



CSI02 – Arquitetura Orientada a Serviços

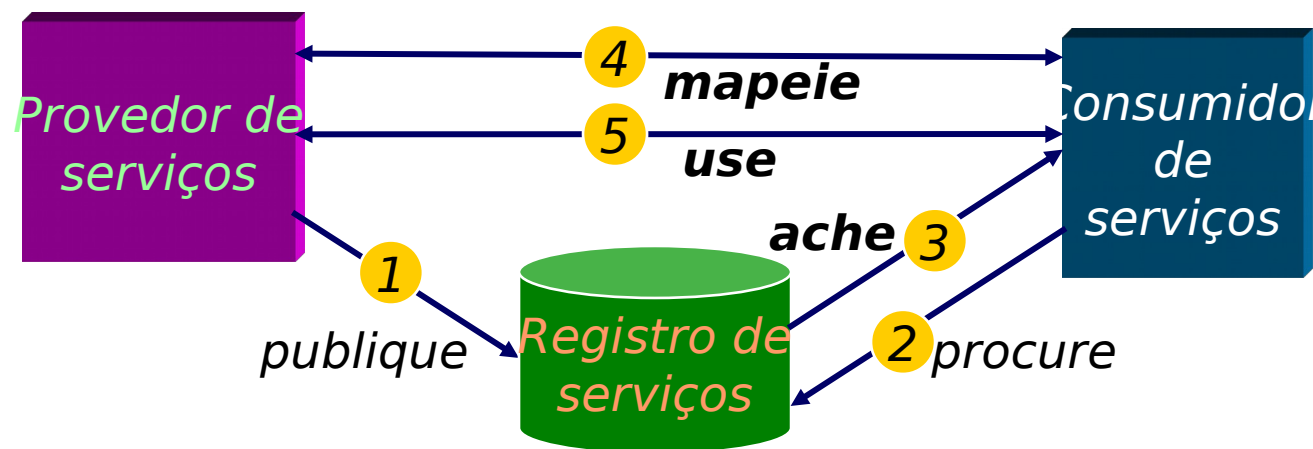
Fundamentos de Orientação a Serviços

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SOA

- Service Oriented Architecture
 - Novas palavras para um conceito antigo:
 - Arquitetura para aplicações baseadas em serviços (que usam serviços como componentes básicos)
 - Um serviço é a implementação de uma funcionalidade de negócio bem definida; aplicações com arquitetura SOA **combinam serviços para oferecer outros serviços**
- A principal forma de **implementar SOAs** hoje é através de **Web Services**
 - O motivo? **A interoperabilidade!**
- Find-Bind-Execute (Ache, Mapeie, Use) – paradigma central de um SOA





