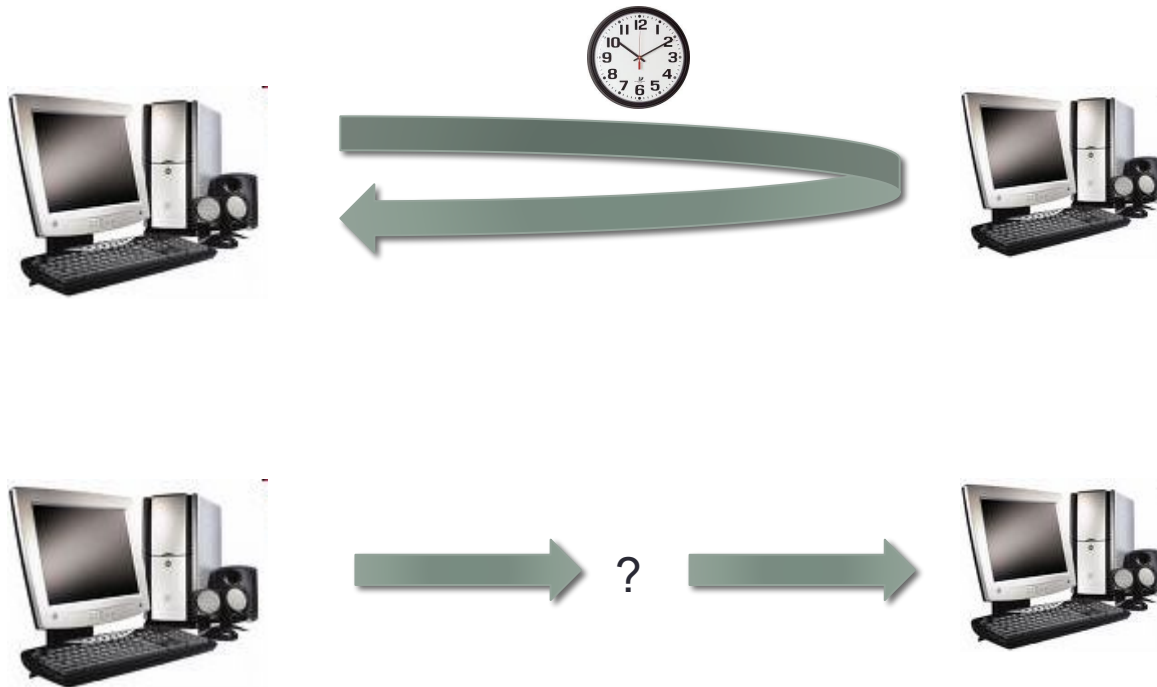


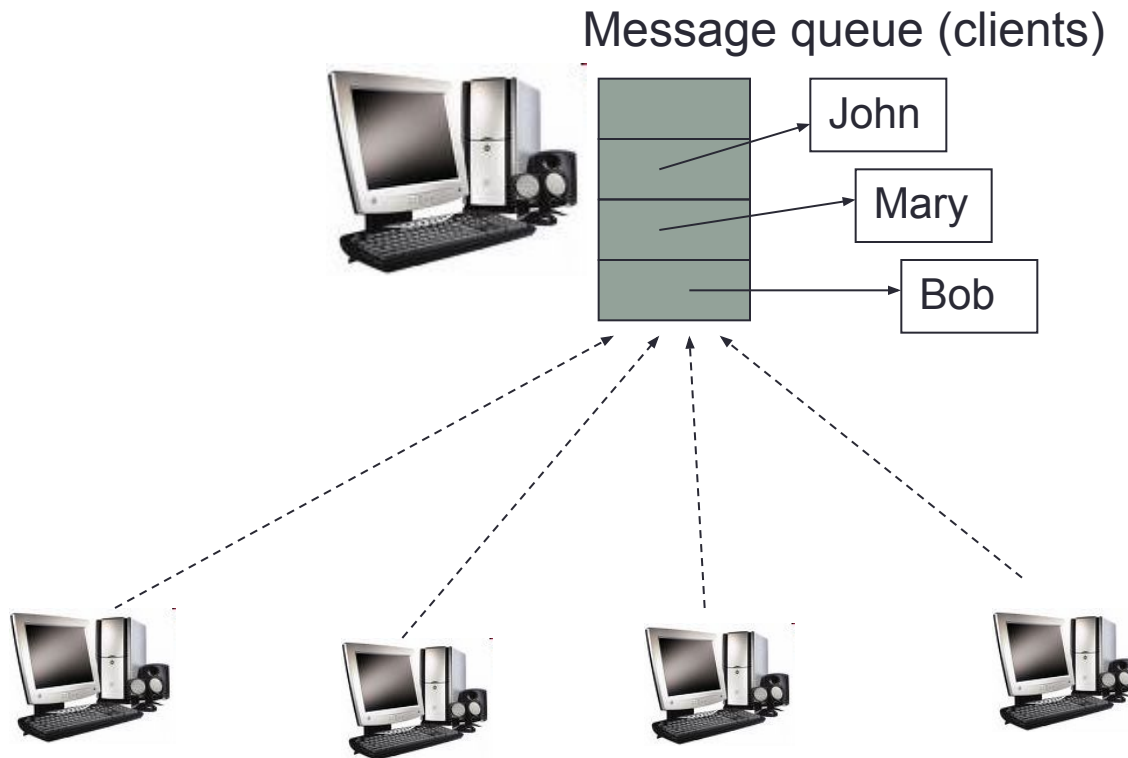
Estilos arquitectónicos basados en eventos

Synchronous P2P vs Event-based P2P



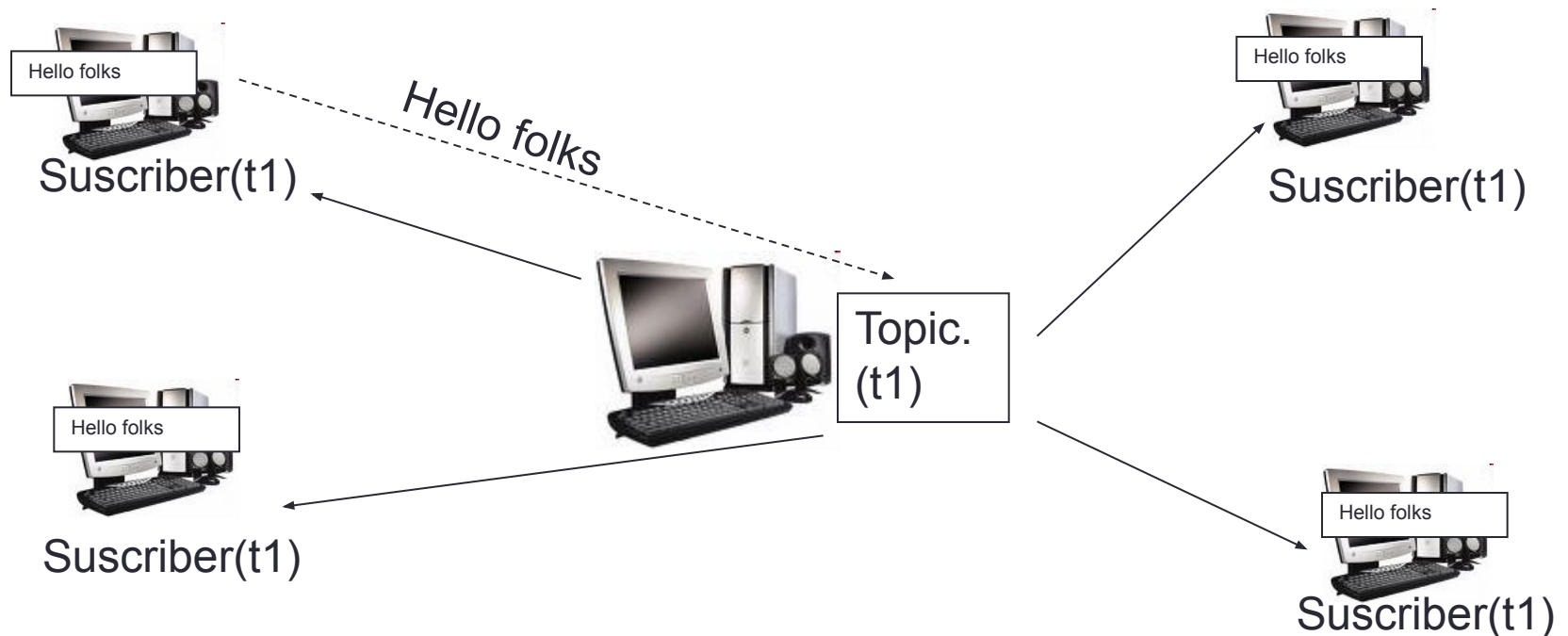
Point to point.

