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Microservices and APIs: a necessary union

Microservices architectures (<https://www.mulesoft.com/integration-solutions/api/microservices>) are gaining traction in enterprises. In fact, they are one of the most popular ways to design software applications. **Microservices** (<https://www.mulesoft.com/resources/api/what-are-microservices>) is credited with offering greater enterprise agility, making it easier to change and develop new applications more quickly than in a traditional monolithic development approach. This architecture has been successful in high-profile organizations like Netflix, Google, Amazon, and others, leading others to emulate the model.

4 Steps to create an API Strategy

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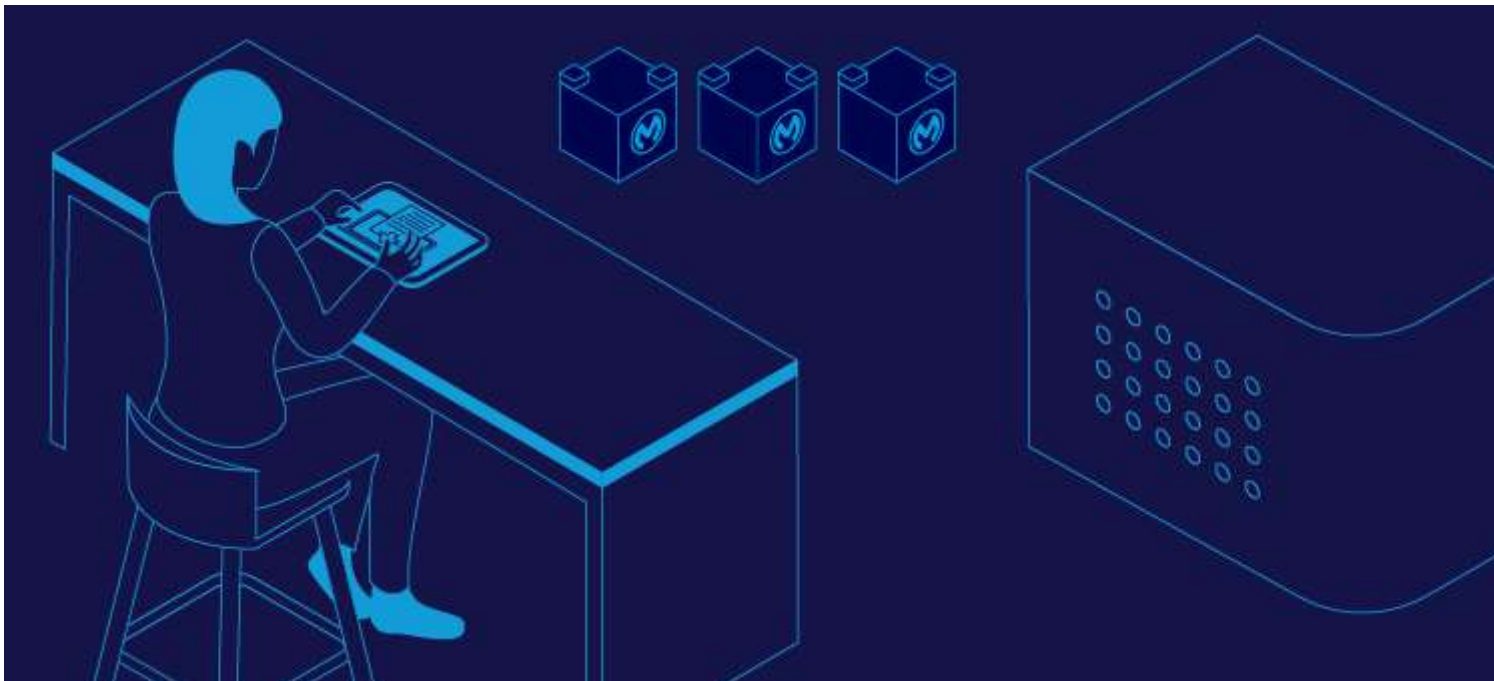
(<https://www.mulesoft.com/lp/whitepaper/api/api-strategy-essentials>)

For most enterprises, the adoption of and transition to microservices architectures will be an evolutionary journey in which

live alongside traditional
imperatives.

increased complexity and the risk
([resources/api/what-is-an-api](https://www.mulesoft.com/resources/api/what-is-an-api))

numerous other architectural
microservices provide while taming
([connected-business-strategy](https://www.mulesoft.com/resources/api/connected-business-strategy))
her than live in a walled garden
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Unlocking the hybrid integration dividend

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Capgemini and former Global CIO of

McDonald's, will discuss the report's

findings and how using APIs with hybrid

integration are the keys to achieving an

increase in speed, agility, and the ability to

innovate.

