handle(AMQMethodBodyImpl.java:92) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolHandler$2.run(AMQProtocolHandler.java:487) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.pool.job.run(Job.java:158) ~[andes_3.3.24.2.jar:~]
at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1136) ~[?:~]
at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635) ~[?:~]
at java.lang.Thread.run(Thread.java:833) [?:~]
Caused by: org.wso2.andes.AMQTimeoutException: Server did not respond in a timely fashion
at org.wso2.andes.client.util.BlockingHelper.block(BlockingHelper.java:176) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.BlockingMethodHandler.blockForFrame(BlockingMethodHandler.java:122) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolHandler.writeCommandFrameAndWaitForReply(AMQProtocolHandler.java:689) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolHandler.send(AMQProtocolHandler.java:713) ~[andes_3.3.24.2.jar:~]
at org.wso2.andes.client.protocol.AMQProtocolHandler.closeConnection(AMQProtocolHandler.java:742) ~[andes_3.3.24.2.jar:~]
... 14 more
[2024-02-19 21:27:07.836] ERROR - JMSListener JMS Provider is not yet started. Please start the JMS provider now.
[2024-02-19 21:27:07.836] ERROR - JMSListener Connection attempt : 4 for JMS Provider failed. Next retry in 100 seconds
```

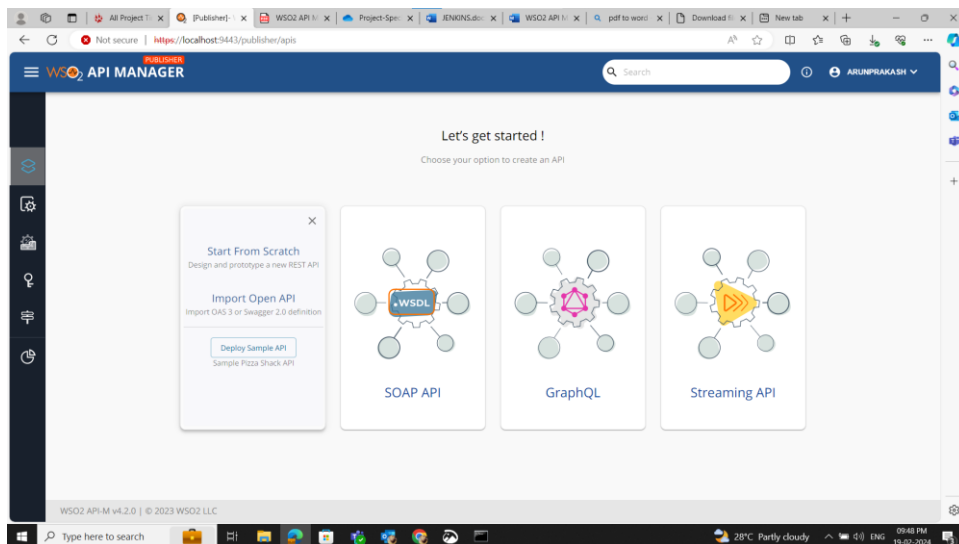
Step 2: Navigate to the Publisher server portal in localhost and login using credentials.



Step 3: This is the Publisher portal of WSO2.



Step 4: Create a Rest API give “Start from Scratch” there.



Step 5: Fill the details for creating API (I'm using a demo Endpoints already available in json place holder)

The screenshot shows the 'Create an API' form in the WSO2 API Manager. The form has the following fields:

- Name:** DemoAPI
- Context:** /Demo
- Version:** 1.00
- Endpoint:** https://jsonplaceholder.typicode.com/

Below the fields are three buttons: 'Create', 'Create & Publish', and 'Cancel'. A note states: 'API will be exposed in /Demo/1.00 context at the gateway'. A red asterisk indicates mandatory fields.

Step 6: Now the API is in developed Stage after creating.

The screenshot shows the 'Overview' page for the API 'DemoAPI:1.00'. The page includes a lifecycle diagram and a configuration table.