- Example: fighting for a task!

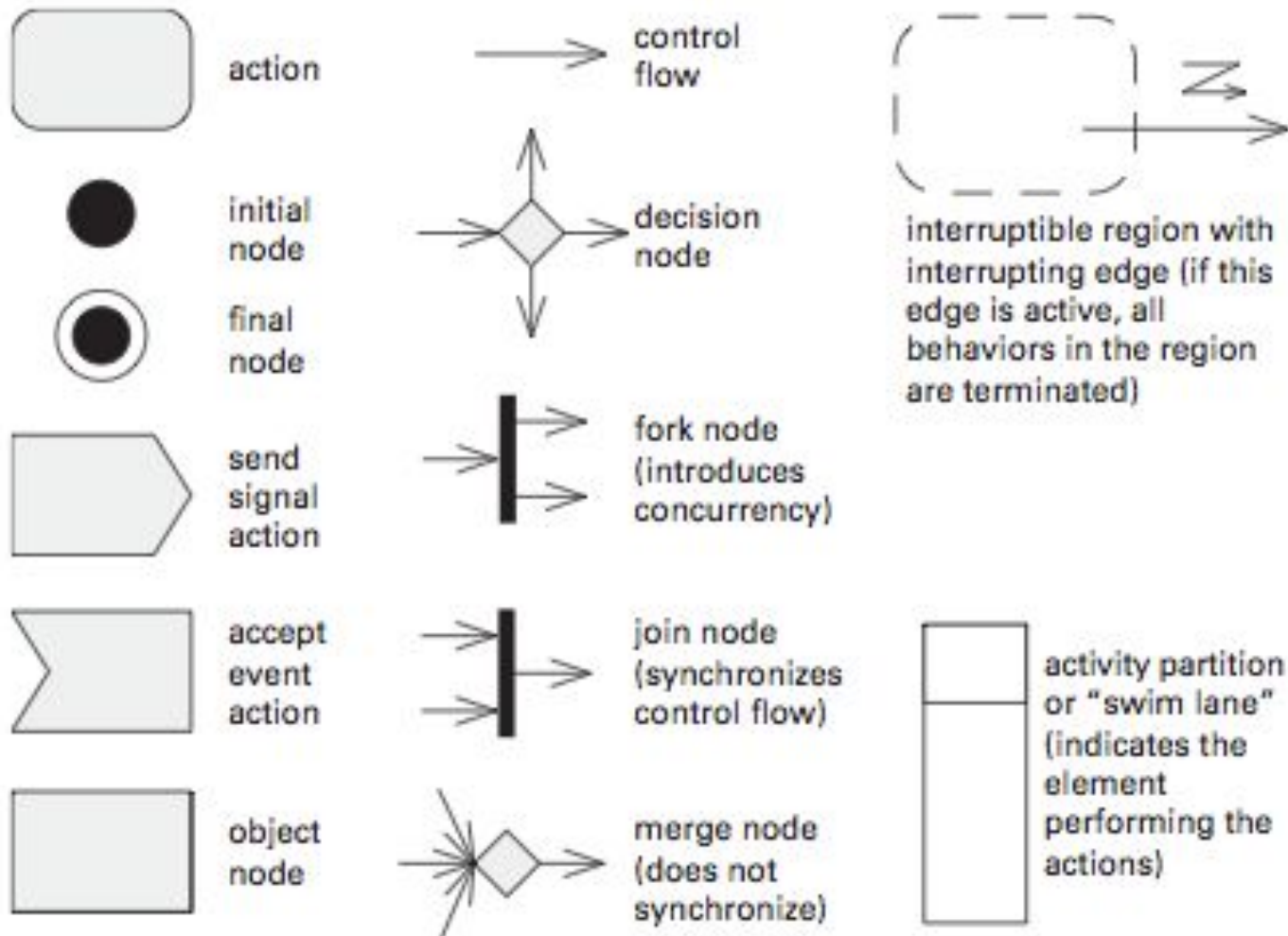


Publisher / Subscriber

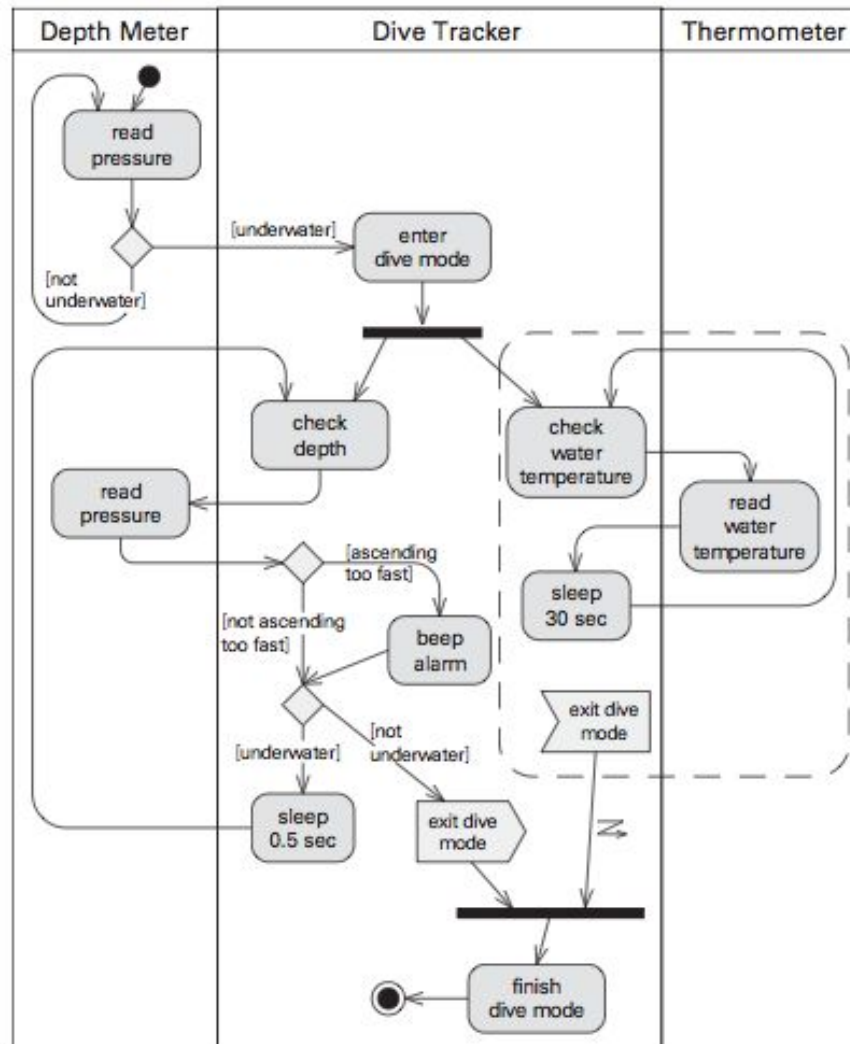
- Example: 2 LOC Simple broadcast chat.