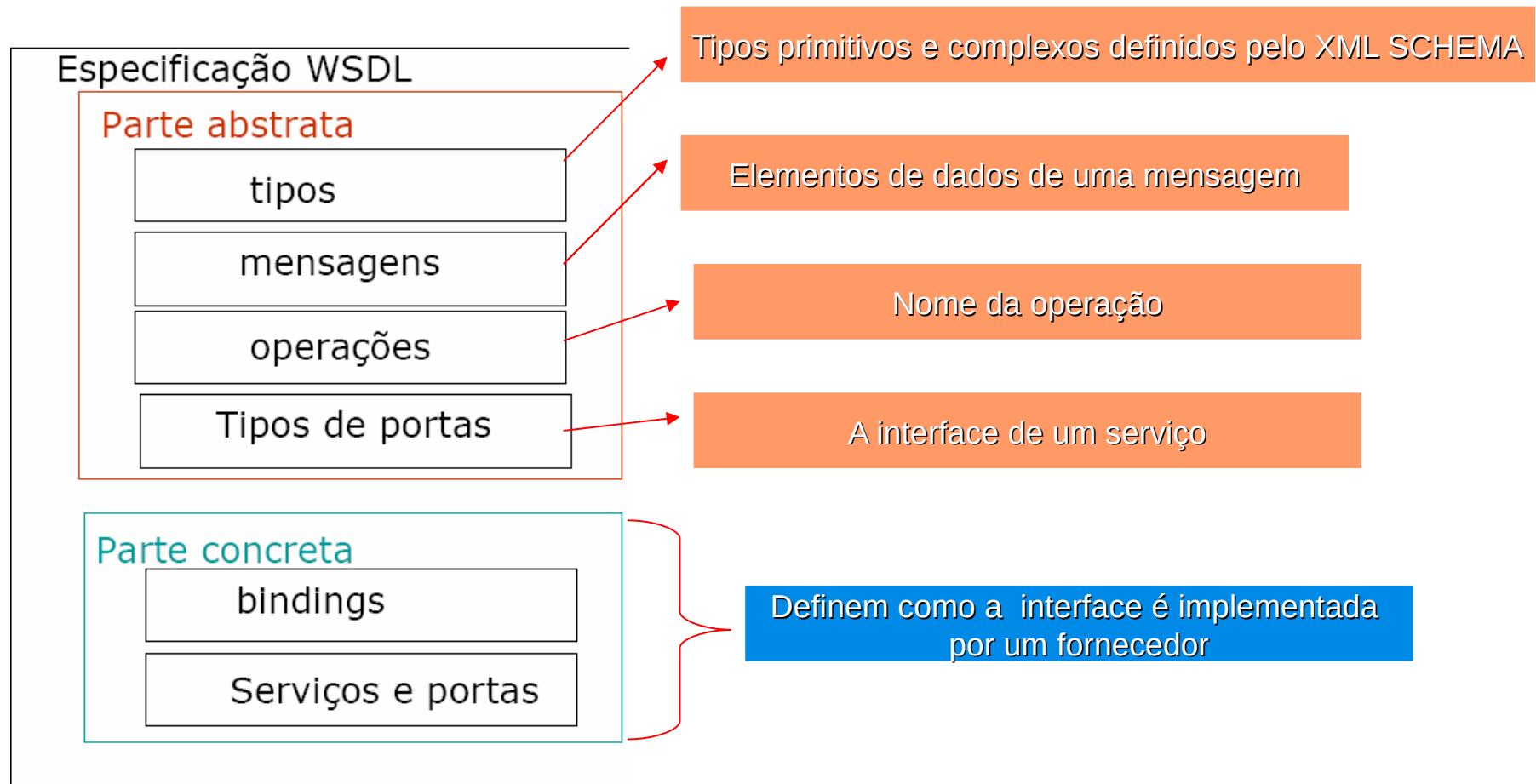
WSDL

O que é um Arquivo WSDL?

- Um arquivo WSDL (Web Service Description Language) é a descrição de um serviço Web através de um documento XML.

WSDL

O que WSDL Descreve?





➤ WSDL: Referência

https://www.ibm.com/support/knowledgecenter/pt/SS4JE2_7.5.5/org.eclipse.jst.ws.doc.user/ref/rwsdl.html

➤ WSDL: Ferramenta de Testes

<https://www.soapui.org/>



WSDL / Web Service






Webinars

Free one hour courses that cover the basics

- Functional Testing with SoapUI
- Load Testing with SoapUI
- Mocking with SoapUI
- Monitoring APIs with SoapUI



Sample Projects

Get started on your own with these tutorials


- REST API
- API Load Testing Strategies
- Amazon Web Service
- Google Maps



Case Studies

See how other organizations utilize SoapUI Pro

- Cisco
- Dun & Bradstreet
- Open Dealer Exchange
- Blisnode Kredit



Community

Engage with our online community

- Open Source Online Forum
- SoapUI Pro Support
- @SoapUI on Twitter
- SmartBear Connect



Training

Learn how to use SoapUI & SoapUI Pro from the experts

- Get SoapUI Certified
- On-Demand Training
- SoapUI Pro Free Training
- In-Person Training



Instalação e testes de execução





WSDL / Web Service



Sample SOAP Project in SoapUI

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Why Use SoapUI Pro for Web Service Testing?