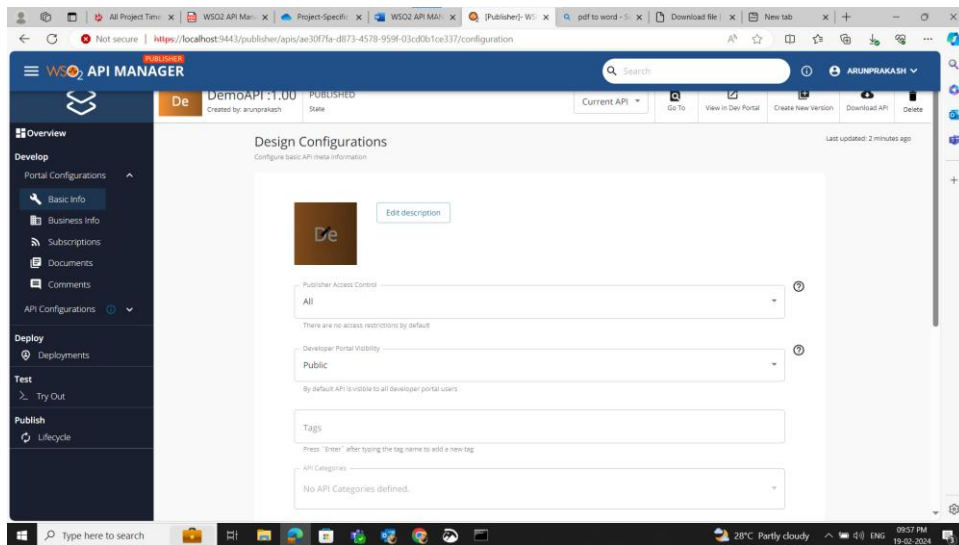
Lifecycle Diagram:

```
graph LR; Develop((Develop)) --> Deploy((Deploy)); Deploy --> Test((Test)); Test --> Published((Published (Current API)));
```

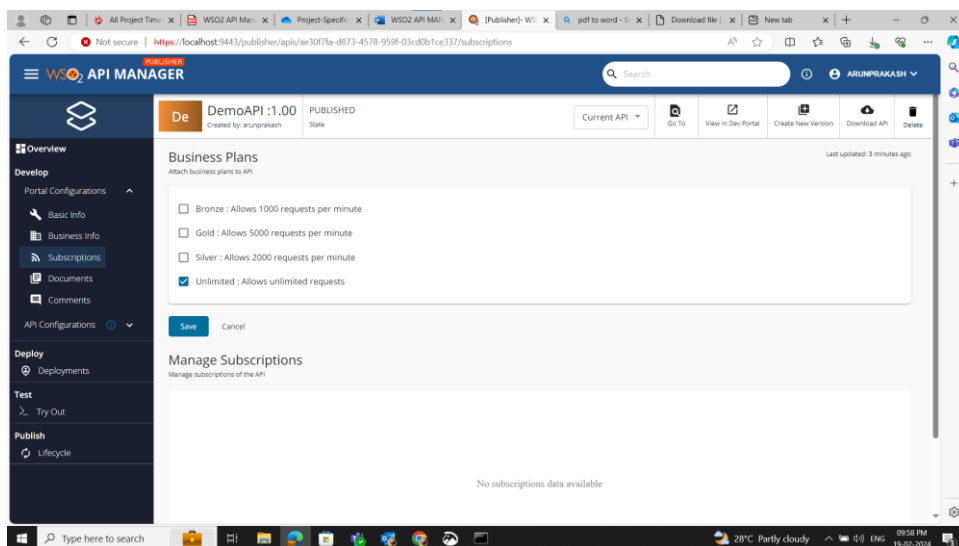
Configuration Table:

Context:		Configuration	
Description	-	Transports	HTTP, HTTPS
Provider	arunprakash	API Security	OAuth2
Context	/Demo	Access Control	None
Version	1.00	Workflow Status	-
Type	HTTP	Visibility on Developer Portal	Public
Created Time	A few seconds ago	Business Plans	Unlimited
Last Updated Time	A few seconds ago	Tags	-
Business Owner	-		
Technical Owner	-		

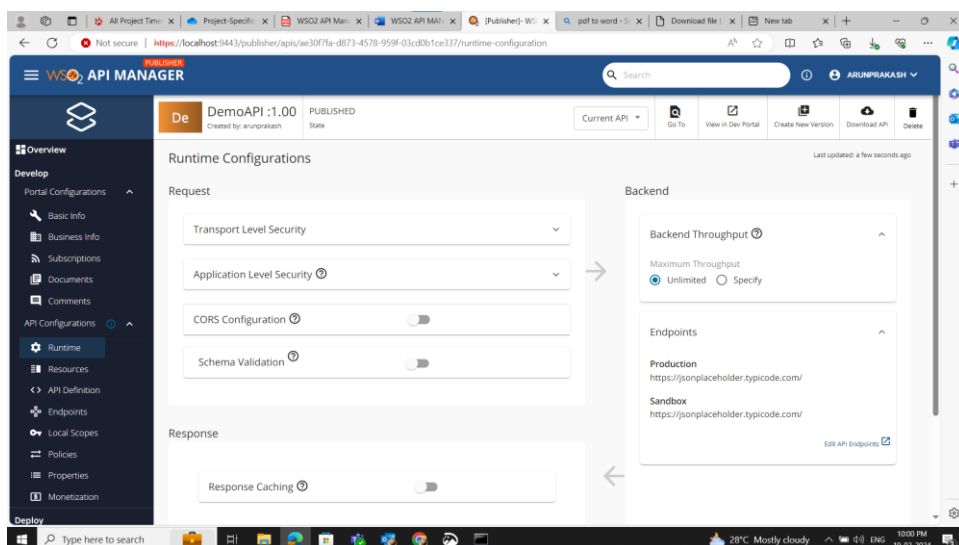
Step 7: Check the API Design and edit if needed in Portal Configurations.