4 Steps to create an API Strategy

Learn how to use APIs to expose data from a variety of systems and increase government digital service delivery by over 60%.

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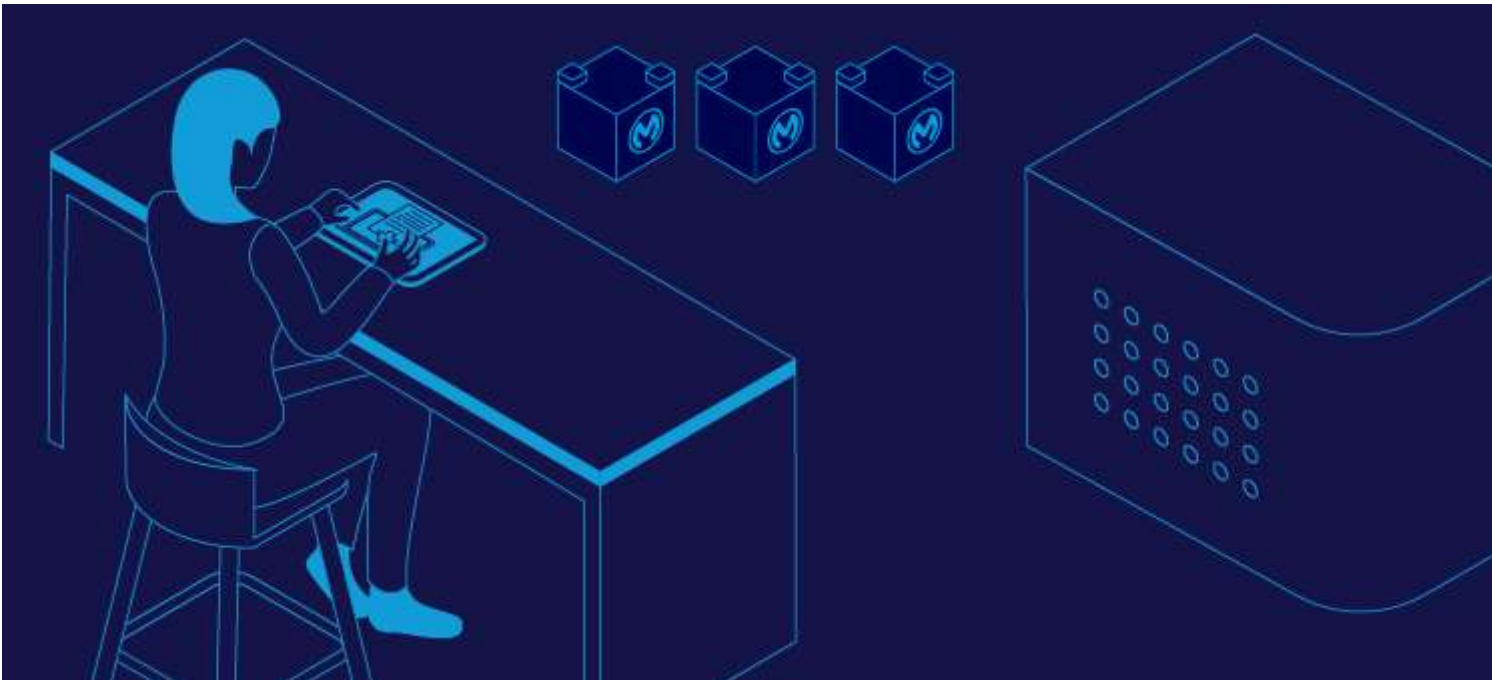
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APIs in .NET: Using RAML tools for Visual Studio

