



HttpClientFactory

HttpClientFactory

instantiates

HttpClient

Use handler from pool

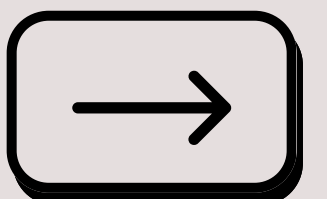
HttpMessageHandler
Pool

API





- ✓ HttpClientFactory creates new HttpClient instance.
- ✓ **But**, instead of recreating SocketsHttpHandler, **it takes one from a pool.**
- ✓ SocketsHttpHandler call the API.
- ✓ So, any request for a new HttpClient can share a previously created handler thus connection as well.
- ✓ **Reusing handler allows reusing underlying connection, which solves the socket issue.**

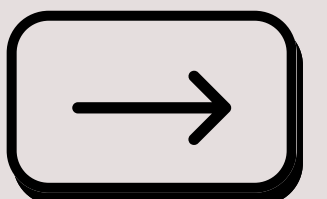




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- ✓ SocketsHttpHandler instance is only around for **about 2 mins, unless it's in use.**
- ✓ **Disposing the handler after 2 mins solves the DNS issue.**
- ✓ Once a new new instance of the handler is used, DNS changes are taken into account.



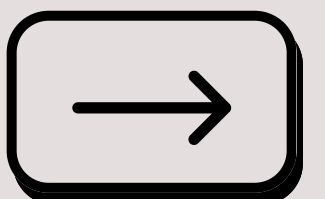


Using HttpClientFactory

```
//In Program.cs file  
builder.services.AddHttpClient();
```



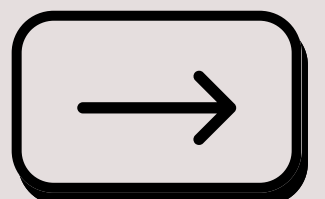
```
private readonly IHttpClientFactory _httpClientFactory;  
  
public HttpClientFactoryService(IHttpClientFactory httpClientFactory)  
{  
    _httpClientFactory = httpClientFactory;  
}  
  
public async Task<string> GetDataAsync(string url)  
{  
    var httpClient = _httpClientFactory.CreateClient();  
  
    var response = await httpClient.GetAsync(url);  
    response.EnsureSuccessStatusCode();  
    return await response.Content.ReadAsStringAsync();  
}
```





Features of HttpClientFactory

- ✓ HttpClientFactory provides a central location for naming and configuring logical HttpClient.
- ✓ Useful when you need to integrate with different API's from your client.
- ✓ We can configure handlers and polices through something like **polly**.
- ✓ Supports **Typed Clients** for better encapsulation and dependency injection.
- ✓ Supports **Named Client**, allows for creating clients with specific configurations.





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