

Build history for master (last 19 builds)

Max build time: 00:02:21 Min build time: 00:00:31 Avg build time: 00:01:40



Workshop Refit & Polly

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Refit

Refit: The automatic type-safe REST library for .NET Core, Xamarin and .NET

```
public interface IRemoteApi
        [Get("/posts")]
        Task<IEnumerable<Post>> GetAllPostsAsync();
        [Post("/posts")]
        [Headers("Authorization: Bearer")]
        Task<Post> AddPostAsync([Body]Post post);
        [Delete("/posts/{id}")]
        [Headers("Authorization: Bearer")]
        Task DeletePostByIdAsync(int id);
```

Refit - sample code

Refit - Scenario 1

Simple api calls

Refit - Scenario 2

Logging

Refit - Scenario 3

Authenticated api calls

Polly

Policies:

- Retry
- CircuitBreaker
- Timeout
- Bulkhead Isolation
- Cache
- Fallback
- PolicyWrap

Polly - sample code

```
// Retry multiple times, calling an action on each retry
// with the current exception, retry count and context
// provided to Execute()
var _retryPolicy = Policy.Handle<SomeExceptionType>()
        .Retry(3, (exception, retryCount, context) =>
        // do something to prevent the next exception
        });
await retryPolicy.ExecuteAsync(
        remoteApi.GetAllPostsAsync()
);
```

Retry

Fallback

CircuitBreaker

Retry with fallback

CircuitBreakerWithRetryAndFallBack

HttpClientHandler

- MSDN Documentation
- Scott Hanselmans post With REFIT

Polly - Unit testing

Alternatives - Flurl

- Flur.io
- Blog post

Alteratives - DalSoft.RestClient

```
C#!
var config = new Config().UseFormUrlEncodedHandler();

dynamic restClient = new RestClient("https://jsonplaceholder.ty
var user = new User { name="foo", email="foo@bar.com" };

//POST name=foo&email=foo@bar.com https://jsonplaceholder.typi
result = await client
    .Headers(new { ContentType = "application/x-www-form-urlencod
    .User(1)
    .Post(user);
```

- Blogpost
- Github

Setup sample project

https://github.com/jacobduijzer/RefitPollyWorkshop

- Get the source from GitHub
- in folder src/api: npm install
- in the folder src/api: npm run start
- configure & run the console app

Links

- Sample repository
- Refit
- Polly
- JSON Server
- Presentation created from markdown with Marp