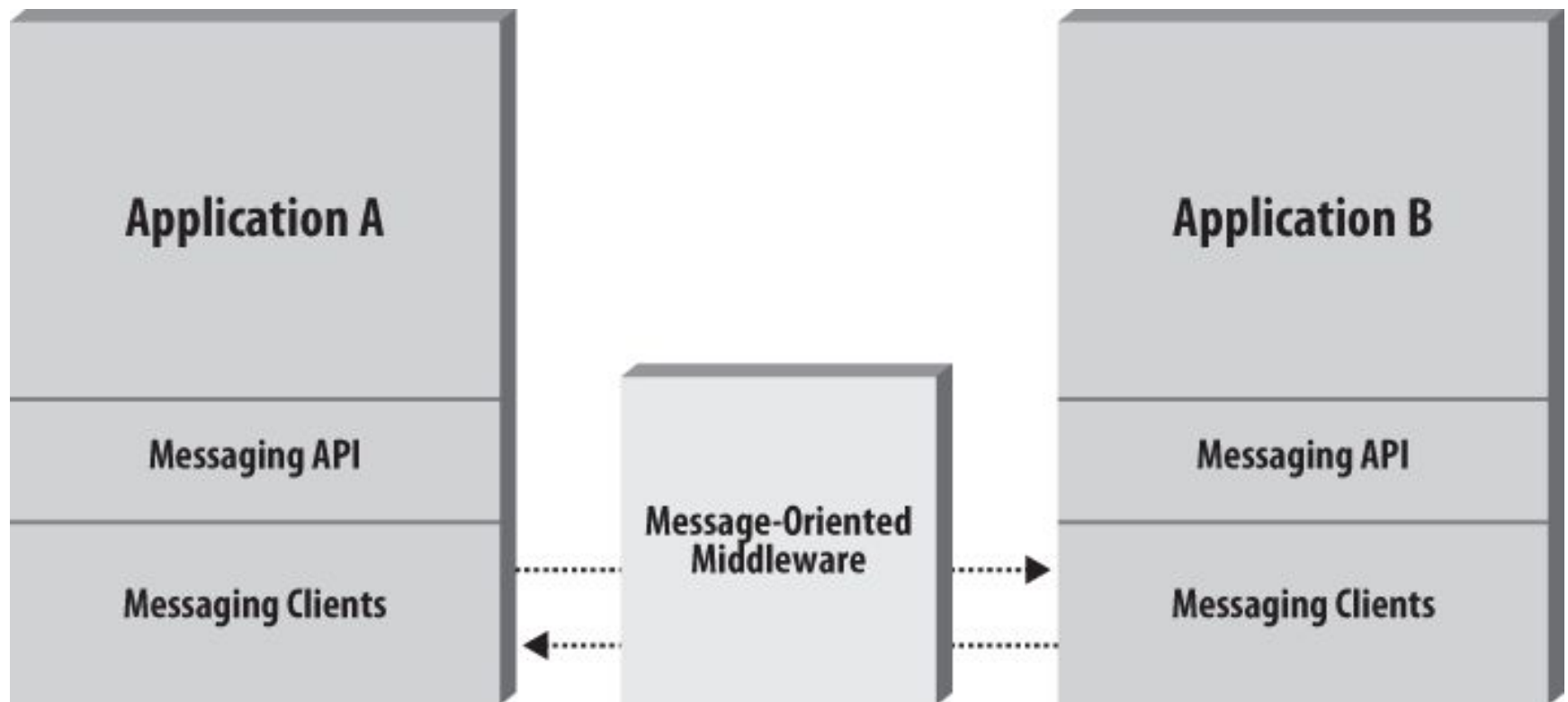
Documentación de arquitecturas: comportamiento dinámico.



