






 domaindrivendev / Swashbuckle.AspNetCore





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Combine multiple swagger docs #2043

 Closed

ponsakthi opened this issue on Mar 3, 2021 · 5 comments

Labels

[responded](#)

ponsakthi commented on Mar 3, 2021 • edited

Is there a way to combine multiple swagger documents to a single one?

Update:

In a microservice architecture where APIs are hosted on multiple different microservices, we are thinking of an approach to host a single microservice called swagger aggregator, which can collect swagger jsons from multiple microservices by invoking their swagger endpoints, stitch them together to look like a single swagger UI .

Eg: Customer API service, Product API service, Purchase Order API service are individual microservices that have their own swagger json. We would like to build documentation API service that can invoke other 3 microservice endpoints to get their swagger json, stitch it up and build a single swagger json . For API developers, the landing page would be the one exposed by Documentation API service.




5

domaindrivendev commented on Mar 17, 2021

Owner

It's very difficult to address one-liner issues like this. If you want me or others to invest our personal time into solving it, then please follow suit by investing some of your own time into clearly articulating what you're trying to do (background, code samples etc.)

 domaindrivendev added the [responded](#) label on Mar 17, 2021

ponsakthi commented on Mar 19, 2021

Author

It's very difficult to address one-liner issues like this. If you want me or others to invest our personal time into solving it, then please follow suit by investing some of your own time into clearly articulating what you're trying to do (background, code samples etc.)

Sorry. Updated original question with more information



domaindrivendev commented on Mar 19, 2021 • edited

Owner

OK that's much more helpful - thx. So, there's nothing you can use out-of-the-box for this. But, if you're willing to write a little bit of custom code, you could implement your "aggregator" app as follows (in fact this could be an interesting community add-on project if you're interested :wink)

1. Configure the Swagger (`UseSwagger`) and SwaggerUI middleware (`UseSwaggerUI`) as you normally would but don't register the Swagger generator service - i.e. remove the `services.AddSwaggerGen` section from your `Startup.cs` . Instead, replace it with the following:

```
services.AddTransient<ISwaggerProvider, SwaggerAggregator>();
```



2. Implement the `SwaggerAggregator` class:

```
public class SwaggerAggregator : ISwaggerProvider
{
    public OpenApiDocument GetSwagger(string documentName, string host = null, string basePath = null)
    {
        // Loop through list of microservices and retrieve corresponding swagger.json for each one
        // Merge the Swagger JSON to a single aggregated JSON structure
        // Deserialize to an OpenApiDocument and return
    }
}
```



The aggregation code could be relatively straightforward. To help with the deserialization of Swagger JSON to an OpenApiDocument, you can do something along the following lines:

```
var openApiDocument = new OpenApiStreamReader().Read(contentStream, out OpenApiDiagnostic diagnostic);
```



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duckwaffle mentioned this issue on Dec 17, 2021

Is there a way to specify specific OpenApiServer's for each individual path? #2296

Open



RadientBrain mentioned this issue on Mar 7, 2023

Combining multiple swagger docs and typedoc docs into a single umbrella swaggo/gin-swagger#257

Open

joacar commented on Apr 3

Waking up this old thread, but how do I merge multiple with the generated? I.e. can I combine `AddSwaggerGen` with a custom `ISwaggerProvider` ?

Thanks



martincostello commented on May 4

Collaborator

Closing this as resolved by [#2043 \(comment\)](#).



martincostello closed this as completed on May 4

Assignees

No one assigned

Labels

responded

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

4 participants

