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# Resilient Software Design

## Pt 2: Application

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## Overview

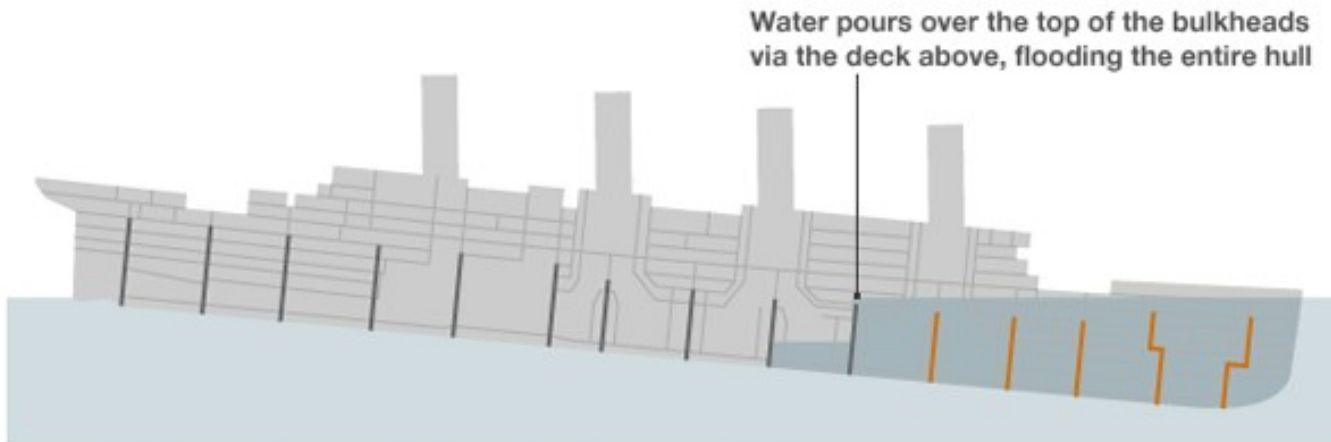
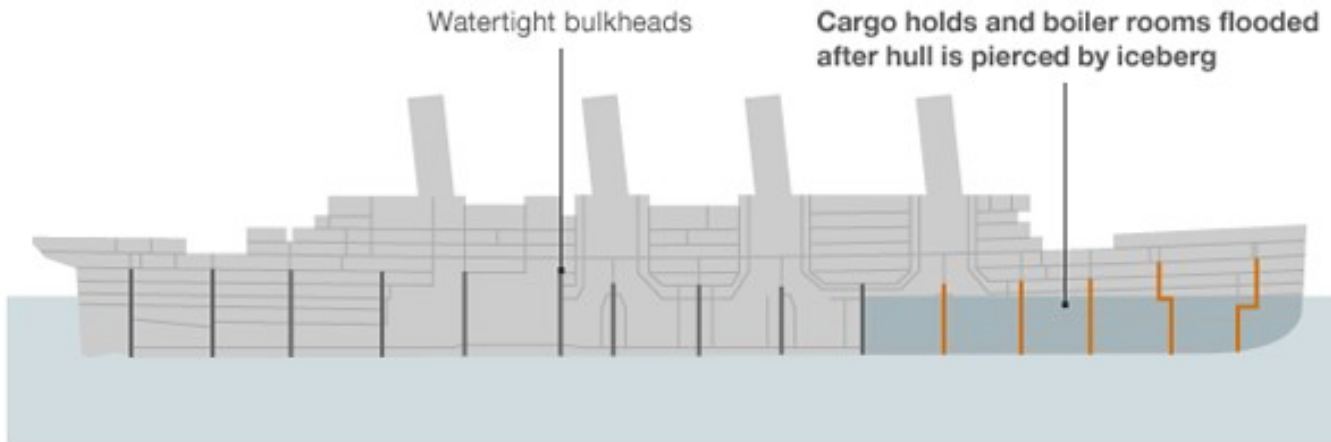
- Errors are not always avoidable
- Resilient Software tries to react as fast as possible to a given state of failure

