**SOA Exercise Guide - December 2018**

**The VM is available on a hard disk in the room, or you can get it from the net (slowly).**

It is available either for VMWare (zip file) or for VirtualBox (.ova).   
  
VirtualBox is a free download at [https://virtualbox.org](http://virtualbox.org)

**VMWare VM:** <https://s3-eu-west-1.amazonaws.com/oxsoa-2018/oxsoa-dec-2018-vmware.zip>  
**VirtualBox VM:** <https://s3-eu-west-1.amazonaws.com/oxsoa-2018/oxsoa-dec-2018-vb.ova>   
**VM User/Password:** *oxsoa/oxsoa*

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

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| Exercise | Description and PDF link |
| 1 | Simple HTTP JSON Server in node.js |
| 2 | Simple HTTP JSON Client in Python |
| 3 | Creating a RESTful API in Java – framework |
| 4 | The Richardson Maturity Model – making our Java API RESTful |
| 5 | Using Swagger to describe services |
| 6 | Performance testing HTTP with wrk |
| 7 | Getting started with Docker |
| 8 | Docker packaging of your microservice |
| 9 | Event Publishing |
| 10 | gRPC |
| 11 | SSL certificates |
| 12 | OAuth2 based identities for API calls |
| 13 | API Management |
| 14 | SOAPUI |
| 15 | SOAP to REST conversion |
| 16 | Building a BPMN process |