**Exercise Guide**

**VM location:**[**https://s3-eu-west-1.amazonaws.com/ox-soa2-2016/oxsoa-vm-2016-v2.zip**](https://s3-eu-west-1.amazonaws.com/ox-soa2-2016/oxsoa-vm-2016-v2.zip)

**U/P: oxsoa/oxsoa**

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| Exercise | Description and PDF link |  |
| 1 | Simple HTTP JSON Server in node.js | <http://freo.me/1ttW4em> |
| 2 | Simple HTTP JSON Client in Python | Done |
| 3 | Understanding SOAP – calling a SOAP service with SOAP UI | Done |
| 4 | Creating a SOAP service from an existing Java bean | Done |
| 5 | Generating a Java client from a WSDL | Done |
| 6a | Creating a RESTful API in Java – framework | Done |
| 6b | The Richardson Maturity Model – making our Java API RESTful | Done |
| 7 | Creating a Microservice – UberJAR packaging | Done |
| 8 | Getting started with Docker | Done |
| 9 | Creating a Dockerised Microservice | Done |
| 10 | Using an ESB to mediate between SOAP and REST |  |
| 11a | Using SSL server and client certificates to secure communications | Done |
| 11b | Using OAuth2 with the WSO2 Identity Server to authenticate and authorize access |  |
| 12 | API Management | Done |
| 13 | Building a BPMN process |  |
| Bonus | Creating a RESTful data service with Express and MongoDB |  |

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