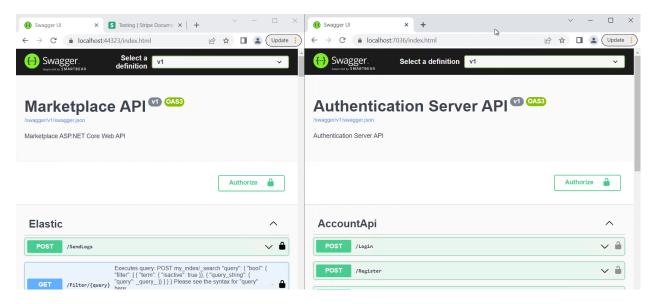
## Before you start

First, you should enable https endpoint: <a href="https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-tutorial-dotnet-app-enable-https-endpoint">https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-tutorial-dotnet-app-enable-https-endpoint</a>.

To make Identity Server work, we need to add self-signed certificate. From PowerShell, run command:

C:\program files\microsoft sdks\service fabric\clustersetup\secure> .\CertSetup.ps1 -Install - CertSubjectName CN=mytestcert

There are 2 web applications in the solution: Marketplace. Auth and the Marketplace. API (pic.1). We will show their work on the local machine. You can also test the API with a postman, but for convenience, we connected the swagger to the API of both web applications. This document will show how authorization works.



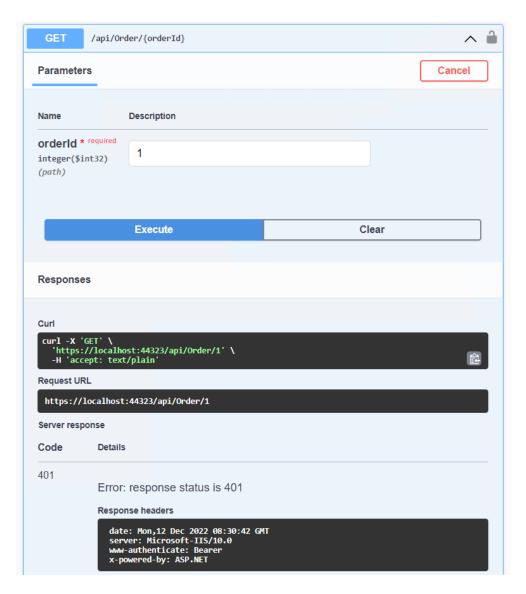
Pic.1 Web applications

## Authorization

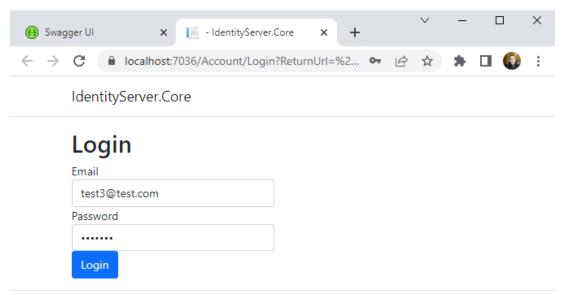
If no users registered, a new one should be created using the POST /Register API.

If we try to access data from API -> Orders -> GET /api/Order/{orderId} being not authorized, we will

receive a response with a 401-status code (pic.2). To proceed, we should click button. In opened dialog, click on the Authorize button again. You will be redirected to the identity server web application. You can see that the port in the URL has changed. The login page will open (pic.3).

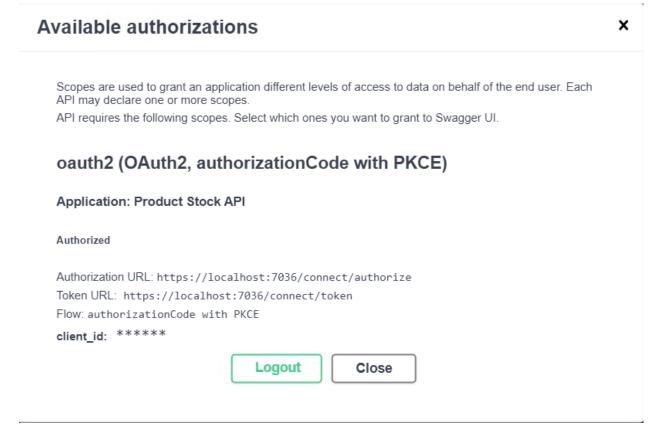


Pic. 2 401-status code



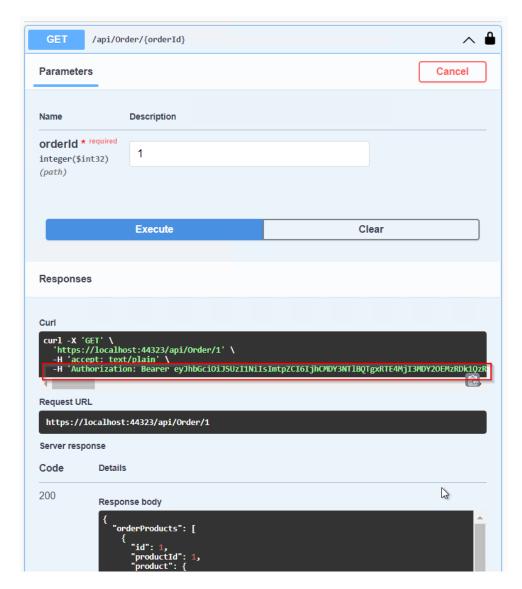
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After entering the login and password and clicking Login, we will be authorized and redirected back to the swagger page (pic.4):



Pic. 4 Successful authorization

You can safely close this popup, since we are authorized and the swagger is already responsible for storing and using the access token. If you use Postman, then the flow will be slightly different, but even there the goal will be to get an access token. Now let's try to access the protected resource again. As we can see, the swagger took care of substituting the access token in the header and allowed us to access the API successfully (pic.5).



Pic.5 Authorized action

## Marketplace. Auth methods description

AccountAPI has such methods (pic.6)

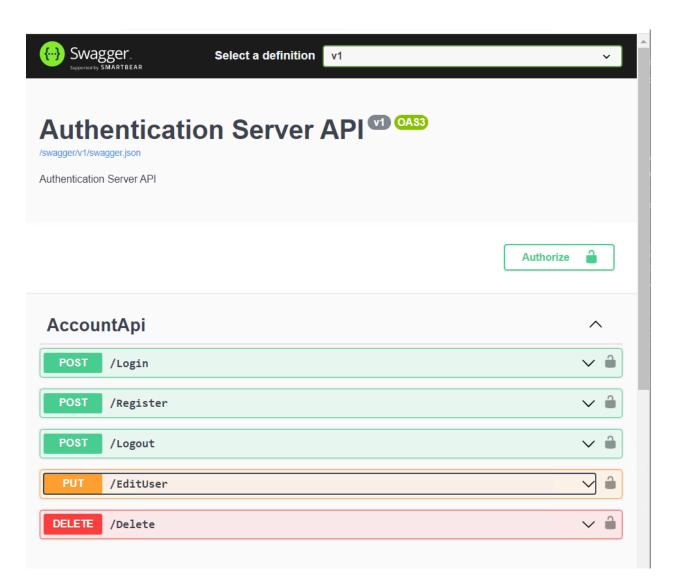
/Login - user authorization. Just an additional authorization method. This is not the same with the authorization page where we entered the username and password.

/Register - registration of a new user. On an empty database, you will need to add a new user.

/Logout - logout the current user. Protected resource, requires the user to be authorized.

/EditUser - editing the current user. A protected resource that requires the user to be authorized.

/Delete - delete the current user. A protected resource that requires the user to be authorized.



Pic.6 AccountApi methods