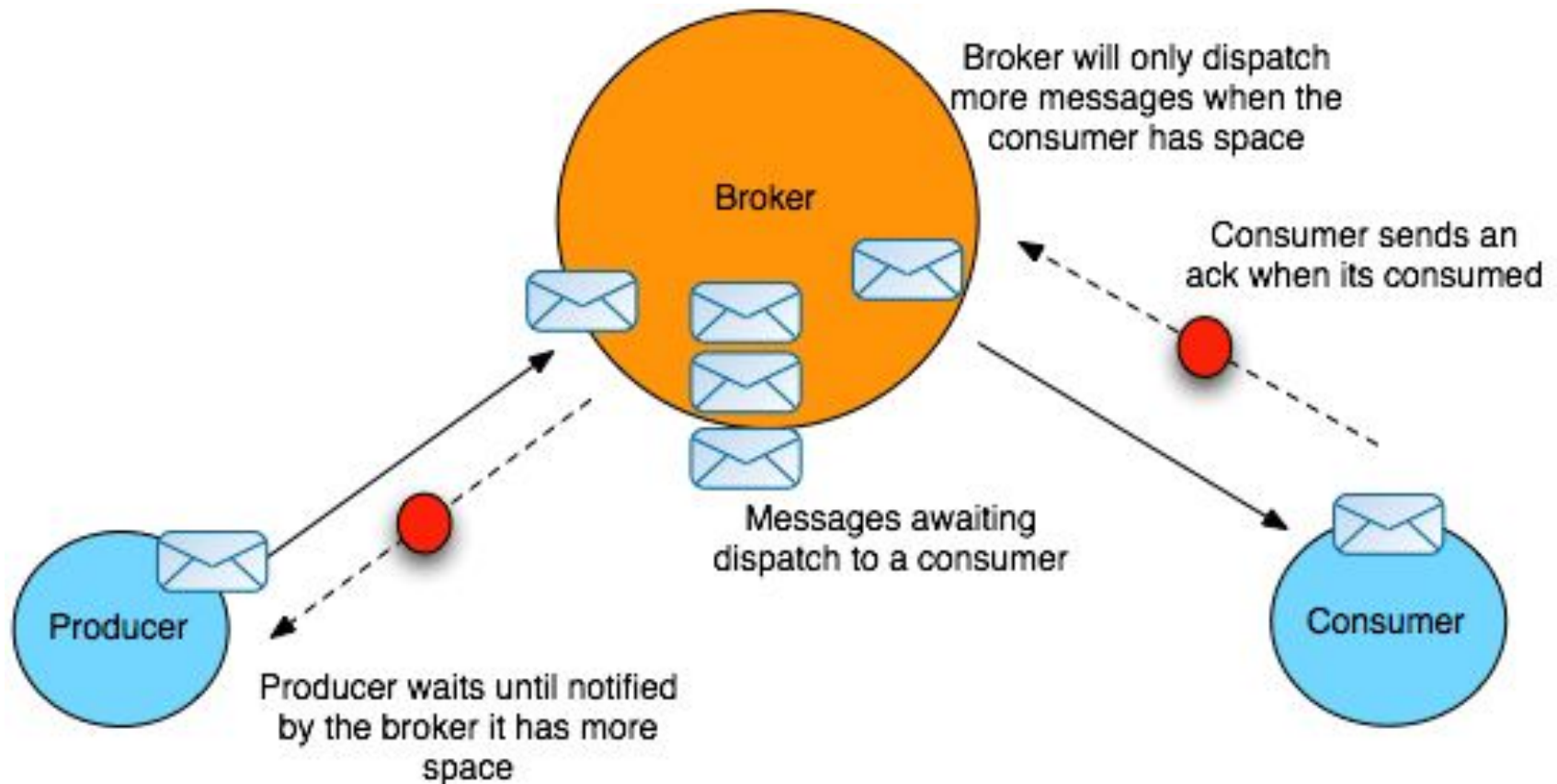
Diagramas de actividad



Message-oriented middleware



Message Brokers

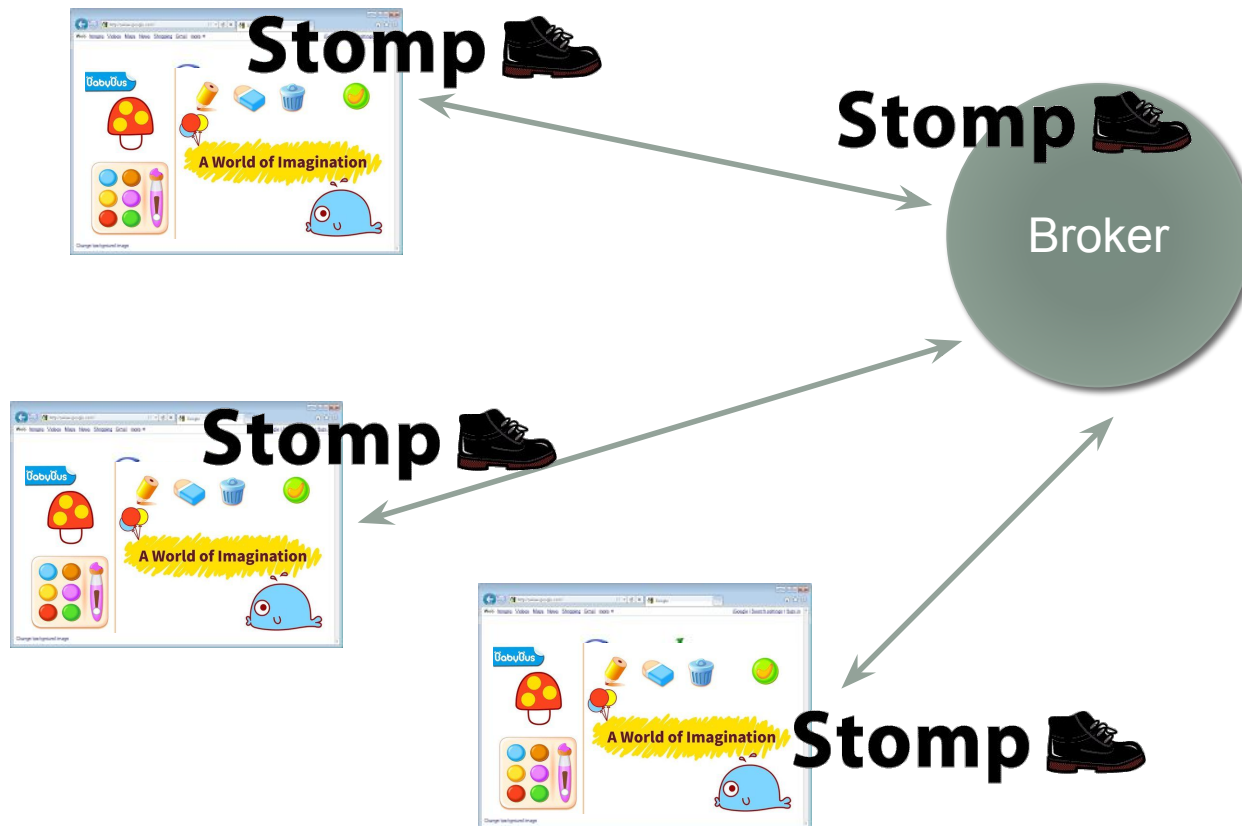


Protocolos/plataformas de mensajería

Stomp



Protocolos/plataformas de mensajería – Compatibilidad con clientes Web



Stomp

The Simple Text Oriented Messaging Protocol

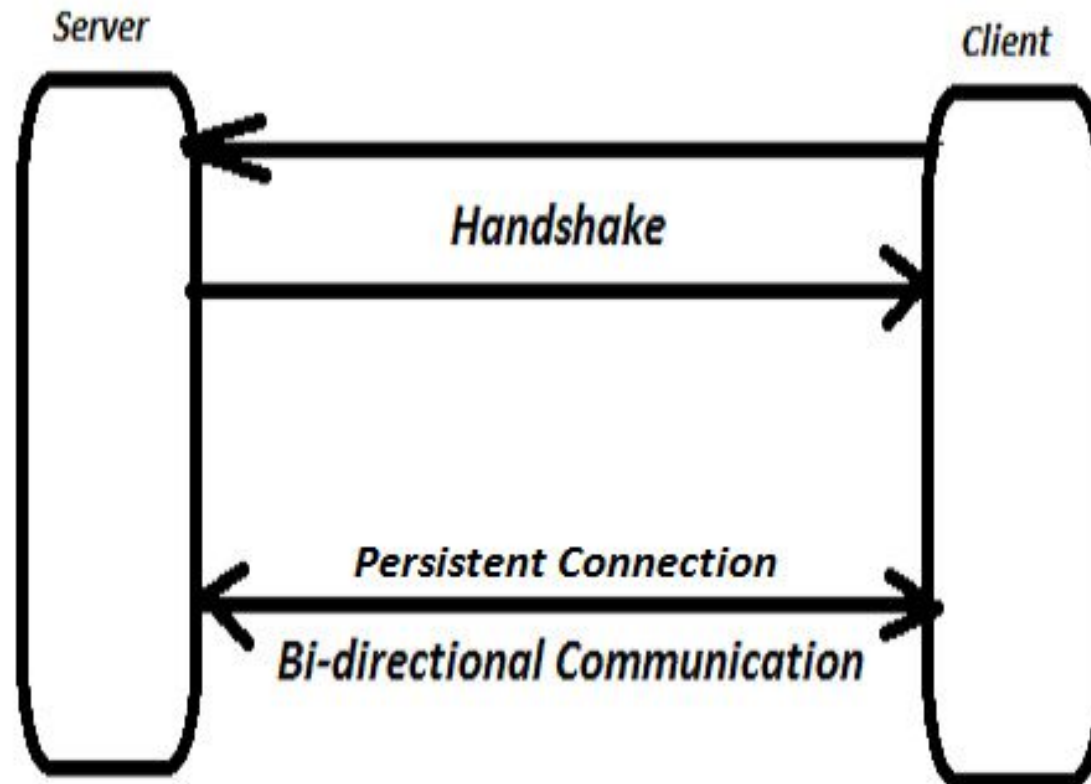
STOMP Servers
STOMP Clients

STOMP Servers

Here are the known STOMP compliant message servers:

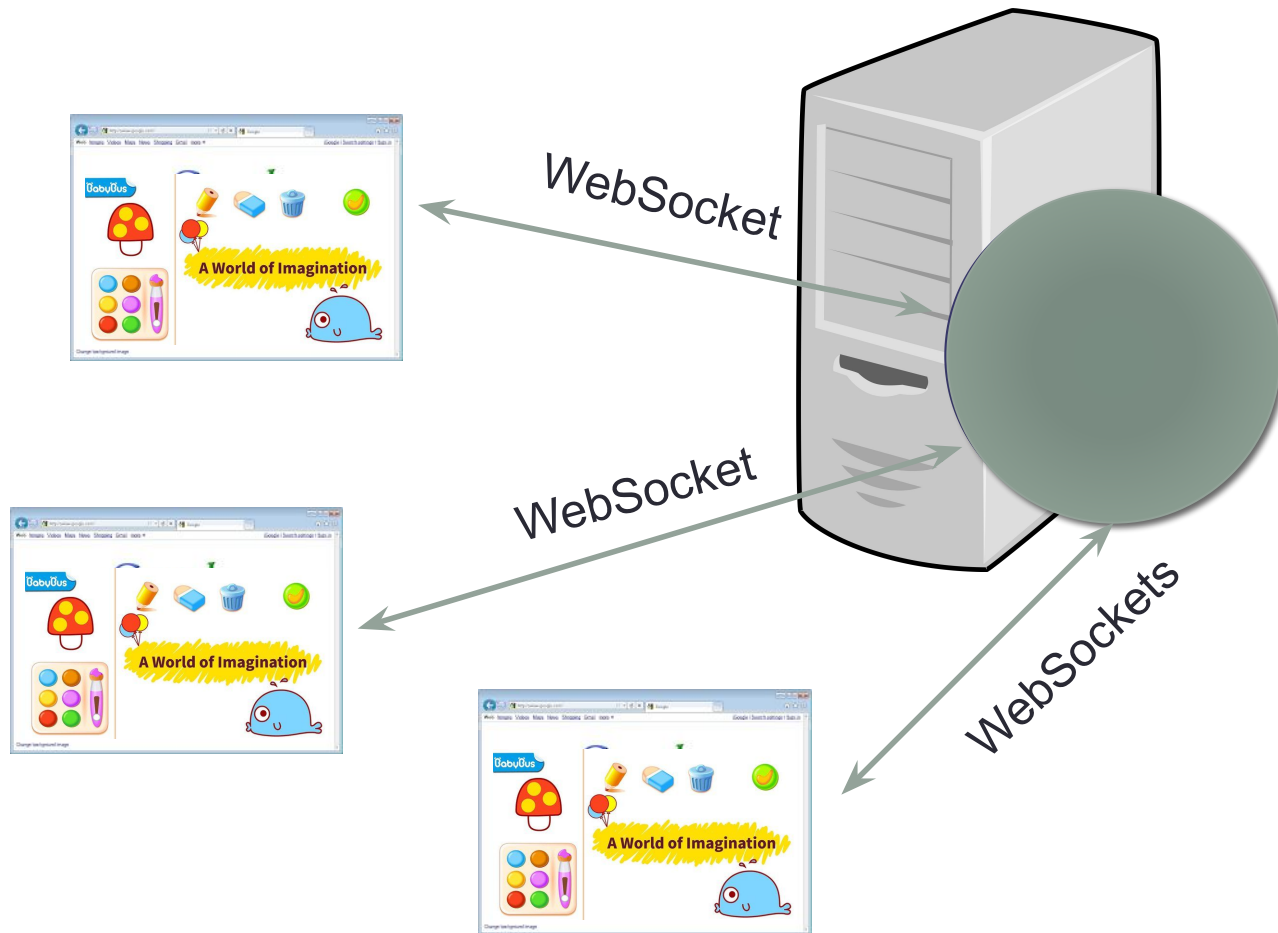
Name	Description	Compliance
Apache ActiveMQ	the most popular and powerful open source messaging and Integration Patterns server	1.0 1.1
Apache ActiveMQ Artemis	Apache ActiveMQ Artemis has a proven non blocking architecture. It delivers outstanding performance.	1.0 1.1 1.2
Apache Apollo	a redesigned version of ActiveMQ	1.0 1.1 1.2
CoilMQ	a lightweight pure Python STOMP broker inspired by StompServer	1.0
Gozorra	a lightweight Java STOMP broker	1.0
HornetQ	puts the buzz in messaging	1.0
MorbidQ	a STOMP publish/subscribe server with absolutely no potential to cluster	1.0
RabbitMQ	an Erlang-based, multi-protocol broker with full support for STOMP via a plugin	1.0 1.1 1.2
Sprinkle	written in Python and runs on Unix type platforms	1.0
Stampy	a Java implementation of the STOMP 1.2 specification	1.2
StompConnect	provides a bridge to any other JMS provider	1.0
StompServer	a lightweight pure Ruby STOMP server	1.0

WebSockets



WebSockets

Protocolos/plataformas de mensajería – Compatibilidad con clientes Web



STOMP/WS vs REST

StompWS

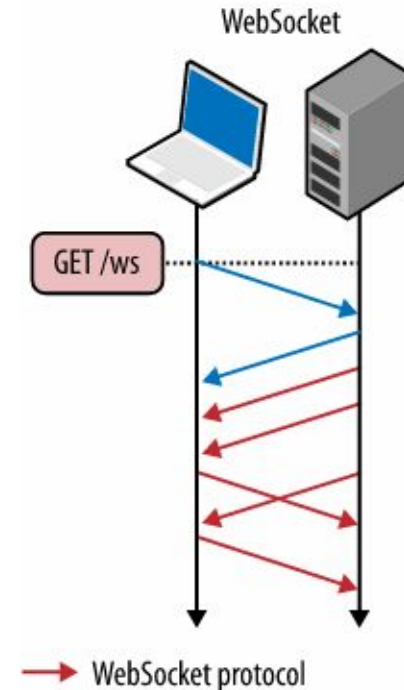
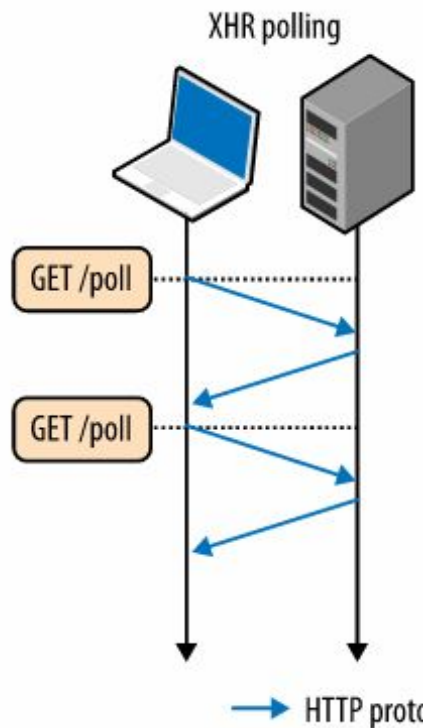
- Persistent Connection.
- Bi-directional communications.
- Not HTTP! (TCP channel)

REST

- Stateless Uni-directional communications.
- HTTP Based protocol.

