Load balancing in ESB based service platform

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Agenda

• Introduction
• Research Question
• Different techniques
• Load balancing
• Design
• Conclusion
Introduction

• GEANT
• ESB
• IaaS, PaaS, SaaS
Investigate the issues with the real time services operation and synchronization with the existing/proposed load balancing techniques.
Different techniques

• Network Connections
• Subscriptions
• Filtering
  – Queue & topic
• Discovery Mechanisms
  – Agents
  – Dynamic discovery protocol
  – Fanout
Single connection

Duplex connector

Conduit subscriptions

Full graph with discovery

Load balancing

• Propagation
• Balancing consumer load
• Managing producer load
• Filtering
• Topology
Design
Conclusion

• Dynamic load balancing

• Topology

• Configuration
Questions