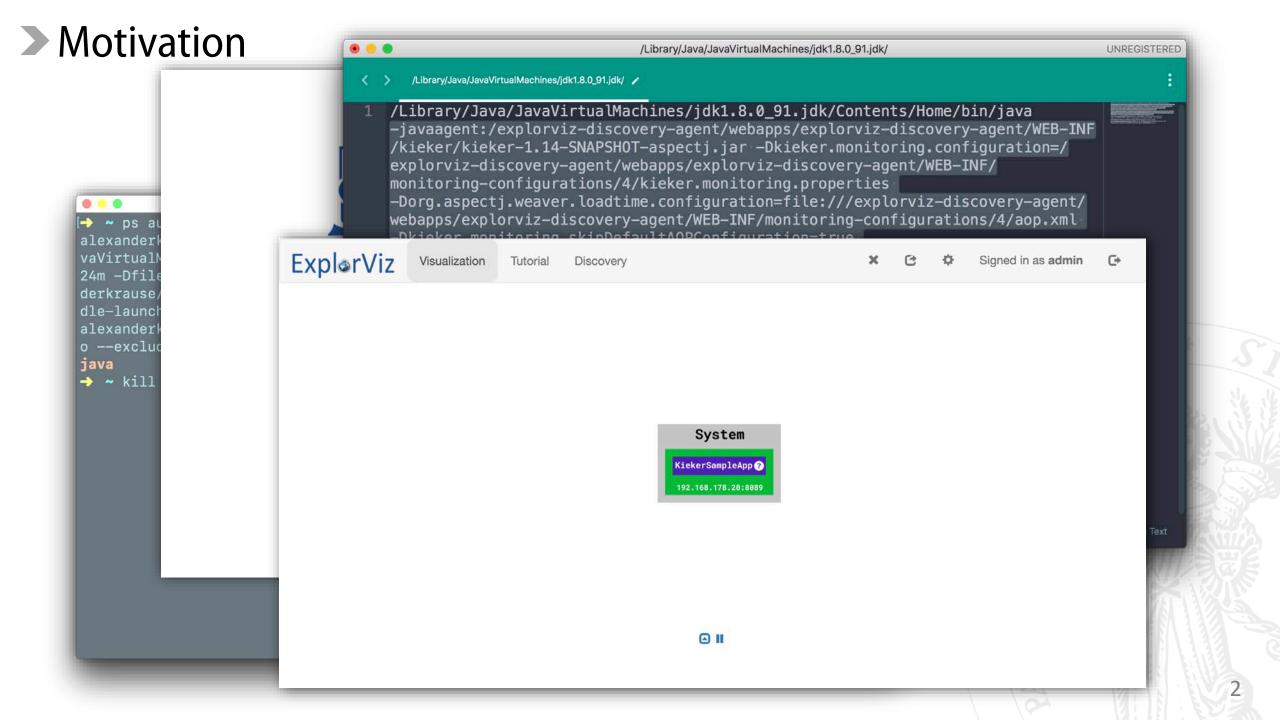
# Enterprise Application Discovery and Monitoring Management with ExplorViz

