

Implementing Logging with Elasticsearch in ASP.NET Core

Elasticsearch is a search engine based on the Lucene library. It provides a distributed, multitenant-capable full-text search engine with an HTTP web interface and schema-free JSON documents

Steps

1. Install NuGet Package(s) into your Project

<u>Serilog.AspNetCore</u>	Serilog support for ASP.NET Core logging
<u>Serilog.Enrichers.Environment</u>	Enrich Serilog log events with properties from System.Environment.
<u>Serilog.Exceptions</u>	Serilog.Exceptions is an add-on to Serilog to log exception details and custom properties that are not output in Exception.ToString()
<u>Serilog.Sinks.Debug</u>	A Serilog sink that writes log events to the debug output window
<u>Serilog.Sinks.Elasticsearch</u>	Serilog sink for Elasticsearch

2. Adding Serilog in appsettings.json

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```
"Serilog": {  
  "MinimumLevel": {  
    "Default": "Information",  
    "Override": {  
      "Microsoft": "Information",  
      "System": "Warning"  
    }  
  }  
},
```

3. Adding ElasticConfiguration in appsettings.json

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```
"ElasticConfiguration": {  
    "Uri": "http://localhost:9200"  
},
```

4. Register Serilog or ELK services in Program.cs or Startup

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```
services.AddSerilog();  
LoggerSerilogELK.ConfigureLogging(Configuration);
```

5.Add Base Class(you need to add the basic code to the project)

<https://github.com/abolfazlSadeqi/DotNetCleanArchitectureJwtRedisDistributedCaching/blob/master/Src/Base/Common/HelperLog/LoggerSerilogELK.cs>

6.Register Example logs in your application

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```
//Controller
```

```
private readonly ILogger<CustomersController> _logger;
```

```
public CustomersController(ILogger<CustomersController>logger)
```

```
{
```

```
    _logger = logger;
```

```
        _DistributedCache = DistributedCache;
```

```
}
```

```
//Action:
```

```
_logger.LogInformation(start_Customer");
```

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