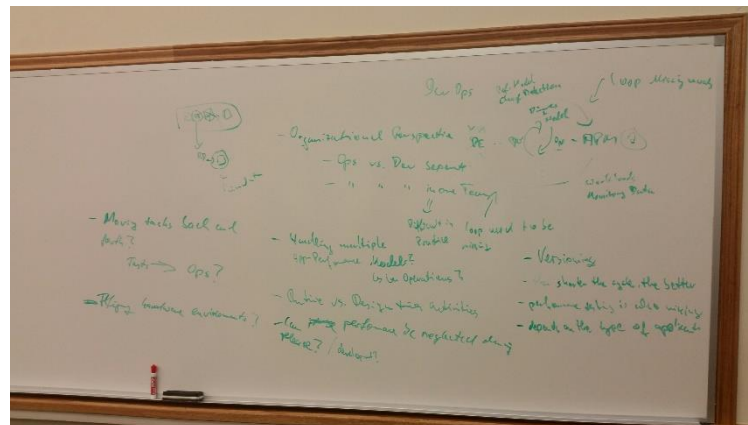


DevOps Performance Breakout Group Results

Workshop on Challenges in Performance Methods for
Software Development (WOSP-C)

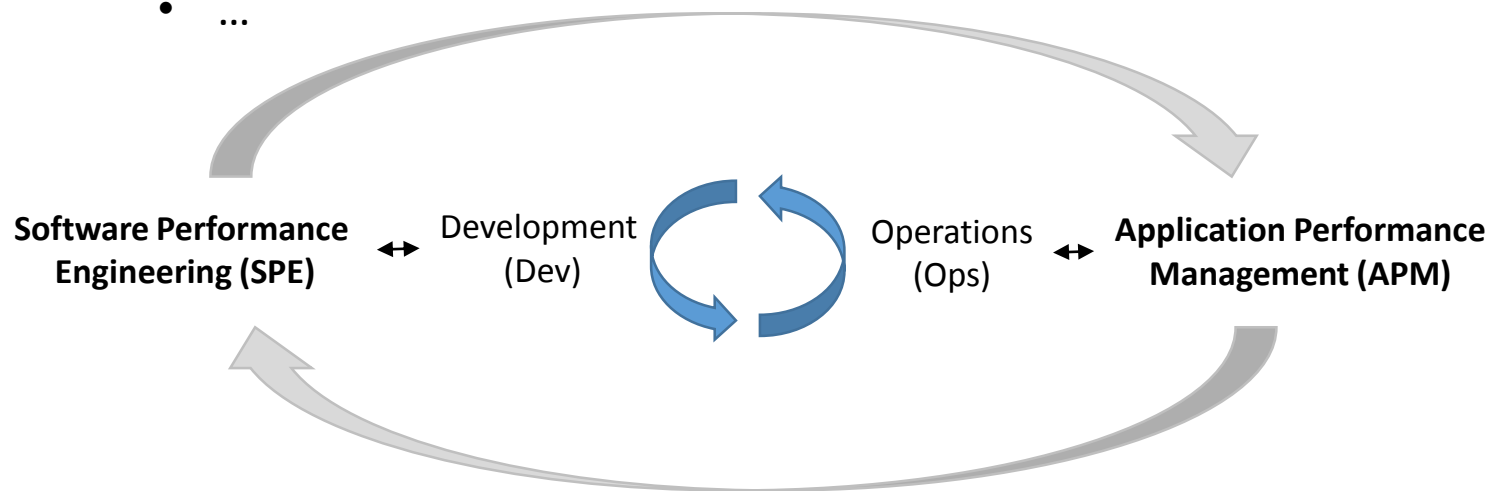
Austin, TX, USA, January 31st, 2015



Supporting DevOps Processes by Integrating SPE and APM Activities

Supporting **information exchange** in the direction **Dev -> Ops** by:

- Using performance models to describe a new software release
- Use performance unit tests / performance change detection techniques (automated & continuously)
- ...



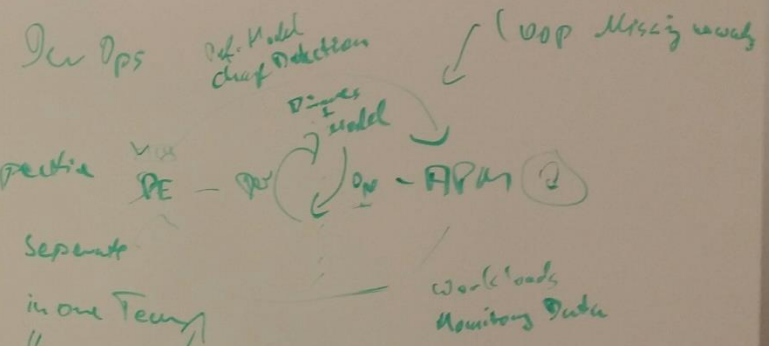
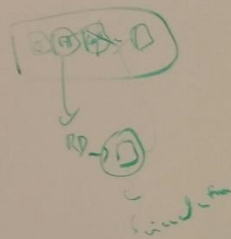
Supporting **information exchange** in the direction **Ops -> Dev** by:

- Using monitoring data to derive representative workloads
- Using monitoring data to parameterize design-time performance models (e.g., for reused components)
- ...

Challenges for SPE/APM in DevOps

- How to realize DevOps setups from an organizational perspective? (e.g., putting Dev and Ops people into the same team, Noops)
- How to assign responsibilities for SPE/APM activities/tasks in DevOps teams? (e.g., when different organizations are involved; moving tasks from Ops to Dev)
- How to overcome the issue that Dev-Teams often deal with a specific application whereas Ops-Teams often have to deal with a huge amount of applications? (e.g., if Dev-Teams provide information for a specific application to Ops-Teams, how do they correlate this information for all applications they need to maintain)
- How to include traditional load test in rapid release cycles? (e.g., more than 10 releases per day)
- Versioning of performance metrics collected during release tests
- Is it feasible to neglect performance during release and to rather test it on a subset of users in production?

Results on the Whiteboard



- Organizational Perspective
- Ops vs. Dev separate
- " " " in one Team

Difficult in loop used to be

- Moving tasks back and forth?
Tests → Ops?

- Handling multiple App-Performance Models? (is in Operations?)
- Dev vs. Design time activities
- Can ~~the~~ performance be neglected during release? / development?

- Versioning
- Dev shorten the cycle, the better
- performance testing is also missing
- depends on the type of applications

- Flipping hardware environments?