- Core Concepts of resilient SW design
  - Bulkheads
  - Redundancy
  - Loose Coupling
  - Fallbacks
  - Scalability
  - DevOps

# IT Concepts

- Bulkheads

## RMS Titanic - key design fault



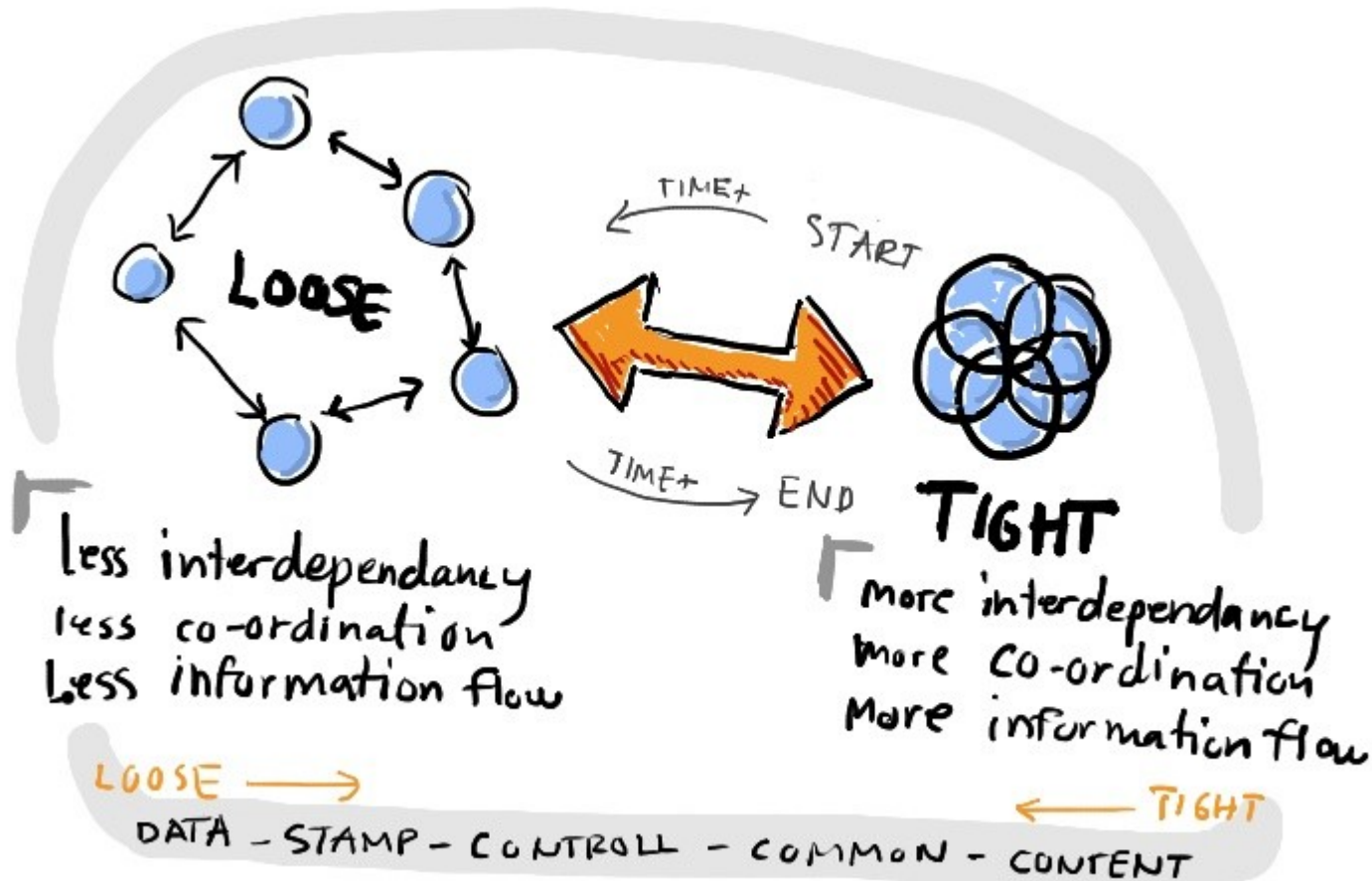
Source: D. Foerster, Report on the Loss of the Steamship Titanic