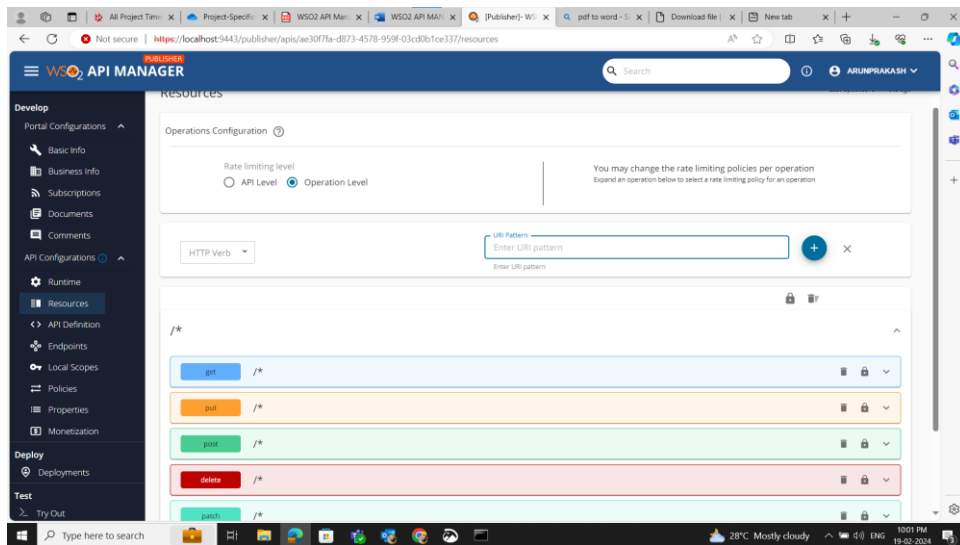
Step 8: Check the Subscription plan select based on needed.



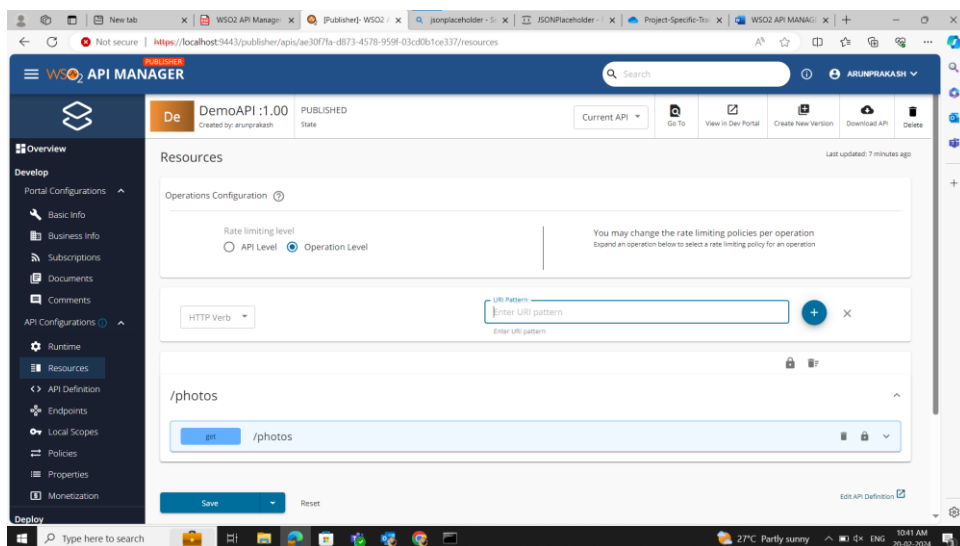
Step 9: Now start with API Configurations



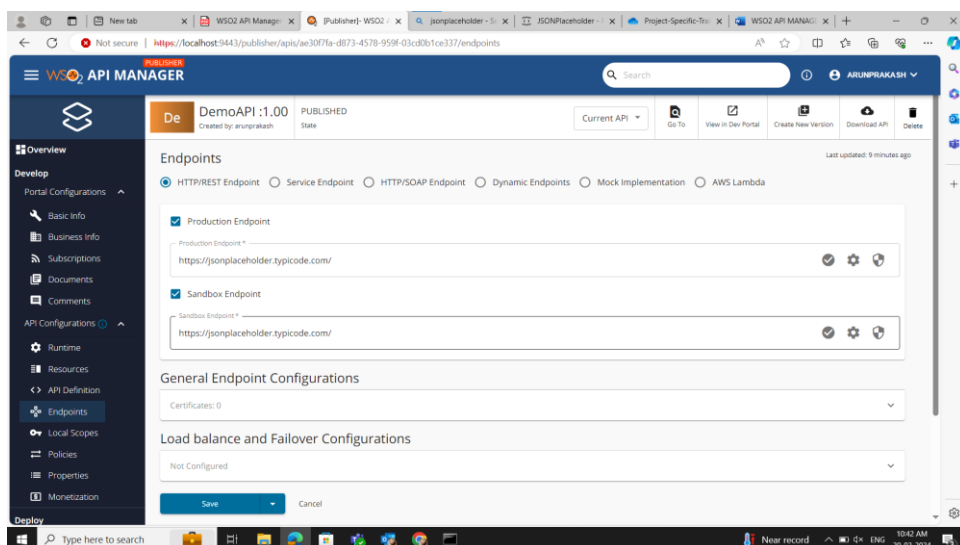
