**SOA Exercise Guide - April 2021**

*The exercises are all in Github here:* [*https://freo.me/ox-soa-labs*](https://freo.me/ox-soa-labs)

|  |  |
| --- | --- |
| Exercise | Description |
| 1 | Simple HTTP JSON Server in Typescript |
| 2 | Simple HTTP JSON Client in Python |
| 3 | Creating a RESTful API in Typescript with tsoa |
| 4 | Getting started with Docker |
| 5 | The Richardson Maturity Model – making our API RESTful |
| 6 | Using OpenAPI to describe services |
| 7 | Docker packaging of your API including Docker Compose |
| 8 | Performance testing HTTP with autocannon |
| 9 | OAuth2 based identities for API calls |
| 10 | API Management |
| 11 | Event Driven Architecture with NATS |
| 12 | gRPC |
| 13 | GraphQL |
| 14 | TLS certificates |
| 15 | SOAP to REST conversion using Ballerina |
| 16 | Building a BPMN process |