**Exercise Guide**

**VM location:** [**http://freo.me/ox-soa-vm-2015**](http://freo.me/ox-soa-vm-2015)

**U/P: ox-soa/ox-soa**

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| Exercise | Description and PDF link |  |
| 1 | Simple HTTP JSON Server in node.js | Hi |
| 2 | Simple HTTP JSON Client in Python |  |
| 3 | Understanding SOAP – calling a SOAP service with SOAP UI |  |
| 4 | Creating a SOAP service from an existing Java bean |  |
| 5 | Generating a Java client from a WSDL |  |
| 6a | Creating a RESTful API in Java – framework |  |
| 6b | The Richardson Maturity Model – making our Java API RESTful |  |
| 7 | Creating a Microservice – UberJAR packaging |  |
| 8 | Getting started with Docker |  |
| 9 | Creating a Dockerised Microservice |  |
| 10 | Securing an API in Node.js and Python with OAuth2 |  |
| 11 | Using an ESB to mediate between SOAP and REST |  |
| 12 | API Management |  |
| 13 | Building a BPMN process |  |

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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> |
| Governance Registry | 2 | ~/servers/wso2greg-5.2.0 | <https://localhost:9445> |
| API Manager | 4 | ~/servers/wso2am-1.10.0 | <https://localhost:9447> |
| DAS | 5 | ~/servers/wso2das-3.0.1 | <https://localhost:9448> |
| BPMN | NA |  |  |