

# SOA Exercise Guide - 2017

VM location: <https://s3-eu-west-1.amazonaws.com/ox-soa2-2017/oxsoa-vm-2017.zip>

VM User/Password: oxsoa/oxsoa

Exercise	Description and PDF link	
1	Simple HTTP JSON Server in node.js	<a href="http://freo.me/1ttW4em">http://freo.me/1ttW4em</a>
2	Simple HTTP JSON Client in Python	<a href="http://freo.me/1UQR8ph">http://freo.me/1UQR8ph</a>
3	Understanding SOAP – calling a SOAP service with SOAP UI	<a href="http://freo.me/1UQR0oh">http://freo.me/1UQR0oh</a>
4	Creating a SOAP service from an existing Java bean	<a href="http://freo.me/1UQRGeS">http://freo.me/1UQRGeS</a>
5	Generating a Java client from a WSDL	<a href="http://freo.me/1UQRaO8">http://freo.me/1UQRaO8</a>
6a	Creating a RESTful API in Java – framework	<a href="http://freo.me/1UQQQim">http://freo.me/1UQQQim</a>
6b	The Richardson Maturity Model – making our Java API RESTful	<a href="http://freo.me/1UQSCzZ">http://freo.me/1UQSCzZ</a>
7	Creating a Microservice – UberJAR packaging	<a href="http://freo.me/1UQRsEv">http://freo.me/1UQRsEv</a>
7b	Using Swagger to describe services	<a href="https://freo.me/2qPLVqT">https://freo.me/2qPLVqT</a>
7c	Performance testing HTTP with Siege	<a href="https://freo.me/2qPqqpS">https://freo.me/2qPqqpS</a>
8	Getting started with Docker	<a href="http://freo.me/1UQR0pY">http://freo.me/1UQR0pY</a>
9	Creating a Dockerised Microservice	<a href="http://freo.me/1UQRvQU">http://freo.me/1UQRvQU</a>
10	Using an ESB to mediate between SOAP and REST	<a href="http://freo.me/1UQRKve">http://freo.me/1UQRKve</a>
11a	Using SSL server and client certificates to secure communications	<a href="http://freo.me/1WMYn38">http://freo.me/1WMYn38</a>
11b	Using OAuth2 with the WS02 Identity Server to authenticate and authorize access	<a href="http://freo.me/1WMzgSV">http://freo.me/1WMzgSV</a>
12	API Management	<a href="http://freo.me/1UQSmAW">http://freo.me/1UQSmAW</a>
13	Building a BPMN process	<a href="http://freo.me/1UQRv3k">http://freo.me/1UQRv3k</a>
14		<a href="https://freo.me/2qPEboH">https://freo.me/2qPEboH</a>
Bonus	Creating a RESTful data service with Express and MongoDB	<a href="http://freo.me/1UQSgth">http://freo.me/1UQSgth</a>

## Quick reference

Server	Offset	Directory	Admin Port / web
Tomcat	NA	~/servers/tomcat	<a href="http://localhost:8080">http://localhost:8080</a>
Enterprise Service Bus	1	~/servers/wso2esb-4.9.0	<a href="https://localhost:9444">https://localhost:9444</a>
API Manager	4	~/servers/wso2am-1.10.0	<a href="https://localhost:9447">https://localhost:9447</a>
DAS	5	~/servers/wso2das-3.0.1	<a href="https://localhost:9448">https://localhost:9448</a>
BPMN / Camunda	NA	~/servers/camunda/server/apache-tomcat-8.0.24	<a href="http://localhost:8080/camunda">http://localhost:8080/camunda</a>