

The response from the first task (successful login) would be the pre requisite to proceed further with testing the services – assuming this is going to be a resource/password driven grant type.

In this case, if there are 3 micro-services each with 1-5 end points, then it becomes crucial to first test these end points individually. Once we have carried out the above test where each end point is tested, we need to ensure that micro services itself are tested in isolation and end to end.

The above concept is well established when considering development done via mulesoft.

This includes 3 layers each handling specific scenarios:

1. System api's
2. Process api's
3. Experience api's

System Api's – is like a wrapper service to either database or saas. We can directly get data by providing input parameters like member number. Testing these services do not require any authentication.

Process Api's – contains the business logic which validates the search on system api's.

Experience Api's – these are the api's which are exposed to the clients. This would require authentication. Depending on type of service this is going to use, the grant type can be client-credential based OR resource based.

The experience api's will first go through process api's which holds the business logic to get the data from system api's.

Testing experience api's will ensure that we have covered the end to end test.

