

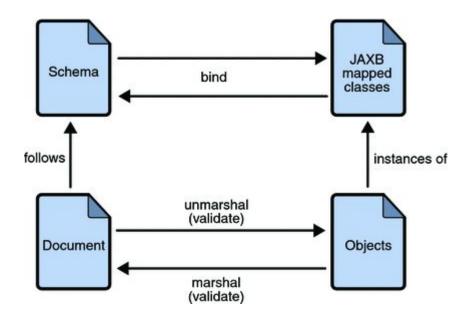
Lot 5 : Advanced modules of Jakarta EE stack Day 3

Training @FPS on November 17th 2020

Agenda

- 1. Day 2 recap
- 2. JAXB
- 3. SOA
- 4. JAX-WS

Java Architecture for Xml Binding



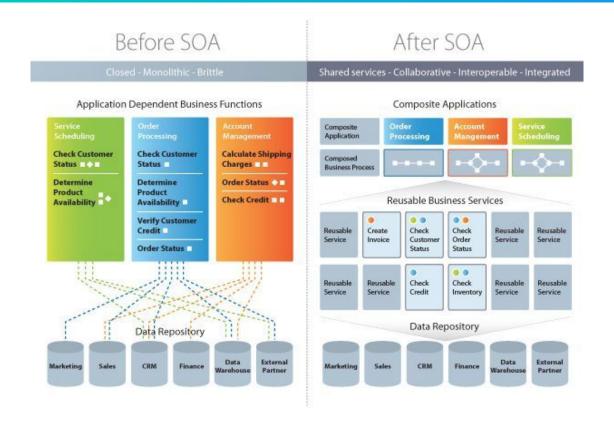
Credit: https://docs.oracle.com/cd/E19316-01/819-3669/bnazf/index.html



Workshop on JAXB

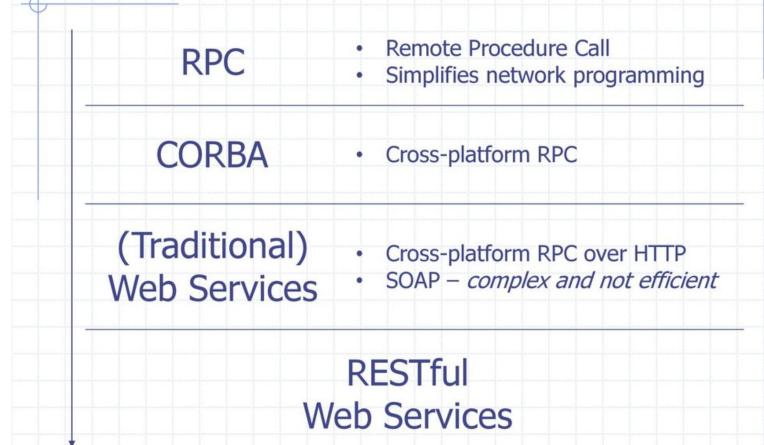


Credit: https://www.360logica.com/blog/soa-and-web-services-testing/



Credit: https://www.pinterest.fr/pin/656540451897156713/

A Brief History of Web Service

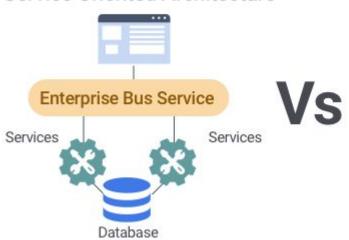




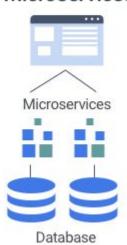




Service Oriented Architecture



Microservices



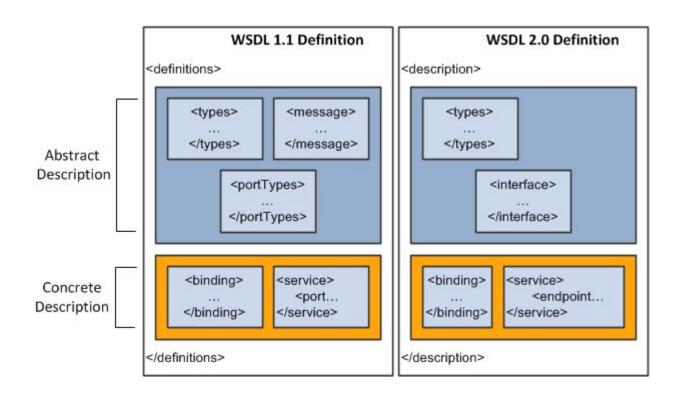
Credit: https://www.xenonstack.com/insights/service-oriented-architecture-vs-microservices/

Overview of SOAP

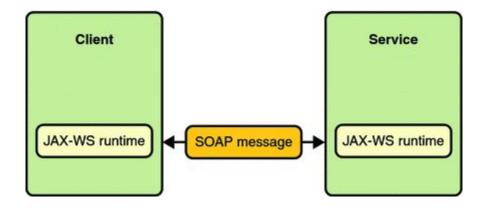
- Simple Object Access Protocol
- Is a type of Web Service
- Invented at Microsoft, now a standard at W3C
- Communication between Client and Server over HTTP
- Language XML is used for Requests are made via URL
- No browser involved

WebServices Description Language

- Contract definition
- Reference manual for WS
- XML document



Credit: https://docs.oracle.com/cd/E41633 01/pt853pbh1/eng/pt/tibr/concept UnderstandingProvidingWSDLDocuments-076201.html



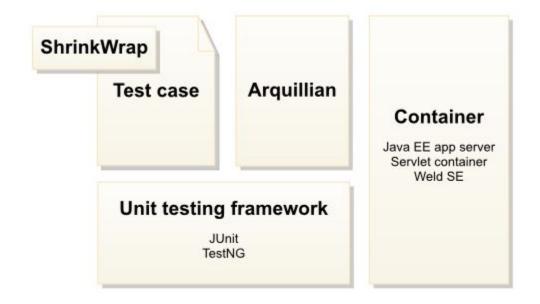
Credit: https://docs.oracle.com/javaee/5/tutorial/doc/bnayn.html

JAX WS

- Java API for XML based Web Services, part of JEE8
- Specification : http://jcp.org/en/jsr/detail?id=224
- Service Definition done in Java
- On server side : Generates the web service and its WSDL
- On client side: Write Java calls without needing to deal with the WSDL



Arquillian



Credit: https://docs.jboss.org/arquillian/reference/1.0.0.Alpha2/en-US/html_single/



Workshop on JAX-WS