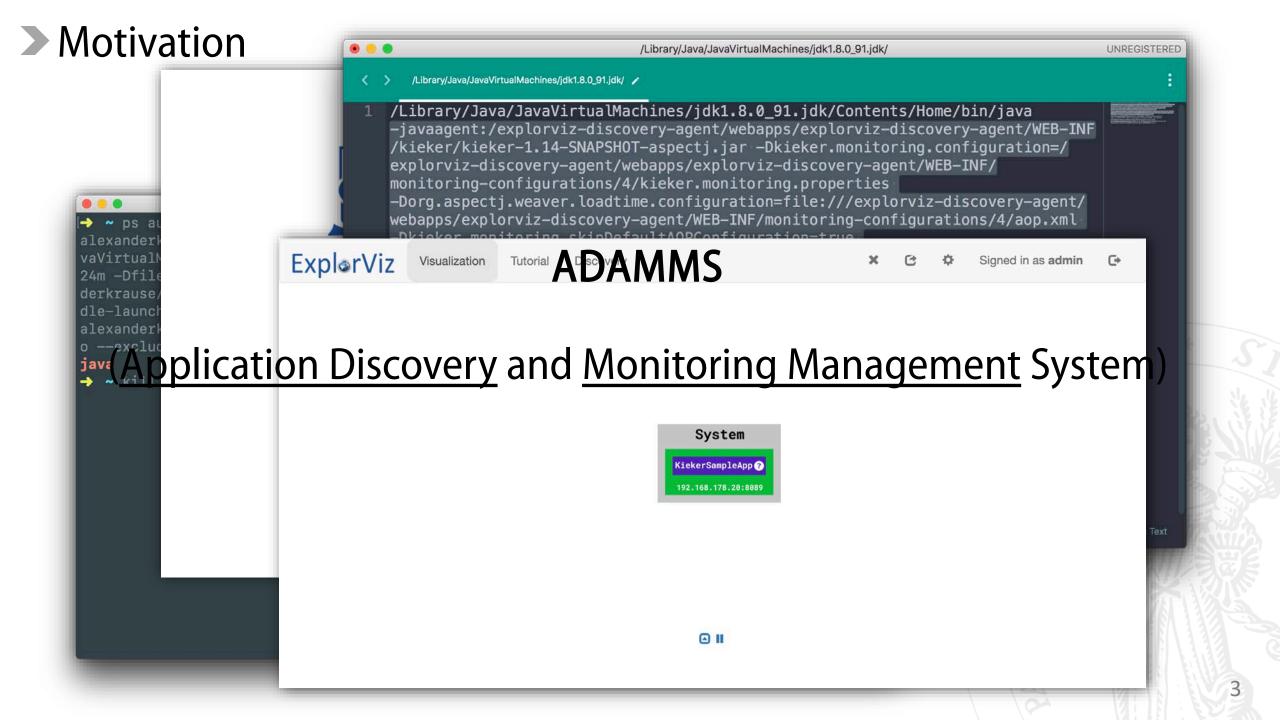
Master's Thesis Presentation

March 21, 2018

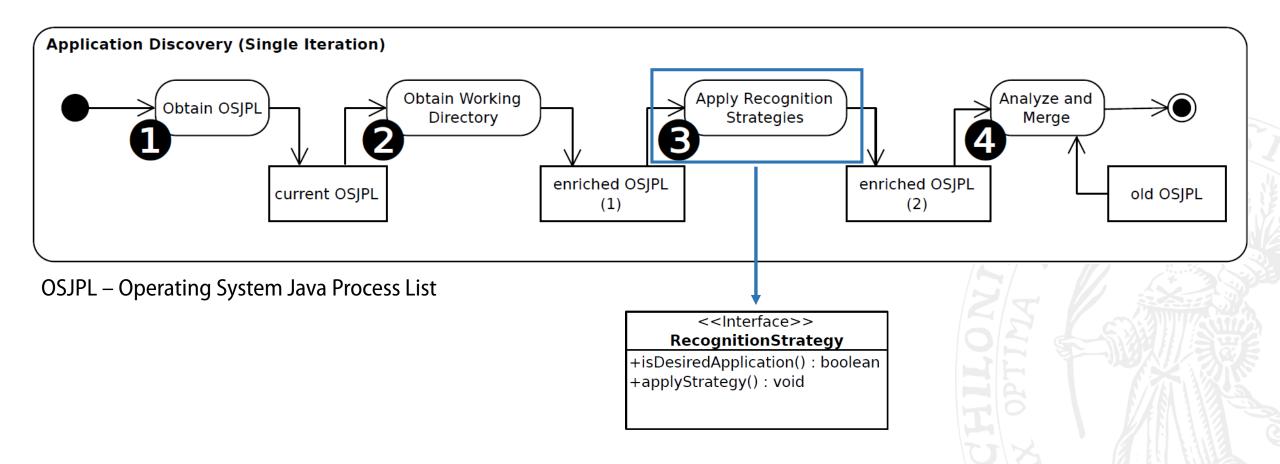
Alexander Krause – Kiel University



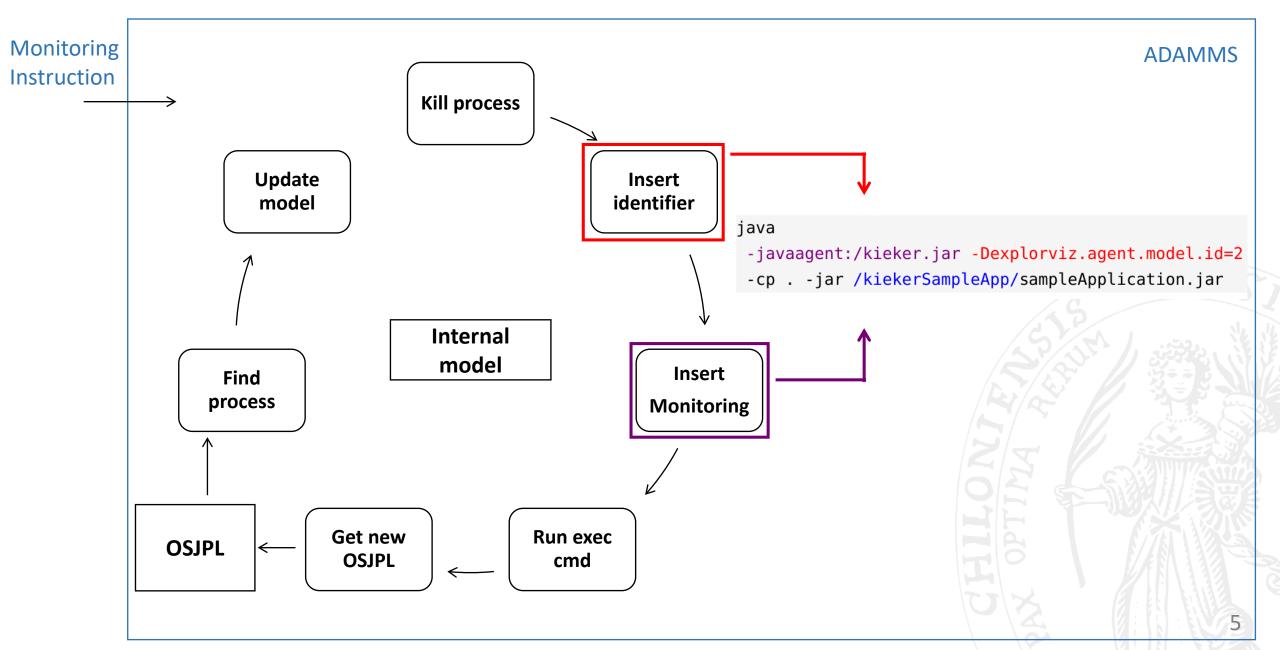




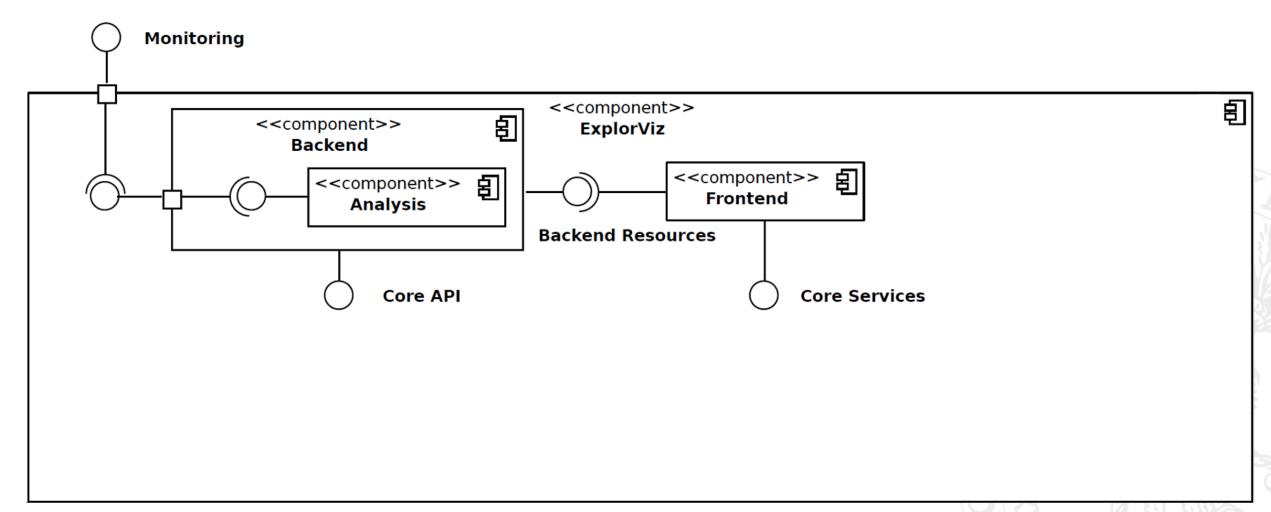
## Design – Application Discovery



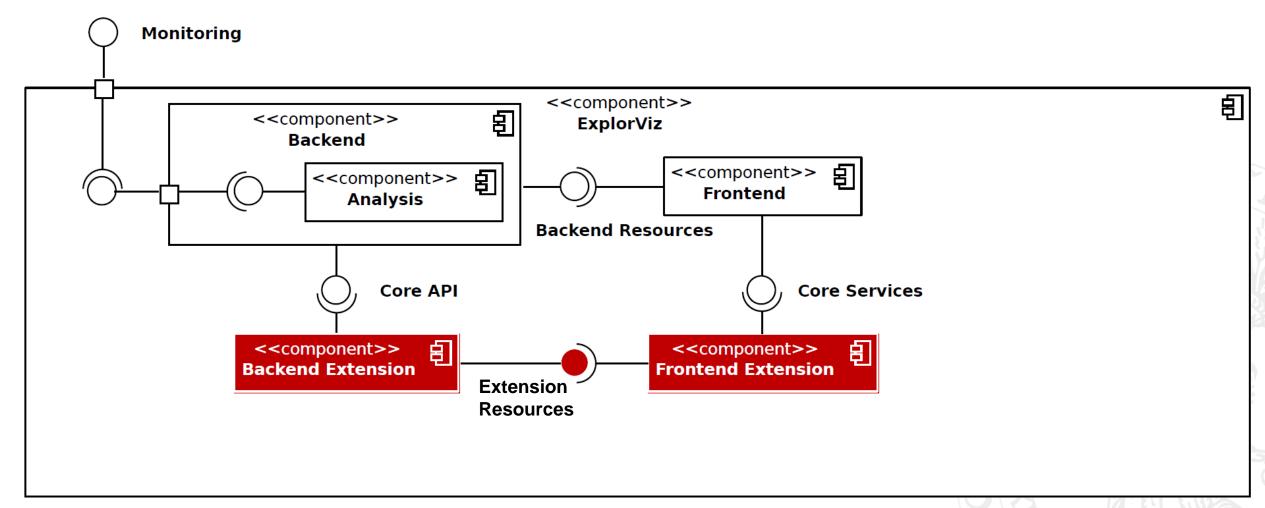
