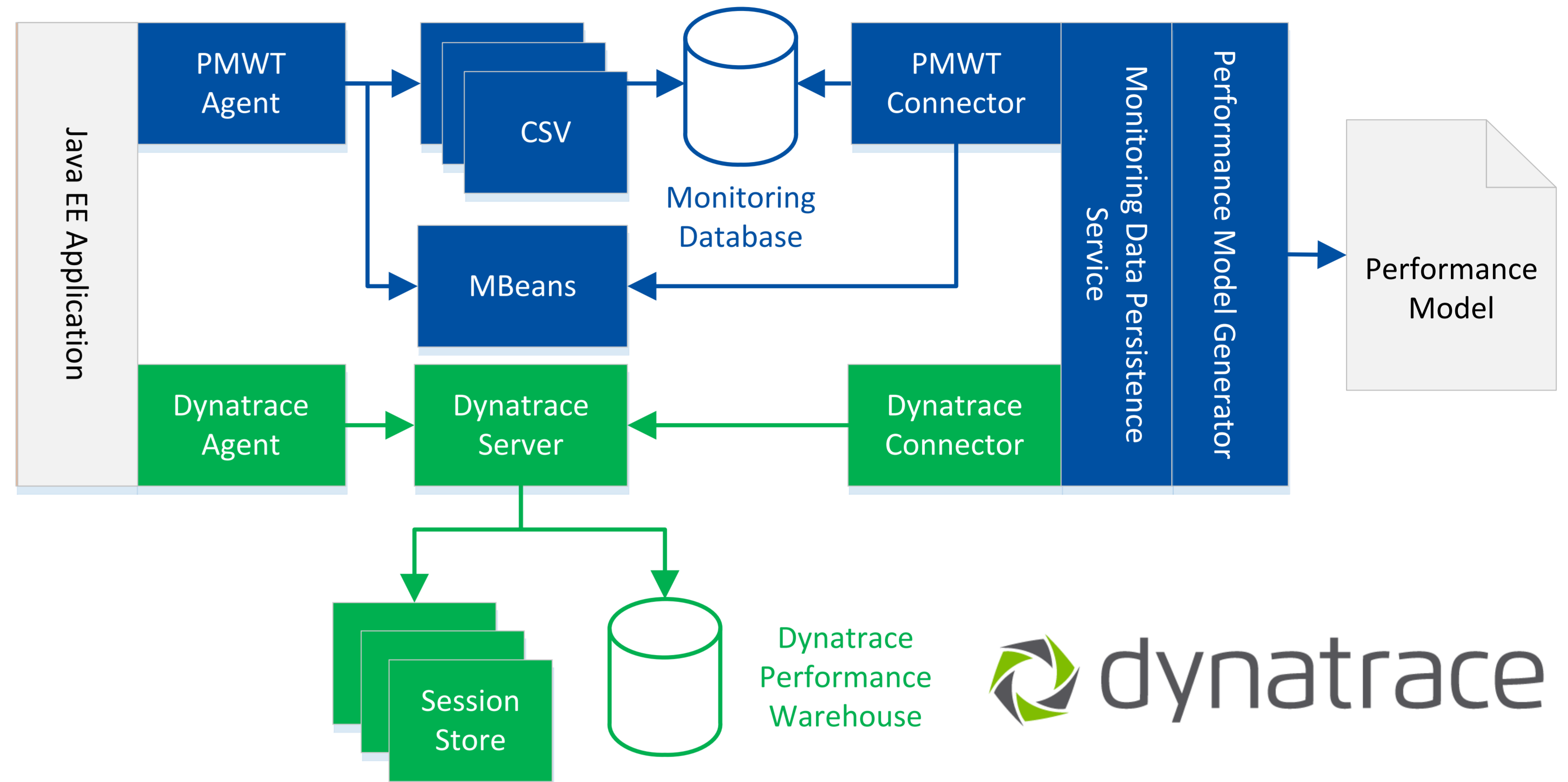


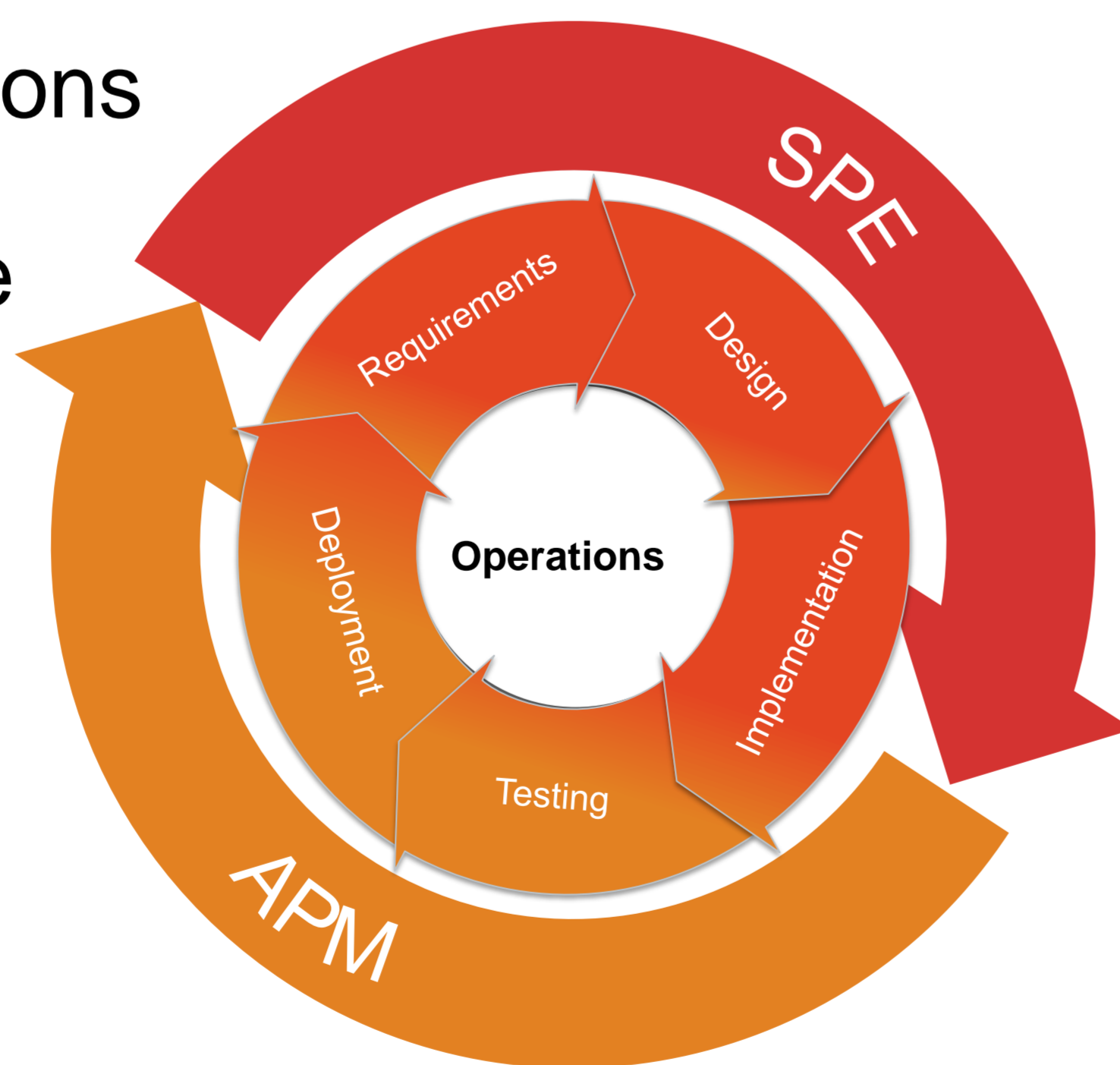
- Creating performance models requires a lot of expert knowledge
- Model-based performance evaluation techniques proposed by the scientific community are often only applicable once a model of a system exists
- Several approaches were proposed to automatically construct performance models but they use self-written monitoring solutions



