



Fog Orchestration for Internet of Things Services

Large-scale Internet of Things (IoT) services such as healthcare, smart cities, and marine monitoring are pervasive in cyber-physical environments. These complex IoT services are increasingly composed of sensors, devices, and compute resources within fog computing infrastructures. Orchestrating such applications can simplify maintenance and enhance data security and system reliability. However, efficiently dealing with these services' dynamic variations and transient operational behavior is a crucial challenge. This article provides an overview of the core issues, challenges, and future research directions in fog-enabled orchestration for IoT services.

Zhenyu Wen
University of Edinburgh

Renyu Yang
Beihang University

Peter Garraghan
University of Lancaster

Tao Lin
*École Polytechnique Fédérale de
Lausanne*

Jie Xu
University of Leeds

Michael Rovatsos
University of Edinburgh

Cyber-physical environments encompass physical and virtual components capable of interfacing and interacting with existing network infrastructure, enabling novel applications in areas such as smart cities, intelligent transportation, and autonomous vehicles. The explosive growth in data generation has led to a focus in both research and industry on issues related to effectively extracting insights from such data to assist in the design of cyber-physical systems. Internet of Things (IoT) services typically comprise a set of software components running in different locations and connected through dynamic networks (such as 4G, wireless LAN, and the Internet). Systems such as data centers and wireless sensor networks (WSNs) underpin the data storage and compute resources required for operating these components.

Fog computing extends cloud computing by moving computation and data

storage to the edge of the network, allowing for reduced latency and response delay jitter for applications.^{1,2} These characteristics are particularly important for latency-sensitive applications, such as gaming and video streaming. In the IoT environment, existing applications and physical devices can be leveraged as fundamental appliances and composed in a mashup style to control development cost and maintenance pressure. Orchestration is a key concept within distributed systems, enabling the alignment of deployed applications with users' business interests. We propose a fog orchestrator, to provide the centralized arrangement of the resource pool, mapping applications with specific requests and providing an automated workflow to physical resources (deployment and scheduling); workload execution management with runtime quality of service (QoS) control; and time-efficient directive generation to manipulate specific objects.

Fog Orchestration For Internet Of Things Services

Robert R. Redfield



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