# Design – Monitoring Management



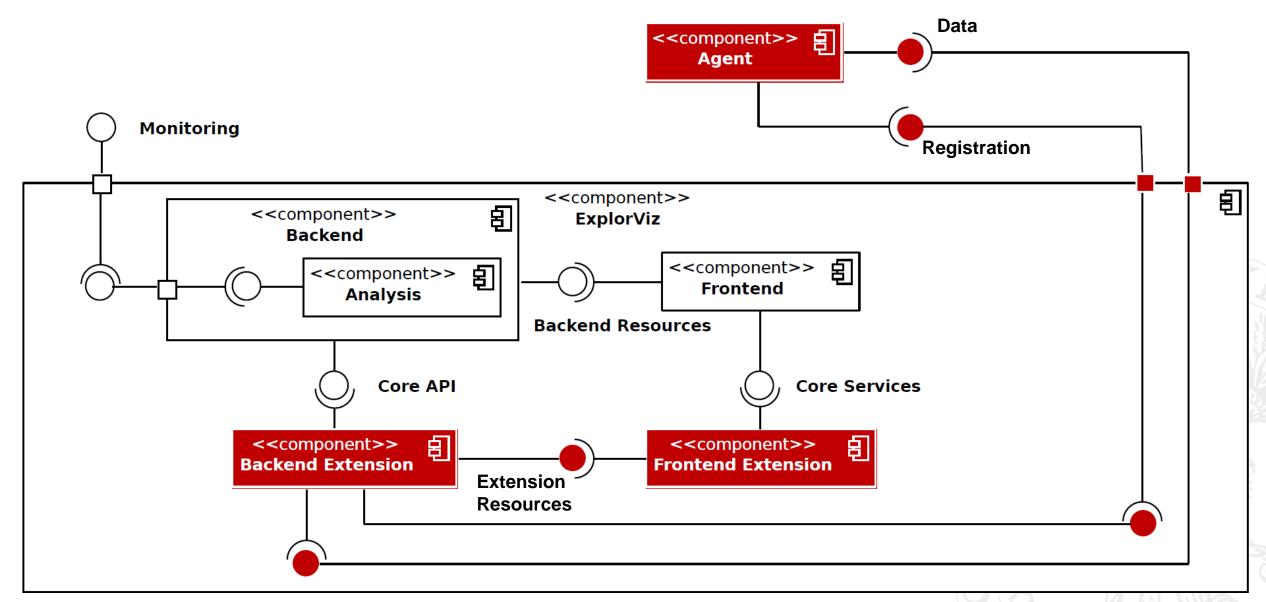
# ➤ Architecture – Component Design



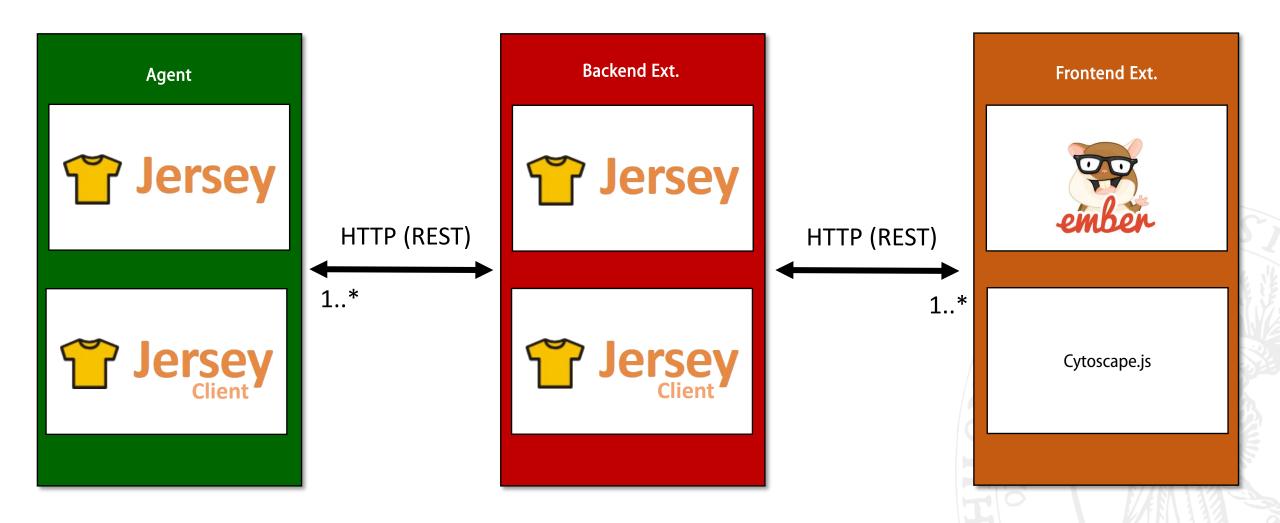
# ➤ Architecture – Component Design



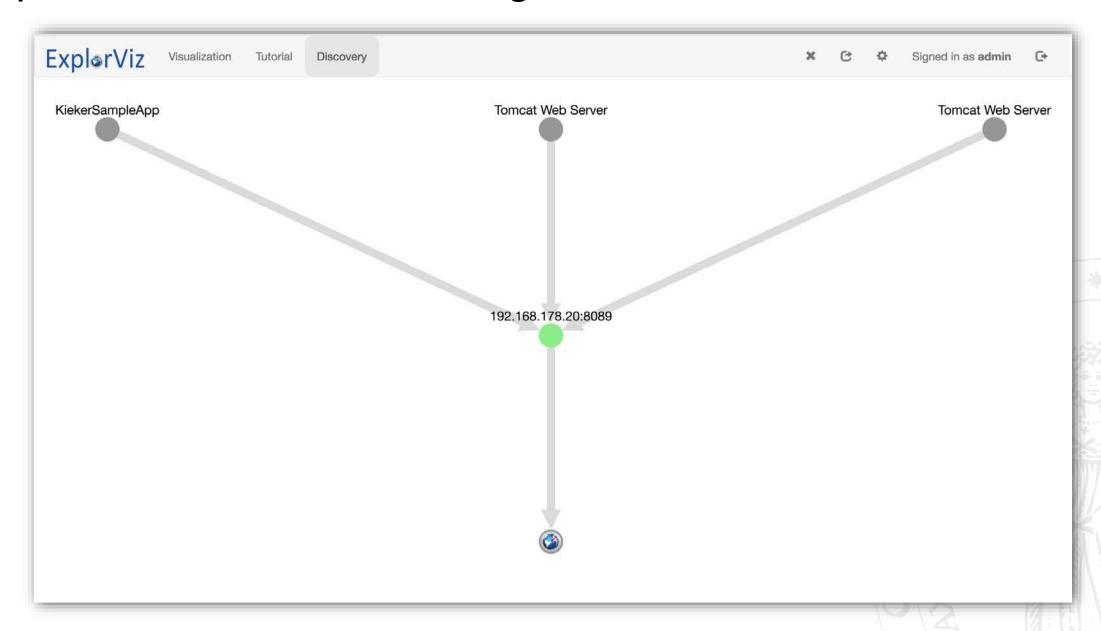
## Architecture – Component Design



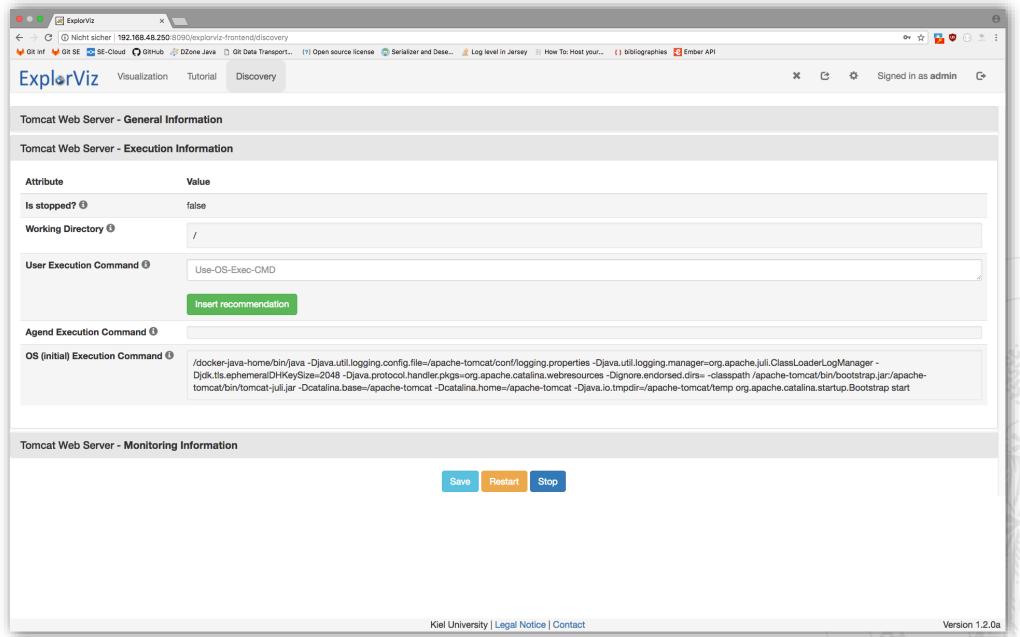
