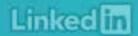
IDE Introduction





https://www.jetbrains.com/idea





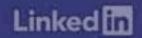






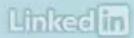
Cargo Tracker Demo Application

- cargotracker.java.net
- Getting started instructions
- NetBeans setup instructions
- Domain-driven design
- Maven project





Server Products











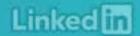








Server Products











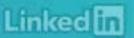








Server Introduction



Batch	Dependency Injection	JACC	JAXR	JSTL	Management
Bean Validation	Deployment	JASPIC	JMS	JTA	Servlet
CDI	EJB	JAX-RPC	JSF	JPA	Web Services
Common Annotations	EL	JAX-RS	JSON-P	JavaMail	Web Services Metadata
Concurrency EE	Interceptors	JAX-WS	JSP	Managed Beans	WebSocket
Connector	JSP Debugging	JAXB			

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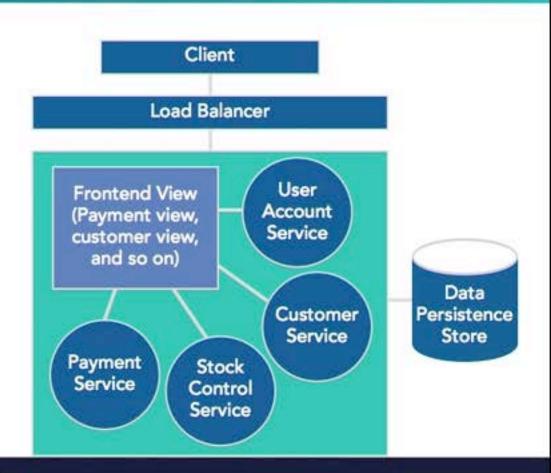
Monolithic architecture

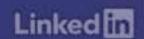
Most common

Benefits

Simple, only one app to test

IDE designed for monoliths

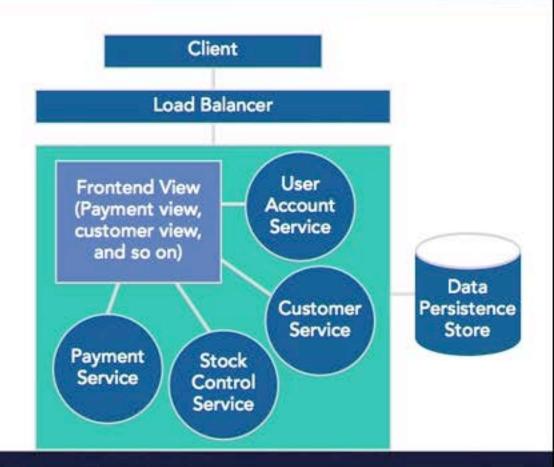


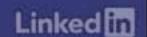


Drawbacks

Steep learning curve for joiners

Stuck with tech choices





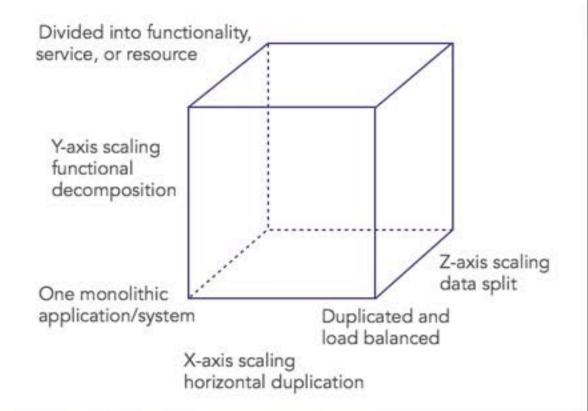
Scalability

Flex with demand

X-axis scaling

Improved capacity/availability

Increased hosting costs





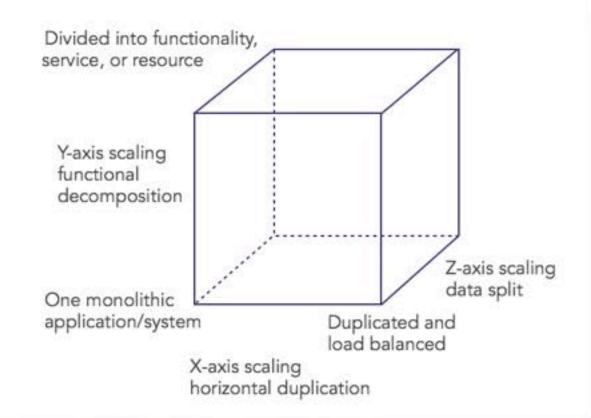
Z-axis scaling

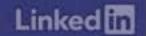
Duplicate code

Data is split

Y-axis

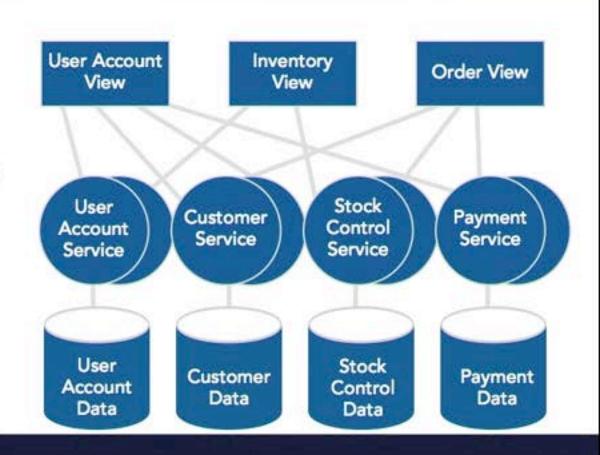
Decompose into services

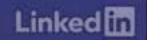




Microservice Architecture

- Decomposing into services
- Duplicated on several servers
- Data can be shared
- Frontend applications





Typical Application Architecture

