

MASARYK UNIVERSITY  
FACULTY OF INFORMATICS



# **Use of Transactions within a Reactive Microservices Environment**

MASTER'S THESIS

**Martin Štefanko**

Brno, Fall 2017

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## **Declaration**

Hereby I declare that this paper is my original authorial work, which I have worked out on my own. All sources, references, and literature used or excerpted during elaboration of this work are properly cited and listed in complete reference to the due source.

Martin Štefanko

**Advisor:** Bruno Rossi, PhD

# Acknowledgement

thanks

# Abstract

abstract

## Keywords

transactions, Narayana, JTA, reactive, microservices, asynchronous, saga

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# 1 Introduction

## **2 Distributed transaction management**

### **2.1 JTS**

### **2.2 Saga pattern**

## **3 Communication forms**

### **3.1 CQRS**

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[1]

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## Bibliography

- [1] B. Snyder, D. Bosnanac, and R. Davies, *ActiveMQ in action*. Manning, 2011.