While SoapUI Open Source can be seen as the Swiss Army knife for testing, SoapUI Pro is the tool with the sharpest edge. Applied to testing web services, SoapUI Pro focuses on enhancing efficiency and usability. With [Point and Click Testing](#), you can drag and drop instead of manually writing the code. [The Form Editor](#) creates a form from your request, eliminating the need for you to spend time on repetitive coding. [The Outline Editor](#) simplifies and exposes the XML structure. These functions make your testing less time-consuming. If creativity, flow and speed are important to you as a tester, SoapUI Pro is for you.

[Try SoapUI Pro - the world's most powerful web services testing tool](#)

Web Service Sample Project

Getting started with a new application is always a challenge, no matter how complex it is. In order to get started, SoapUI comes with a sample file that can be used as reference and inspiration.

Note: If you chose not to install tutorials when installing the product, you do not have the sample file. Use the SoapUI installer to update the existing installation and get access to the sample file.

The sample illustrates some of the basic concepts of SoapUI and can be used as a starting point. Try out the project, run the included mock service and tests to familiarize yourself with the SoapUI interface, and then move on to the [Your First SoapUI Project](#) tutorial.



WSDL / Web Service



Amazon Sample Project

Tutorials

Web Service Sample Projects

SOAP Sample Project

REST Sample Project

Data Driven Testing

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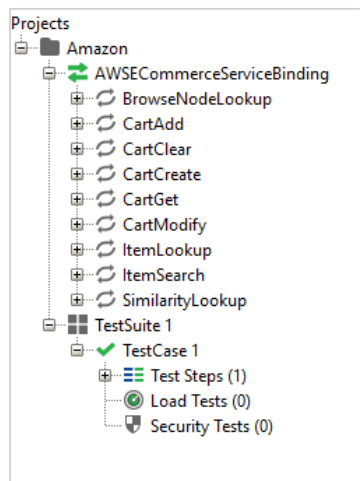
AWS

Google Maps

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The [Amazon API sample project](#) uses SOAP instead of REST – which makes it somewhat easier to understand inside SoapUI since the WSDL (available at <http://webservices.amazon.com/AWSECommerceService/AWSECommerceService.wsdl>) defines all operations and request/response messages for you. The sample projects TestCase only contains one TestStep since Amazon is somewhat restrictive in allowing their APIs being used for demonstration purposes.

The project looks as follows:





WSDL: Laboratório I

Laboratório WSDL / Implementação

- Entender os dois WSDLs disponíveis nos exemplos do SoapUI:
 - SOAP Sample Project;
 - AWS.
- Executar os dois tutorias acima.
- Criar uma das duas opções abaixo:
 - Implementar o exemplo SOAP Sample Project por completo (serviços e cliente SOA); ou
 - Implementar um Cliente SOA para consumir os serviços AWS.
- Equipe de três alunos.
- Data da entrega: 23 de agosto.
- Postar fontes e um vídeo da execução do cliente (gravar desktop).



Laboratório I: Tutoriais Instalação

WINDOWS 10

<https://crunchify.com/create-and-deploy-simple-web-service-and-web-service-client-in-eclipse/>

<https://crunchify.com/step-by-step-guide-to-setup-and-install-apache-tomcat-server-in-eclipse-development-environment-ide/>

Opção alternativa:

<https://www.devmedia.com.br/instalacao-e-configuracao-do-apache-tomcat-no-eclipse/27360>

UBUNTU:

<https://www.digitalocean.com/community/tutorials/install-tomcat-9-ubuntu-1804>

<https://stackoverflow.com/questions/45679433/setting-up-tomcat-in-eclipse-on-ubuntu>

Opção alternativa:

<https://www.javahelps.com/2015/03/install-apache-tomcat-on-ubuntu.html>



Laboratório I: Tutorial Web Service

WINDOWS 10 e LINUX:

<https://crunchify.com/create-and-deploy-simple-web-service-and-web-service-client-in-eclipse/>

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