- Redundancy



# IT Concepts

- Loose Coupling

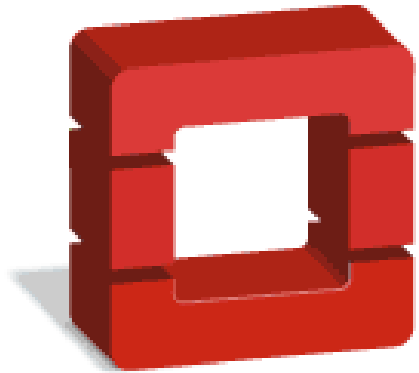


- Fallbacks





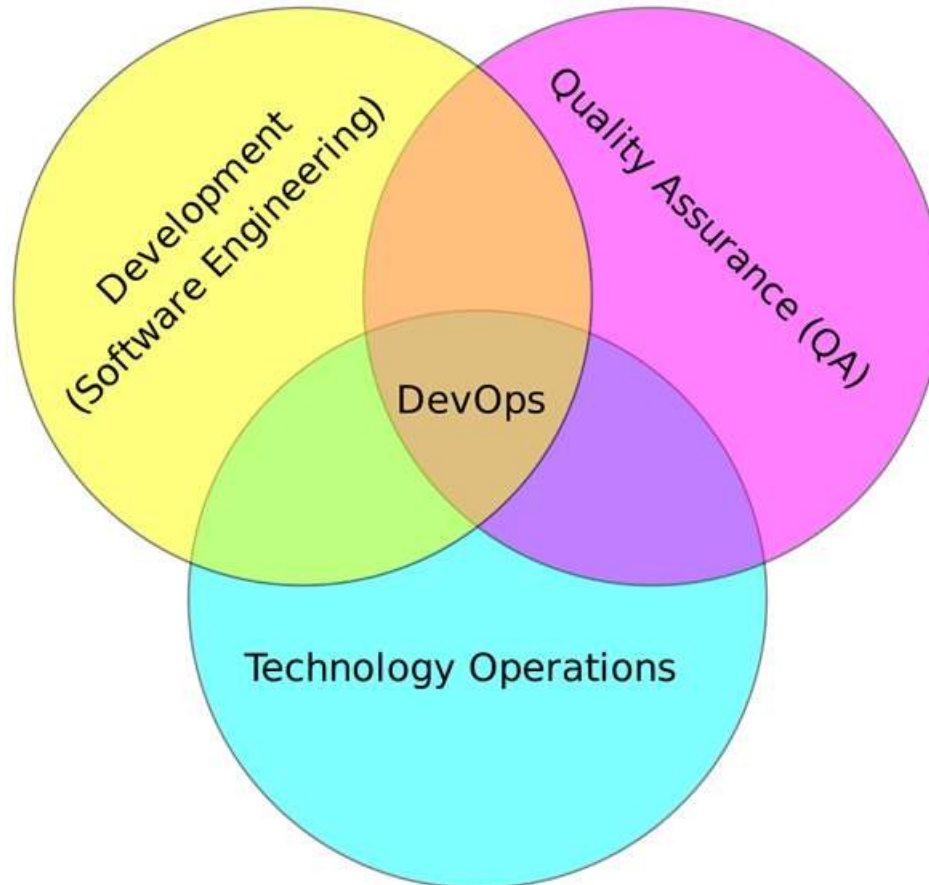
- Scalability



openstack™  
CLOUD SOFTWARE

# IT Concepts

- DevOps



Thank you for  
your attention!



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