Step 10: Give the URL pattern where you want to access the data and select the HTTP Verb needed.



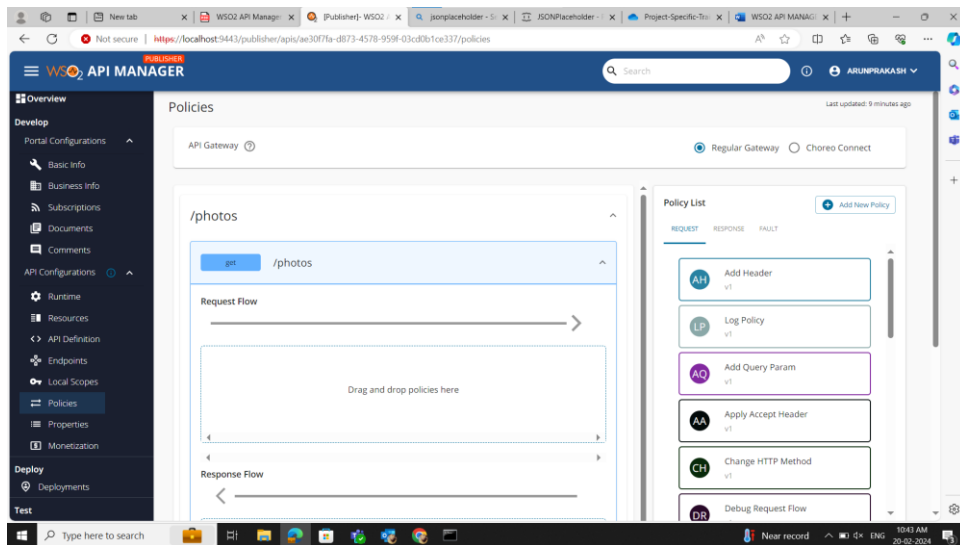
Step 11: I have given photos and created a GET method (Verb) for it.



Step 12: Check the EndPoints What type of endpoint needed based on your requirement.

