Quality of Manageability of Web Services

Moderator: Dejan S. Milojicic, HP Labs

Panelists (alphabetical order):
- Jin Hai, Huazhong University
- Hemant Jain, University of Wisconsin, Milwaukee
- Heather M. Kreger, IBM
- Geng Lin, Cisco
- William Vambenepe, HP

Panel Theme:

Web Services has become a predominant paradigm in delivering services to users. A number of standards and solutions have paved the way to reliable and secure way of Web Services execution. One area that still has not sufficiently matured is management of Web Services. There are currently a couple of standards that are being defined, such as Web Services Distributed Management and Web Services Management. However, this is a complex problem, encompassing dependencies on the underlying resources, dealing with distributed services, their availability, scalability, security, etc. Of particular concern is the automation of management and cost of management.

This panel will present perspective of management of Web Services from the IT perspective and from the user perspective. Particular attention will be paid to the quality of manageablebility, i.e. how is management expressed and enforced; how much can it be automated; how can it be adapted to continuous changes in the Web Services, underlying IT infrastructure, as well as in the user needs and demands. Cost of management is directly proportional to quality of management and it is usually deciding factor in choosing between existing solutions. If the Web Services community can make management of Web services right, it will significantly reduce the cost of ownership, improve the user experience, and enable new opportunities for delivering services in years to come.

Biographies

Moderator

Dejan S. Milojicic is a senior scientist and a project manager of HP Labs since September 1998. He has been active in the IEEE Technical Activities Board. He received his B.S. and M.S. degrees in Electrical Engineering, University of Belgrade, Yugoslavia, and his PhD from University of Kaiserslautern, Germany. He spent 8 years in the scientific institute "Mihajlo Pupin", Belgrade, researching and developing operating systems. He was a member of the OSF Research Institute, where he developed concurrent remote task creation for the Mach microkernel. His research interests focus on migration and agents, distributed systems, operating systems, and load balancing.

Panelists

Hai Jin is a Professor of Computer Science and Engineering at the Huazhong University of Science and Technology (HUST) in China. He received his Ph.D. in computer engineering from HUST in 1994. He worked for the University of Hong Kong, and as a visiting scholar at the University of Southern California. He is the chief scientist of the largest grid computing project, ChinaGrid, in China. He served
as program committee for more than 70 conferences. He co-authored four books and over 150 research papers. His research interests include clusters, grids, and p2p-computing; network storage and security; and high assurance computing.

Hemant Jain is Wisconsin Distinguished & Tata Consultancy Services Professor of Management Information System. Prof. Jain holds a Ph. D. in Information System from Lehigh University and a M. Tech. in Industrial Engineering from I.I.T. (India). He has published over 50 articles in leading journals and over 40 papers in referred conference proceedings. Prof. Jain is associate editor of several major journals and is on the board of Steering Committee of IEEE Technical Committee on Services Computing and is a member of Service, Systems and Organizations Technical Committee of the IEEE SMC Society. He was the program co-chair of ICWS’04.

Heather Kreger is a lead architect for Web Services and Management in the Standards and Emerging Technologies area. She is currently co-lead of the OASIS Web Services Distributed Management Technical Committee and member of several related DMTF Work Groups. Heather was IBM’s representative to the W3C Web Services Architecture Working Group as well as co-lead of JSR109 that specifies web services deployment in J2EE environments and a contributor to the Java Management Extensions (JMX) specification. Heather is also the author of numerous articles on Web services and of her book “Java and JMX, Building Manageable Systems”.

Geng Lin is a Director of Engineering at Cisco Systems. He holds a Ph.D. degree in Computer Science from University of British Columbia. Dr. Lin is a researcher as well as an R&D leader in the areas of network-aware algorithms and applications. Currently he leads a R&D team of 120 staff members in four countries developing large scale network-aware middleware applications. Dr. Lin publishes and speaks regularly at technical conferences and industry trade shows. He delivered tutorials at IEEE/IFIP NOMS and ICETE on network manageability. He servers or has served on editorial boards of JNSM and JWSR.

William Vambenepe is a Senior Architect in the Office of the CTO of HP's Management Software Business where his work focuses on creating the management infrastructure for the Adaptive Enterprise. In addition to internal architecture work, William represents HP in several standards group relevant to Web services and management, including the OASIS WS-Notification technical committee which he co-chairs and the OASIS WSDM technical committee where he is the editor of the MUWS (Management Using Web Services) specification, an OASIS standard.