

Data Access Patterns in The Amazon.com Technology Platform

Werner Vogels
Amazon.com

ABSTRACT

The Amazon.com technology platform provides a set of highly advanced business and infrastructure services implemented using ultra-scalable distributed systems technologies. Within this environment we can identify a number of specific data access patterns, each with their own availability, consistency, performance and operational requirements in order to serve a collection of highly diverse business processes. In this presentation we will reviews these different patterns in detail and discuss which technologies are required to support them in an always-on environment.

Biography of the Speaker

Dr. Werner Vogels is Vice President and Chief Technology Officer at Amazon.com where he is responsible for driving the company's technology vision, which is to continuously enhance the innovation on behalf of Amazon's customers at a global scale. Prior to joining Amazon, he worked as a researcher at Cornell University where he was a principal investigator in several research projects that target the scalability and robustness of mission-critical enterprise computing systems. He has held positions of VP of Technology and CTO in companies that handled the transition of academic technology into industry. Vogels holds a Ph.D. from the Vrije Universiteit in Amsterdam and has authored many articles for journals and conferences, most of them on distributed systems technologies for enterprise computing.

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