# ➤ Implementation – Software Stack



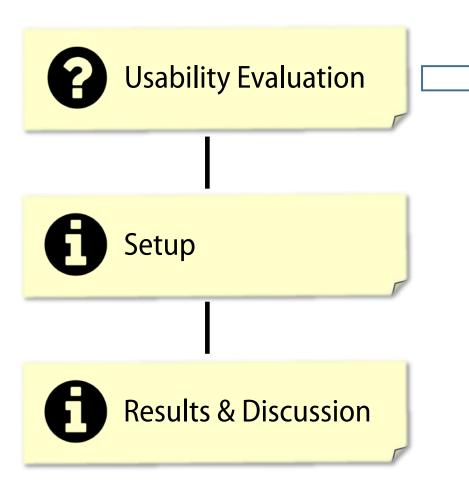
# ➤ Implementation – Overview Page



# ➤ Implementation – Overview Page



### **➤** Evaluation



#### Goals

- Overall usability regarding setup and operation
- Realization of usability characteristics

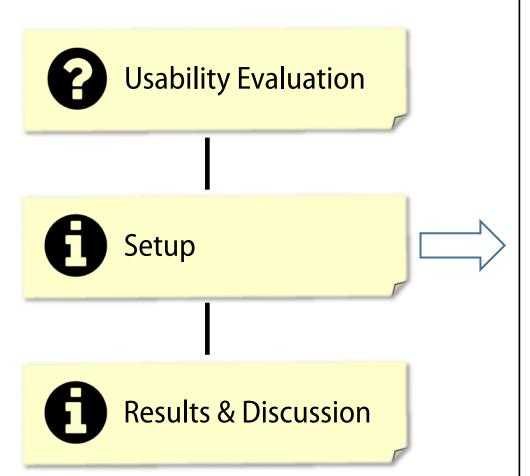
