Panel Description

Testing as a Service in the Cloud

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INTRODUCTION

Cloud computing and cloud testing are paradigm changes to computation and testing as we know it. Leading market research including Gartner project a cloud service market of $100+ billion well before 2015. Testing as a Service (TaaS) in Clouds, aka Cloud Testing, is a new business and service model where testing activities are performed using cloud infrastructure by leveraging cloud technologies.

Advantages of cloud testing include reduced costs from a shared resources and large-scale test environments. While the focus of this discussion is on "testing as a service in the cloud", there are other forms of cloud-based testing such as testing of a cloud, testing inside a cloud and testing over clouds. Similarly, there are different types of cloud test environments. Among the many differences from conventional "dedicated" testing, in cloud testing there are requirements around SLA's and service capabilities, pricing models, and data & traffic simulations. Essentially, TaaS is an outsourced model of conventional testing.

Testing as a service in the cloud is a promising and exciting evolution of testing with tremendous economic ramifications. Is it the next generation of testing or a passing phase? The panel discussion among experts in this area will cover many topics including some of those listed below.

TOPICS COVERED IN THE POSITION STATEMENTS AND PRESENTATIONS

The expert panelists will present their views and experiences covering questions including,

1. What in your view is cloud testing and its benefits?
2. What types of testing are suitable for testing on the Cloud?
3. What are the factors to successfully providing testing as a service?
4. What are the problems and challenges in Testing in the Cloud?
5. What are the major differences between conventional software testing and cloud-based software testing?

DISCUSSIONS AND Q&A

The second part of the session will be a lively discussion with questions from the audience as well as the following.
1. How easy or difficult is it to set-up test environments for testing in the cloud?
2. What is the true value-addition in TaaS?
3. Is TaaS secure? Can security sensitive applications be tested in the Cloud? What about applications from regulated industry such as healthcare, with confidential patient information?
4. Is TaaS here to stay?

CLOSING REMARKS

Panelists will summarize their vision on the future.

PANELISTS

Expert panelists from academia and industry will participate.
- Prof. Hong Zhu, Oxford Brookes University, United Kingdom
- Prof. Scott Tilley, Florida Institute of Technology, USA
- Prof. Jerry Gao, San Jose State University, USA
- Raj Rao, VP Global Head – Software Quality, NTT Data, USA
- Prof. Jun Wei, Chinese Academy of Science, China
- HP, USA