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DevTest for Performance Testing

Surya Anil Kumar Suravarapu

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Agenda

Application Performance

Performance Testing

DevTest – Application Test and Service Virtualization

Application Test for Performance Testing

Performance Testing and Service Virtualization

Benefits

Demo

Q & A

Application Performance

Critical to organizations

- Vital function

Applications

- First Point of contact with customers

Faster release of applications

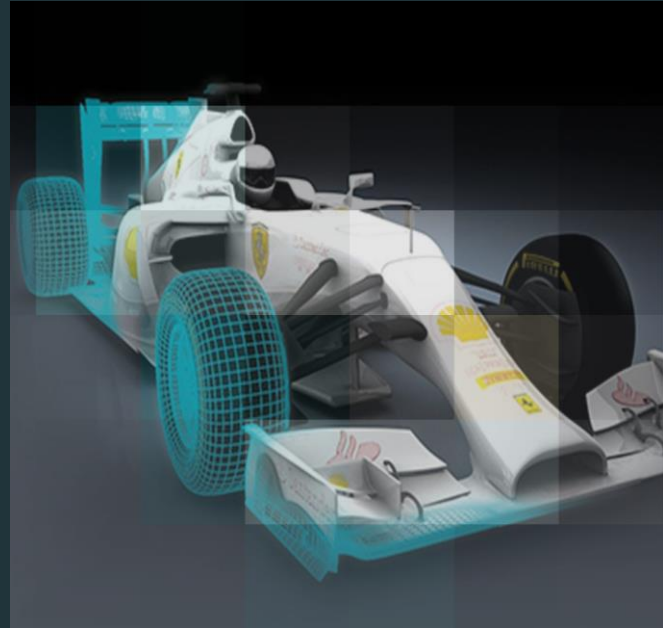
- Agile and Rapid Delivery
- Shorter release cycles

Customer expectations

- Faster load times

Numerous dependencies

- 3rd Party integrations



Performance Testing

Typical Scenarios

- Very few developers performance test their code
- Performance testing done late in the cycle
- Scaled down tests
- Limited scenarios tested

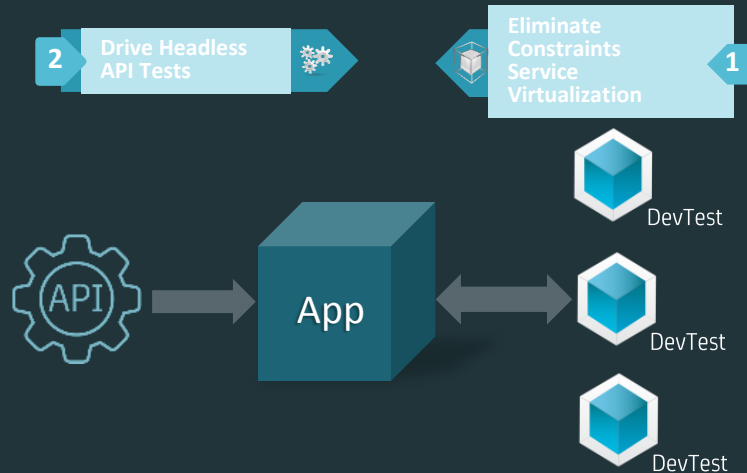
Outcomes

- Timelines slippage
- Design changes discovered late
- Release with exceptions
- Performance incidents
 - Reactive not proactive