#### **Experiment**

- Proband solved tasks
- Conductor notated issues

#### **Structural Interview**

- Perceived usability
- Enhancements

## **➤** Evaluation



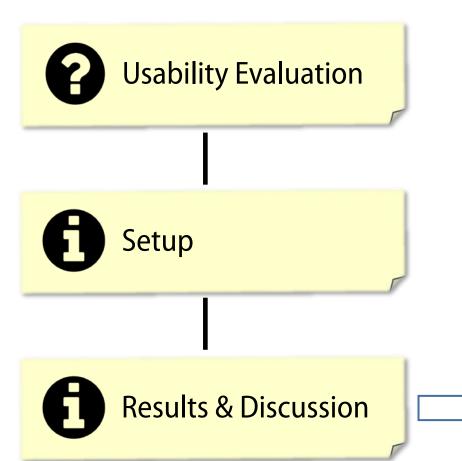
		Setup
Name	Quantity	Specification
node2, node3		CPU: 2x Intel Xeon E5-2650 (2.8GHz, 8 cores)
	2	Ram: 128 GB
		OS: Debian
lp1	1	CPU: Intel Core i7-6700HQ
		Ram: 32 GB
		OS: Windows 10
lp2	1	CPU: Intel Core i5-4278U
		Ram: 16 GB
		OS: macOS High Sierra

#### **Software Landscape**

- 9 running applications
  - Tomcat with JPetStore 6
  - kiekerSampleApplication¹



## **➤** Evaluation



#### Learnability

- Setup requirements are manageable
- Monitoring Management is easily accessible...
- ... but requires knowledge about program internals

## Conclusions & Future Work

Observations indicate good usability



More research required

Simple centralized monitoring management



Feature enhancements

Application Discovery method works



But what about JKD 9?

## ➤ Live Demo

