## You

How do I generate a OAuth or JWT token from repository in a VS code folder that is hosted to the web through the five server extension?

## Copilot

Certainly! To generate an OAuth or JWT token in a .NET 5.0 API hosted through the Five Server extension, follow these steps:

1. **Create a .NET 5.0 API Project with JWT Authentication**:
   * You can start by creating an empty web project using the .NET CLI:
   * Add JWT authentication to your project by configuring it in Program.cs:
2. **Run the API Locally**:
   * Download or clone the tutorial project code from [here](https://github.com/cornflourblue/dotnet-5-jwt-authentication-api).
   * Navigate to the project root folder and run:
   * The API will be available at <http://localhost:4000>.
3. **Test with Postman**:
   * Download and install [Postman](https://www.postman.com/downloads).
   * Authenticate a user to get a JWT token from the API:
     + Send an HTTP POST request to /users/authenticate with the username and password in the request body.
     + If the credentials are correct, you'll receive a JWT token.
   * Make an authenticated request to retrieve a list of users:
     + Send an HTTP GET request to /users with the JWT token in the Authorization header.

Remember to replace placeholders like "domain.com" and "YOUR\_SECRET\_KEY" with your actual values. Let me know if you need further assistance! 😊

Source: Conversation with Copilot, 8/15/2024

1. [.NET 5.0 - JWT Authentication Tutorial with Example API](https://jasonwatmore.com/post/2021/04/30/net-5-jwt-authentication-tutorial-with-example-api)
2. [Generate tokens with dotnet user-jwts | Microsoft Learn](https://learn.microsoft.com/en-us/aspnet/core/security/authentication/jwt-authn?view=aspnetcore-8.0)
3. [Blazor: Json Web Token (JWT) Authentication Example - Simple](https://www.prowaretech.com/articles/current/blazor/wasm/jwt-authentication-simple)
4. [visual studio code - Is it possible to Auth to an OAuth 2.0 API from ...](https://stackoverflow.com/questions/38317735/is-it-possible-to-auth-to-an-oauth-2-0-api-from-inside-a-vscode-extension)
5. [JWT Authentication Tutorial without ASP.NET Core Identity - Jason Watmore](https://jasonwatmore.com/net-7-csharp-jwt-authentication-tutorial-without-aspnet-core-identity)
6. <https://github.com/cornflourblue/dotnet-5-jwt-authentication-api>
7. <https://www.postman.com/downloads>

## You

How can I a google cloud console agent builder widget on my localhost?

## Copilot

Certainly! To add a Google Cloud Console Agent Builder widget to your localhost, follow these steps:

1. **Configure Results for the Search Widget**:
   * In the Google Cloud console, go to the Agent Builder page.
   * Click the name of the search app you want to edit.
   * Configure how the widget displays search results for unstructured data. You can find more details in the [official documentation](https://cloud.google.com/generative-ai-app-builder/docs/configure-widget-attributes).
2. **Add the Search Widget**:
   * Go to the Agent Builder page in the Google Cloud console.
   * Click the name of the app you want to edit.
   * Click Integration, then navigate to the Widget tab.
   * Choose either JWT or OAuth-based as the widget authorization type.
   * Specify the domain name for the widget page (e.g., localhost for testing).
   * Click Add for each domain where the widget will appear.
   * Save the changes.
   * Copy the code snippet provided in the "Copy the following code to your web application" section.
   * In your codebase, generate an authorization token and pass it to your widget using the second code snippet provided.
3. **Configure Widget Feedback (Optional)**:
   * If you want to enable feedback buttons, go to the Agent Builder page.
   * Click the name of the search app you want to edit.
   * Navigate to Configurations > UI.
   * Toggle "Enable feedback" to turn feedback buttons on or off.
   * Save and publish your changes.

Remember to replace placeholders with your actual values. Let me know if you need further assistance! 😊

Source: Conversation with Copilot, 8/15/2024

1. [Add the search widget to a web page | Vertex AI Agent Builder | Google ...](https://cloud.google.com/generative-ai-app-builder/docs/add-widget)
2. [Configure widget feedback | Vertex AI Agent Builder - Google Cloud](https://cloud.google.com/generative-ai-app-builder/docs/configure-feedback)
3. [Configure results for the search widget | Vertex AI Agent Builder ...](https://cloud.google.com/generative-ai-app-builder/docs/configure-widget-attributes)
4. <https://www.googleapis.com/auth/cloud-platform>

## You

How can I generate the authorization token in VS code if testing with localhost?

## Copilot

Certainly! To generate an authorization token for testing with localhost in VS Code, follow these steps:

1. **Create a JWT Token (for testing)**:
   * If you're using JWT (JSON Web Tokens) for authentication, you can create a token manually or use a library to generate it.
   * In your .NET 5.0 API (or any other backend), create a method that generates a JWT token. You'll need a secret key and the necessary claims (e.g., user ID, roles).
   * Here's a simplified example using the System.IdentityModel.Tokens.Jwt package:
   * Replace "your\_username" and other claims with actual values.
2. **Use the Token in Your Widget**:
   * Once you have the token, pass it to your Google Cloud Console Agent Builder widget.
   * If the widget expects the token in the request headers, set the Authorization header to "Bearer {your\_token}".

Remember to replace placeholders like "YOUR\_SECRET\_KEY" and "your\_username" with your actual values. Let me know if you need further assistance! 😊