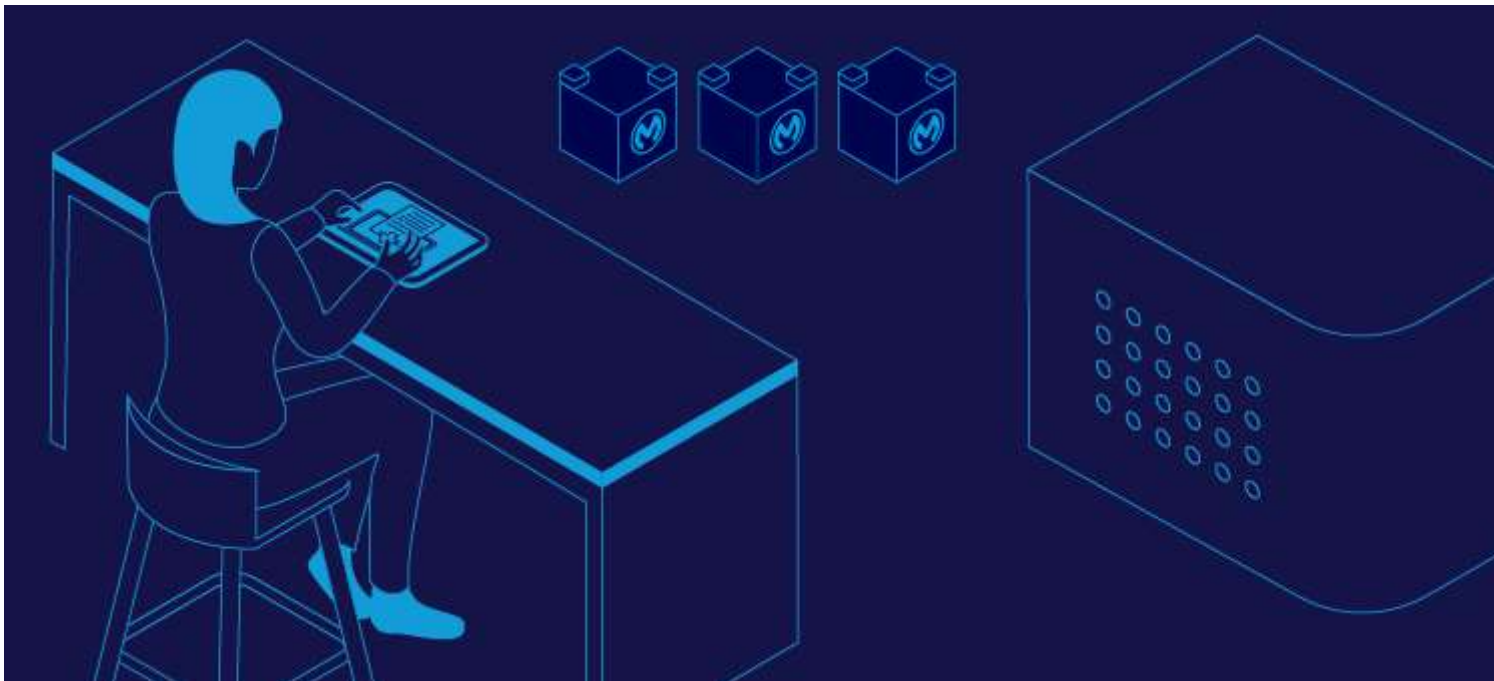
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4 Steps to create an API Strategy

Download whitepaper demo to learn how to build, publish and consume APIs using Visual Studio and Anypoint Platform.

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APIs were once low-level programming code interfaces, but now they have become products in and of themselves, adhering to standards like **REST** (<https://www.mulesoft.com/resources/api/restful-api>), which make them developer-friendly and with a stronger discipline for management and governance. API providers now compete against each other for developers' attention and an entire API economy has sprung up around the exchange of value between API consumers and API providers.