Integrating Measurement- and Model-based Performance Evaluation Techniques

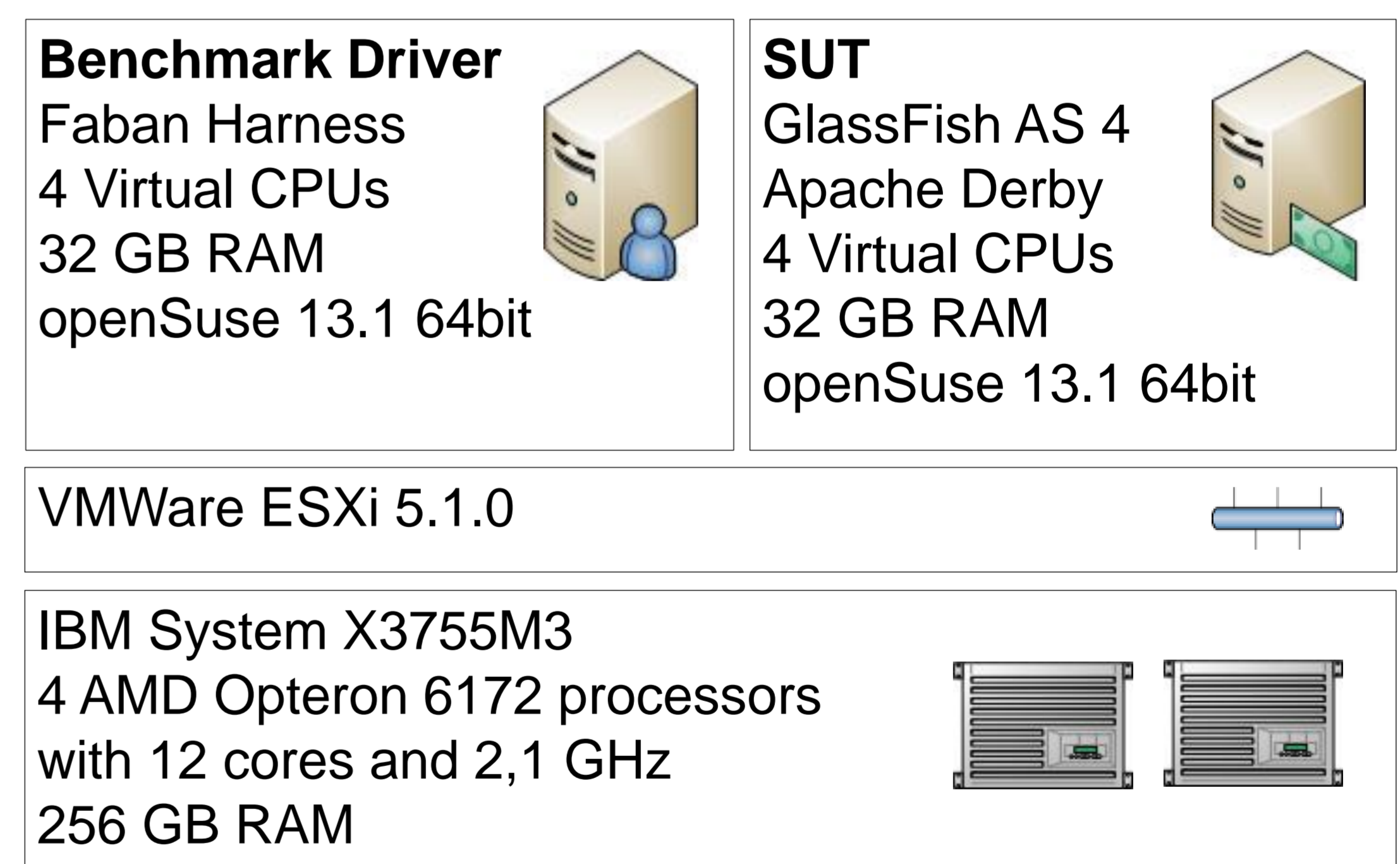
Application Areas

- Use existing **Application Performance Management (APM)** knowledge for model-based **Software Performance Engineering (SPE)** activities such as:
 - Early Performance Predictions (e.g., when reusing existing components)
 - Architecture Optimizations
 - Detecting Performance Changes
 - Capacity Planning
 - ...



Evaluation Using SPECjEnterprise2010

Experiment Setup



Results

- CPU utilization prediction error between 2 and 10 %
- Response time prediction error between 8 and 27 %



Interested? Learn more: <http://pmw.fortiss.org>
 Or contact us directly: performancegroup@fortiss.org