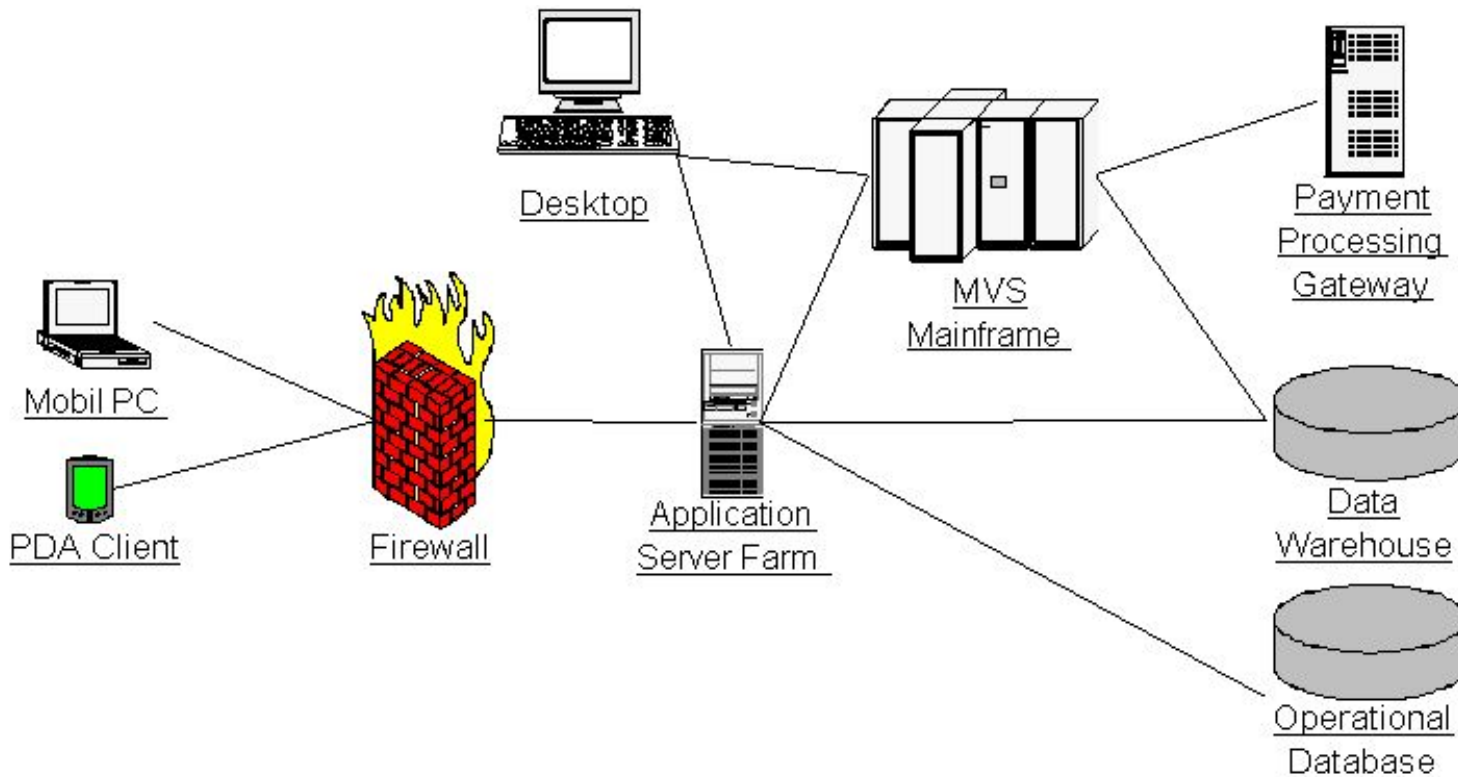
STOMP/WS vs REST

- STOMP/WS
 - High-frequency, Low latency communications.



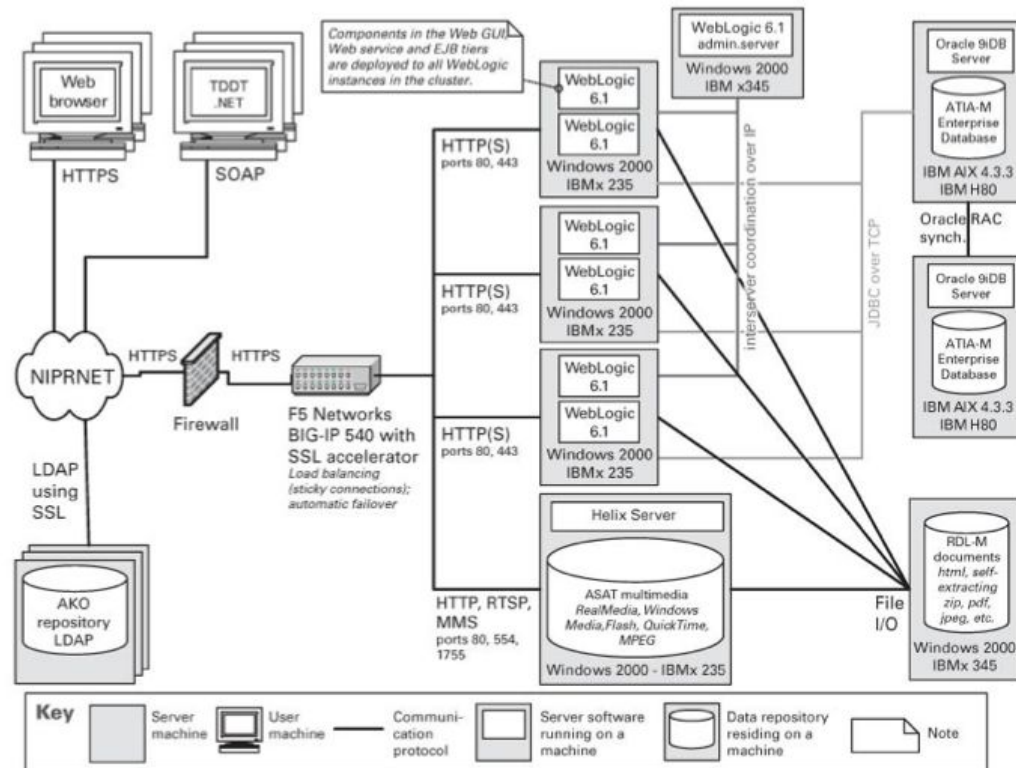
Documentación de arquitecturas: despliegue