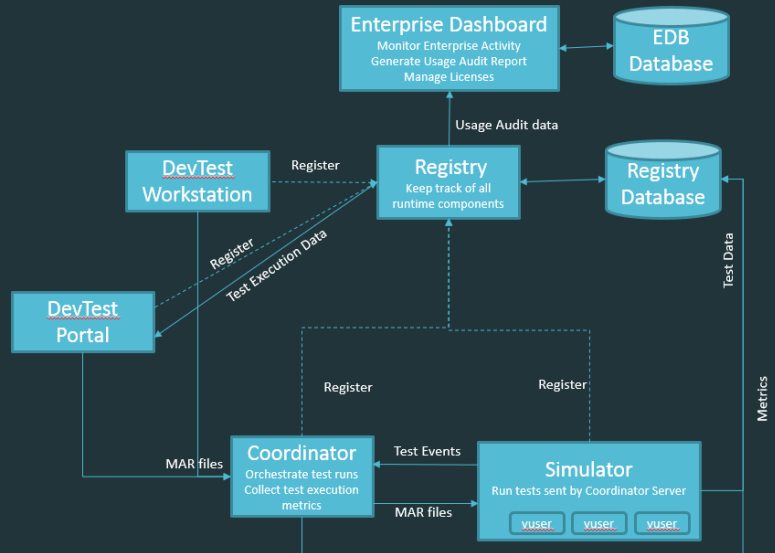
DevTest – Application Test and Service Virtualization

- Enable better component testing
 - “Always there” environments
 - More full-featured environments
 - Data/Access
 - End-to-end
 - Performance
- Eliminate both upstream and downstream constraints



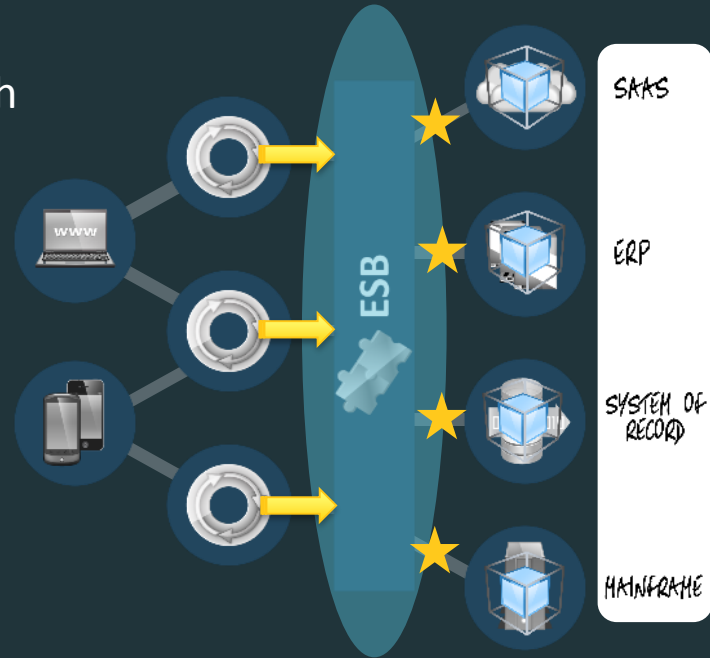
Application Test for Performance Testing

- Performance testing through load generation
- Load generation
 - Simulators
 - Virtual Users
- Stage Tests
 - Coordinator
 - Orchestrate test runs
- Load configuration specification
 - Staging documents



Performance Testing and Service Virtualization

- CA Service Virtualization for Performance
- Eliminate Constraints through virtualizing services
 - Simulate unavailable systems
 - Simulate 3rd Party systems
 - Simulate scalability of systems
 - Meet the data needs
- Scalability
 - Setting Capacity
 - Allocating memory
 - Appropriate Log Levels



Benefits

- Shift Left of Performance Testing
- Component based performance Testing
- Scalable performance tests
 - Production like tests
- Complete test coverage
 - Test all scenarios
- Cost Savings
 - Virtualize 3rd party systems
 - Reduced cycle times
- Test multiple scenarios
 - Negative scenarios like slower services



Demo





Surya Anil Kumar Suravarapu

Sr. Engineering Services Architect

SuryaAnilKumar.Suravarapu@ca.com



[@suravarapu](https://twitter.com/suravarapu)



slideshare.net/SuryaAnilKumarSurava



linkedin.com/in/surya-suravarapu

ca.com