

Developing API Economy: Associating Value to APIs and Microservices in an Enterprise

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Abstract : The IT industry has seen many transformations in the Software Development Life Cycle (SDLC) methodologies and development approaches. SDLCs range from waterfall to agile, and the development approaches from monolith to microservices. Management, orchestration, and monetization of microservices have created an API economy in the modern enterprise. There are two approaches to API design, code first and design first. Design first is gaining popularity in the industry as this allows capturing the API needs from the stakeholders rather than the development teams guesstimating the needs and associating a monetary value with the APIs and microservices. In this publication, we describe an approach to organizing and creating stakeholder needs and requirements for designing microservices and APIs.

Keywords : requirements engineering, enterprise architecture, APIs, microservices, DevOps, continuous delivery, continuous integration, stakeholder viewpoints

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