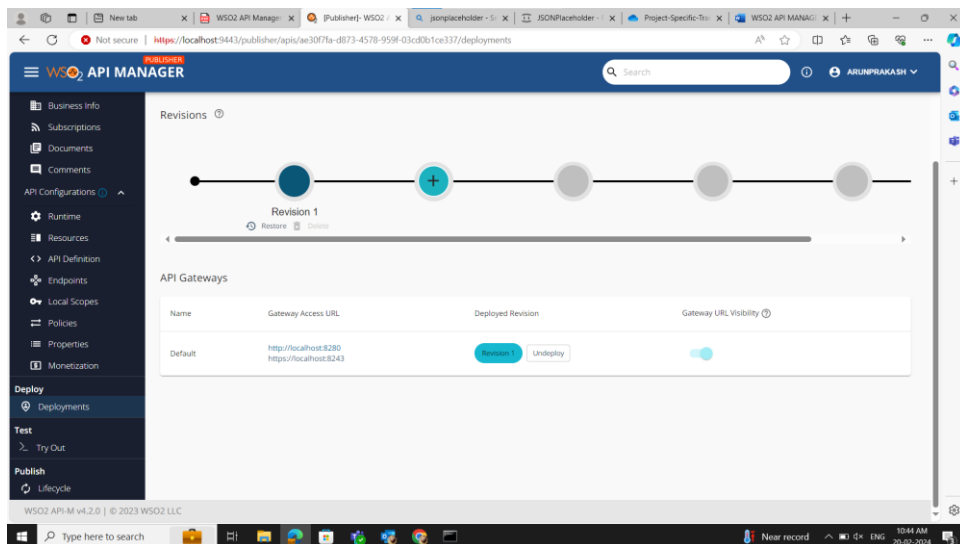


Step 13: Check the policies.

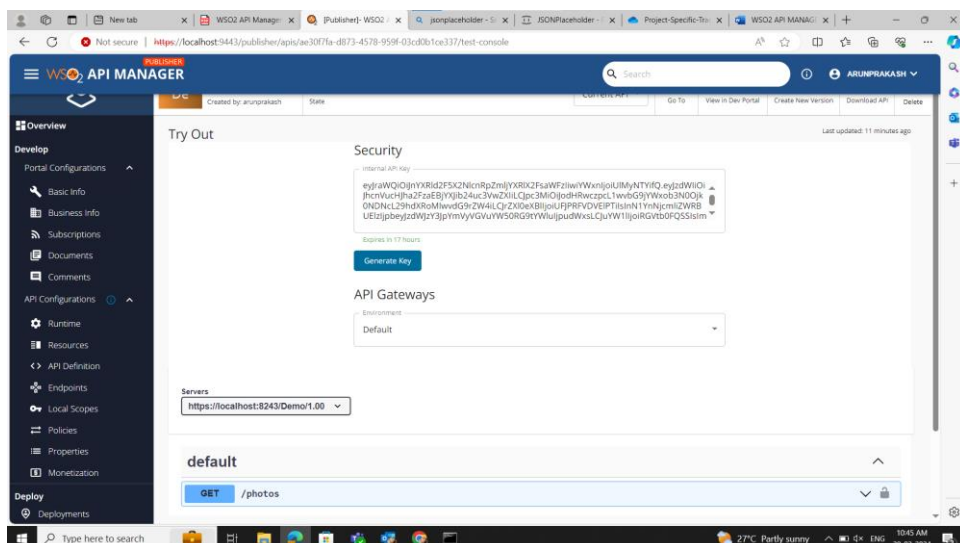


Step 14: Now you can deploy the API that you have designed and developed.