- Vistas informales



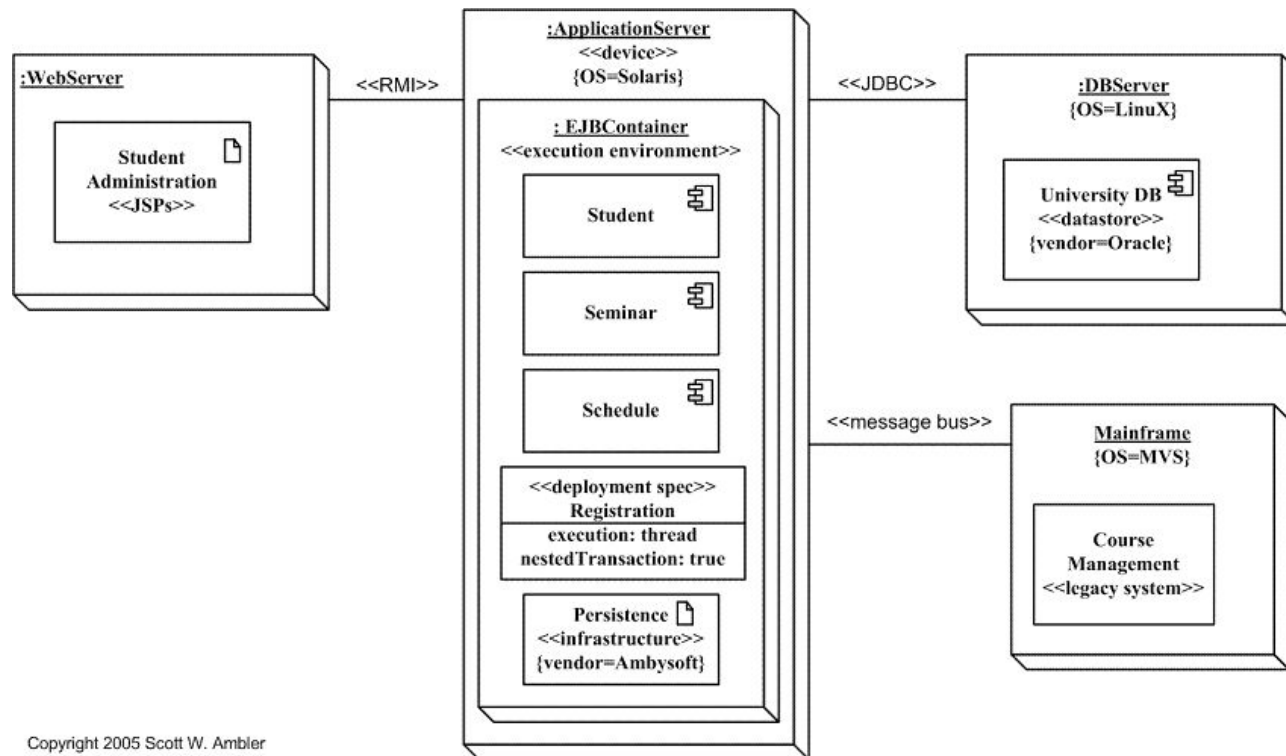
Documentación de arquitecturas: despliegue

- Vistas informales



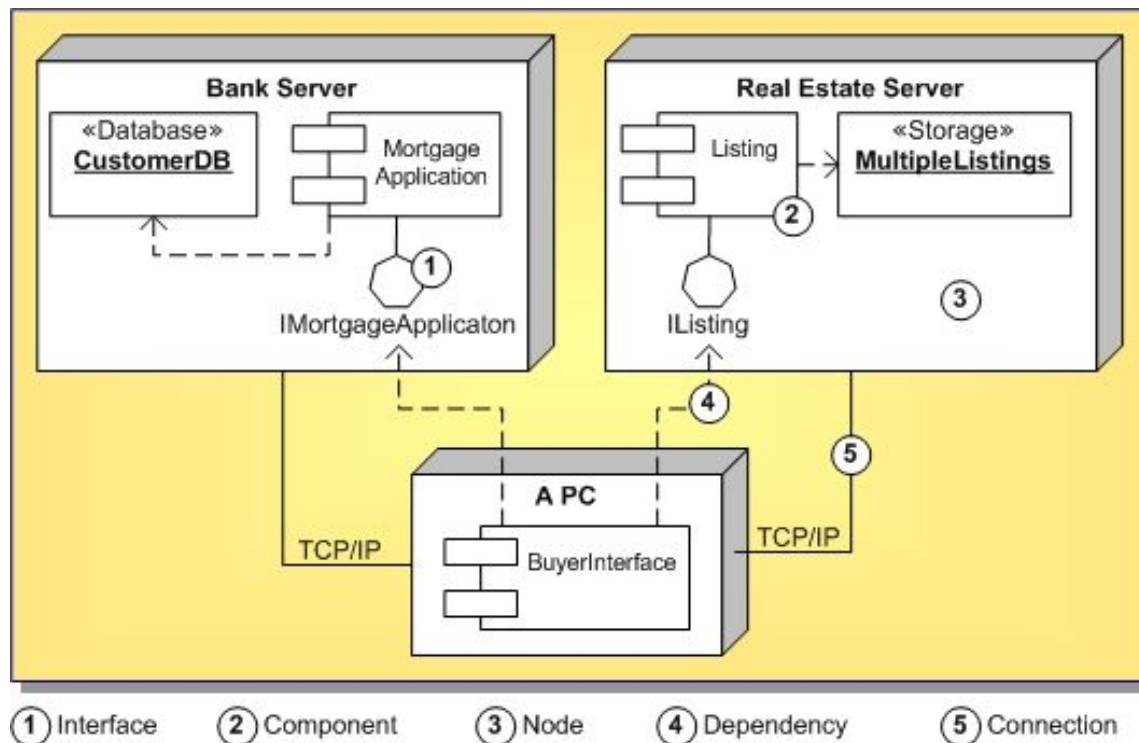
Documentación de arquitecturas: despliegue

- UML – Diagrama de despliegue (deployment)