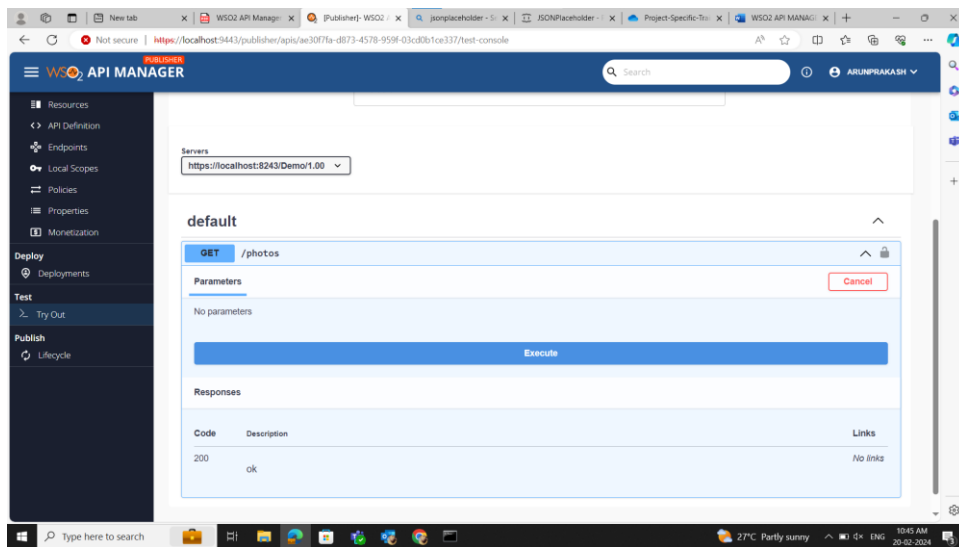
Step 15: You can deploy the API in revisions. (like after updated if u deploy u can give it revision 2)



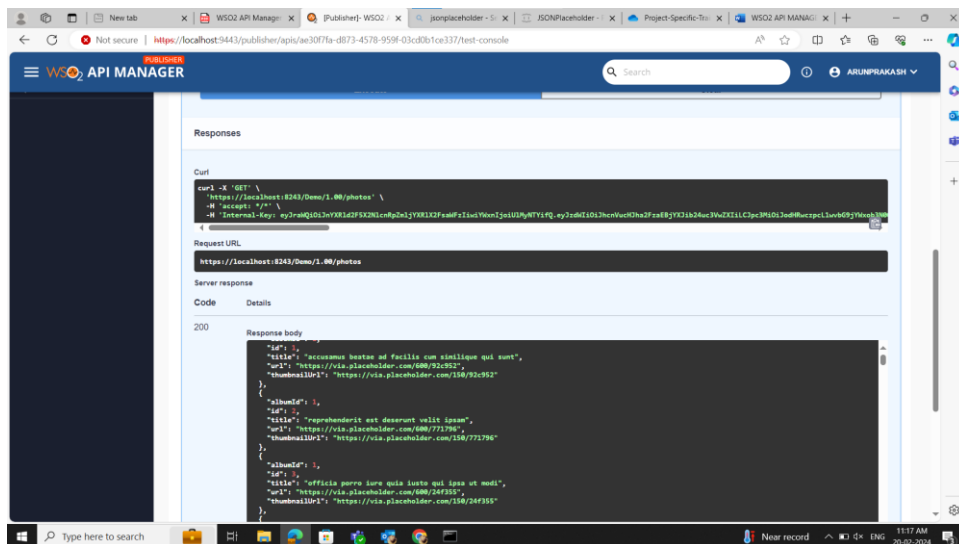
Step 16: Now you can Try out the API if you want after the deployment.



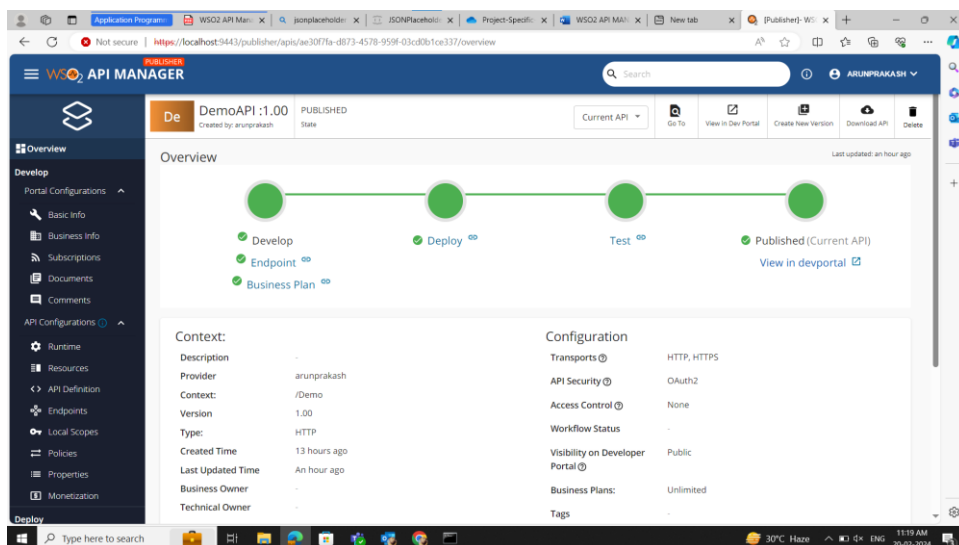
Step 17: Execute the GET request.



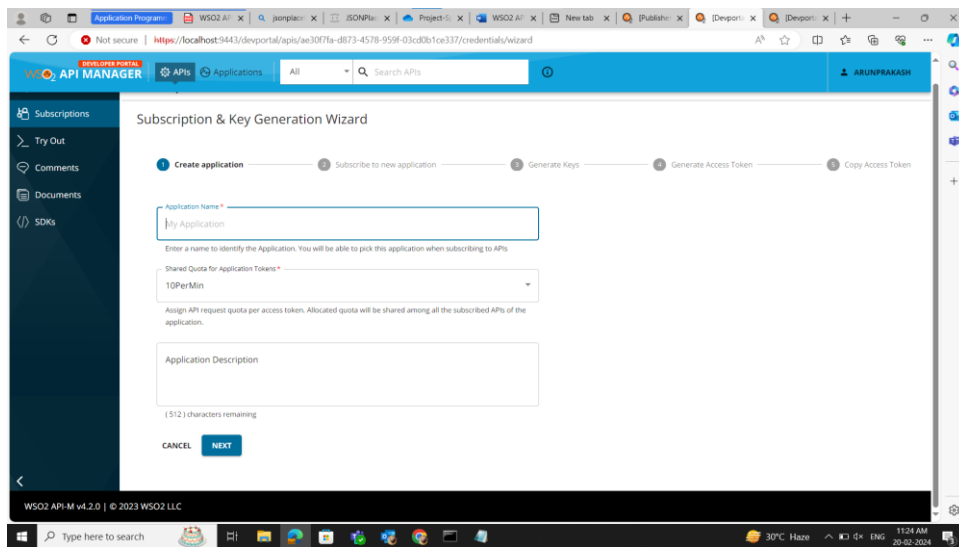
Step 18: See you will get response as status code 200 and Ok.



Step 19: Now publish your API.

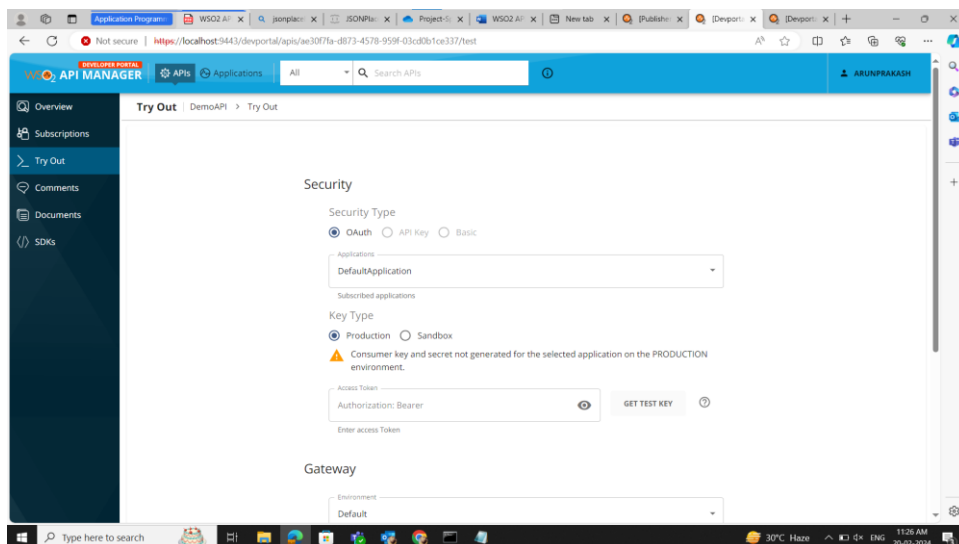


Step 20: Now navigate to developer console and do subscription before using it.

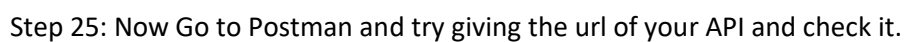


Step 21: Copy the Auto generated Access Token.

Step 22: Now Tryout your Published API with get method.



Step 23: Give Execute in GET Request.



Step 25: Make sure you have provided the access token and send the Request and you should get response.