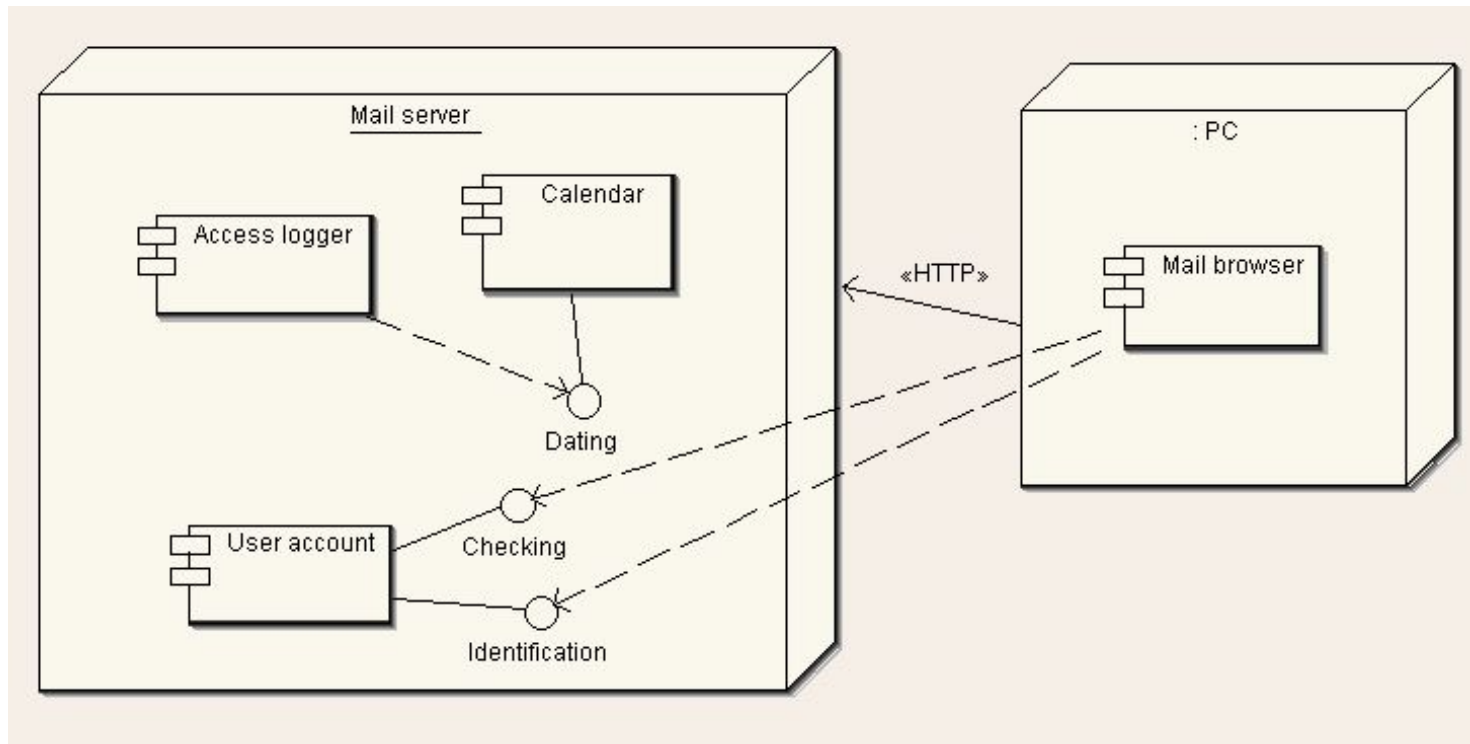
Documentación de arquitecturas: despliegue

- UML - Diagrama de despliegue (deployment)

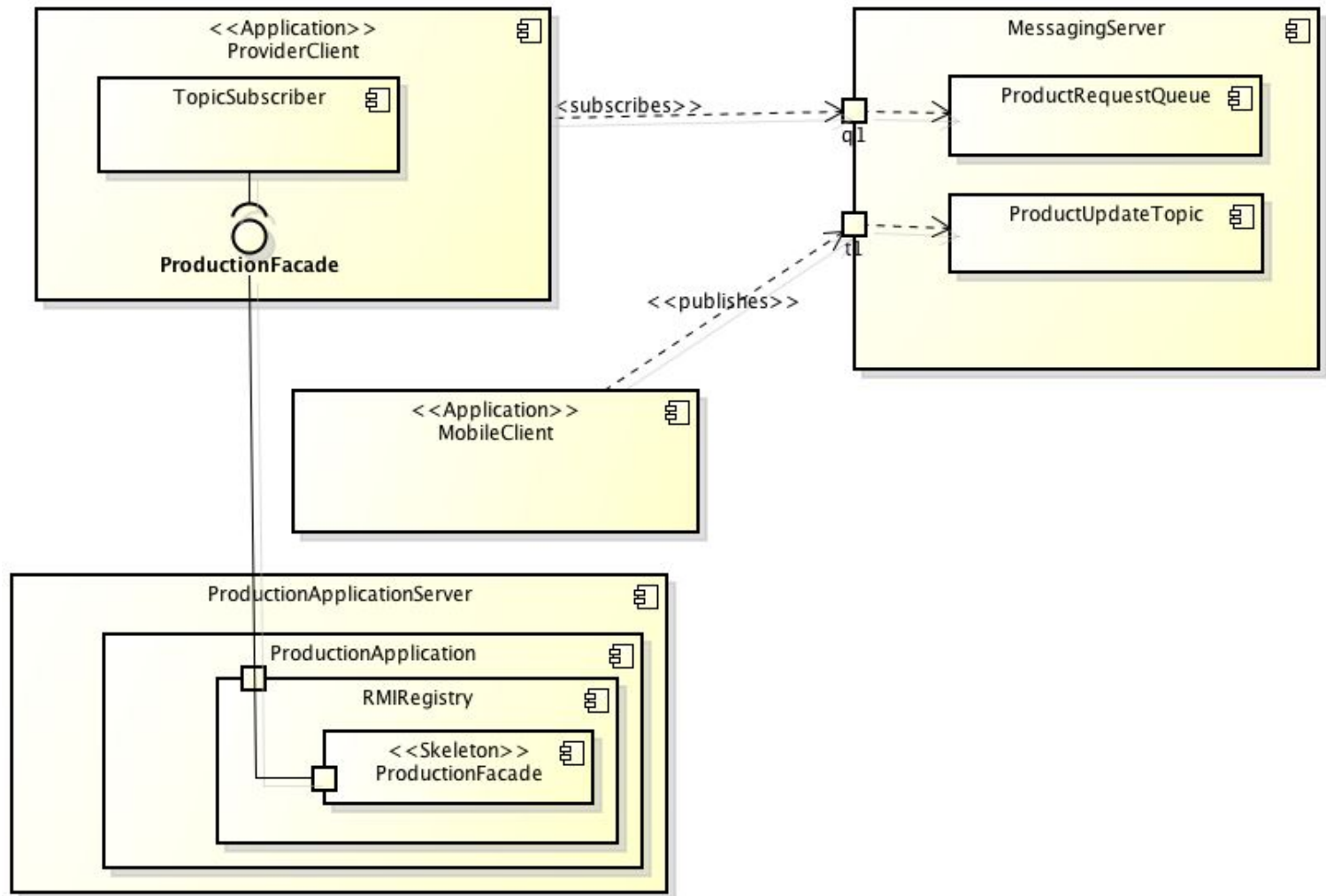


Documentación de arquitecturas: despliegue

- UML - Diagrama de despliegue (deployment)



Vistas estáticas (componentes)



Messaging Domains

- Point-to-Point (PTP)
 - built around the concept of message queues
 - each message has only one consumer
- Publish-Subscribe systems
 - uses a “topic” to send and receive messages
 - each message has multiple consumers

References

- Some images and text extracted from www.rgoarchitects.com/Files/ooprimer.ppt

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- Gamma, et al, Design Patterns, <http://hillside.net/patterns/DPBook/DPBook.html>

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- Oberg, Rickard, Dependency injection and open vs. closed designs, http://jroller.com/page/rickard/20040814#dependency_injection_and_open_vs
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- Cazullino, Daniel, Lightweight Containers and Plugin Architectures: Dependency Injection and Dynamic Service Locators in .NET, <http://weblogs.asp.net/cazzu/archive/2004/05/10/129140.aspx>
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- Mathew, Sony, Examining the Validity of Inversion of Control, <http://stage.theserverside.com/articles/article.tss?l=IOCandEJB>

Software Projects

- Spring, <http://www.springframework.org/>
- Pico, <http://www.picocontainer.org/>
- Hivemind, <http://jakarta.apache.org/hivemind/>
- Needle for Ruby, <http://needle.rubyforge.org/>