The change in what APIs can be used for also changed their technical requirements. APIs now need sophisticated portals so developers could discover and experiment with them and mechanisms to register and pay for them, and throttle usage. And, because APIs are exposed externally, they need strong security capabilities through an **API gateway** (<https://www.mulesoft.com/resources/api/secure-api-gateway>). All of this functionality comprises API management, which is a capability to provide control, visibility and governance over these increasingly valuable business assets.

4 Steps to create an API Strategy

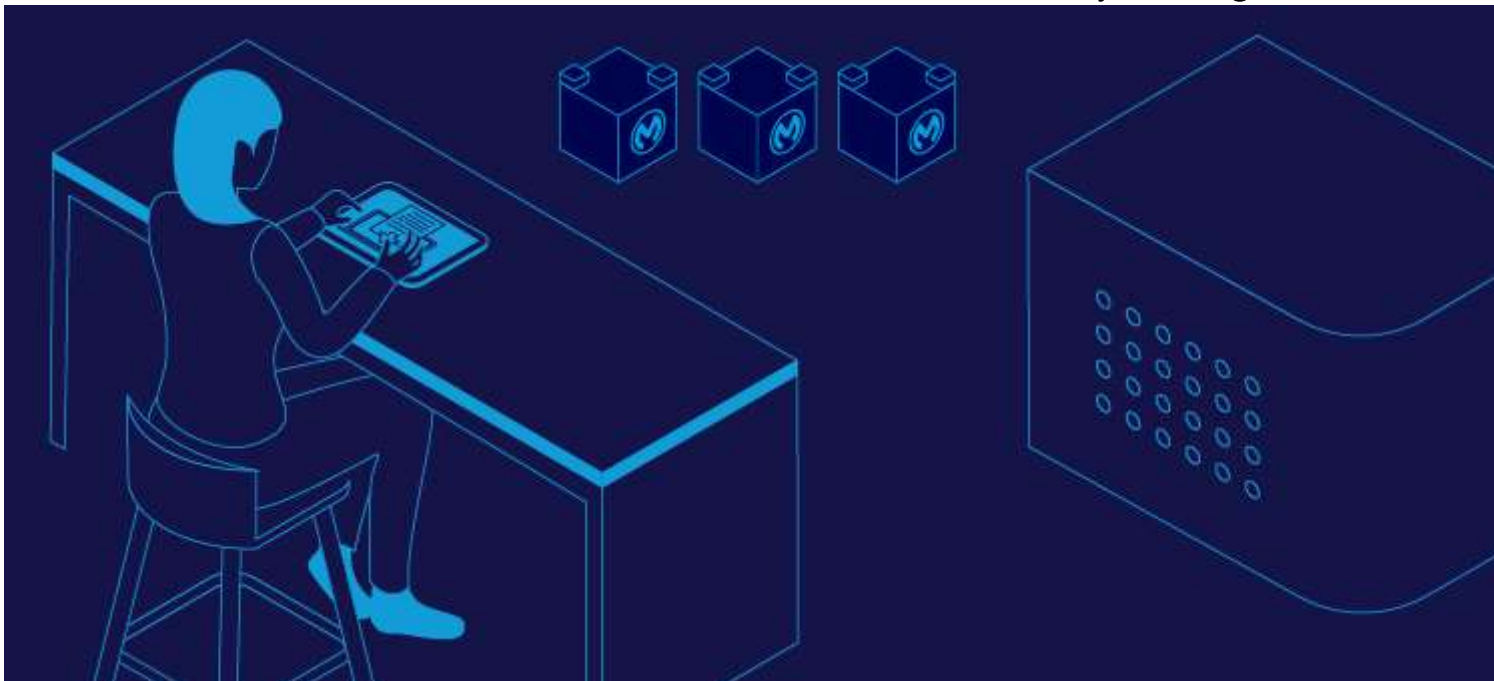
All the focus on APIs for external consumption (and the value they create) raises a question: is there a way to achieve the same value for APIs exposed internally? Now that API management technologies have become more mature, discovery and self-service of data sources, services and applications are now possible. This gives more teams throughout the business the ability to develop software in a controlled and visible way, scaling the productivity of the IT team and creating an internal API economy.

With a microservices architecture, the value of internal APIs is even greater, because as microservices create more

between all those endpoints is a
to develop an API strategy.

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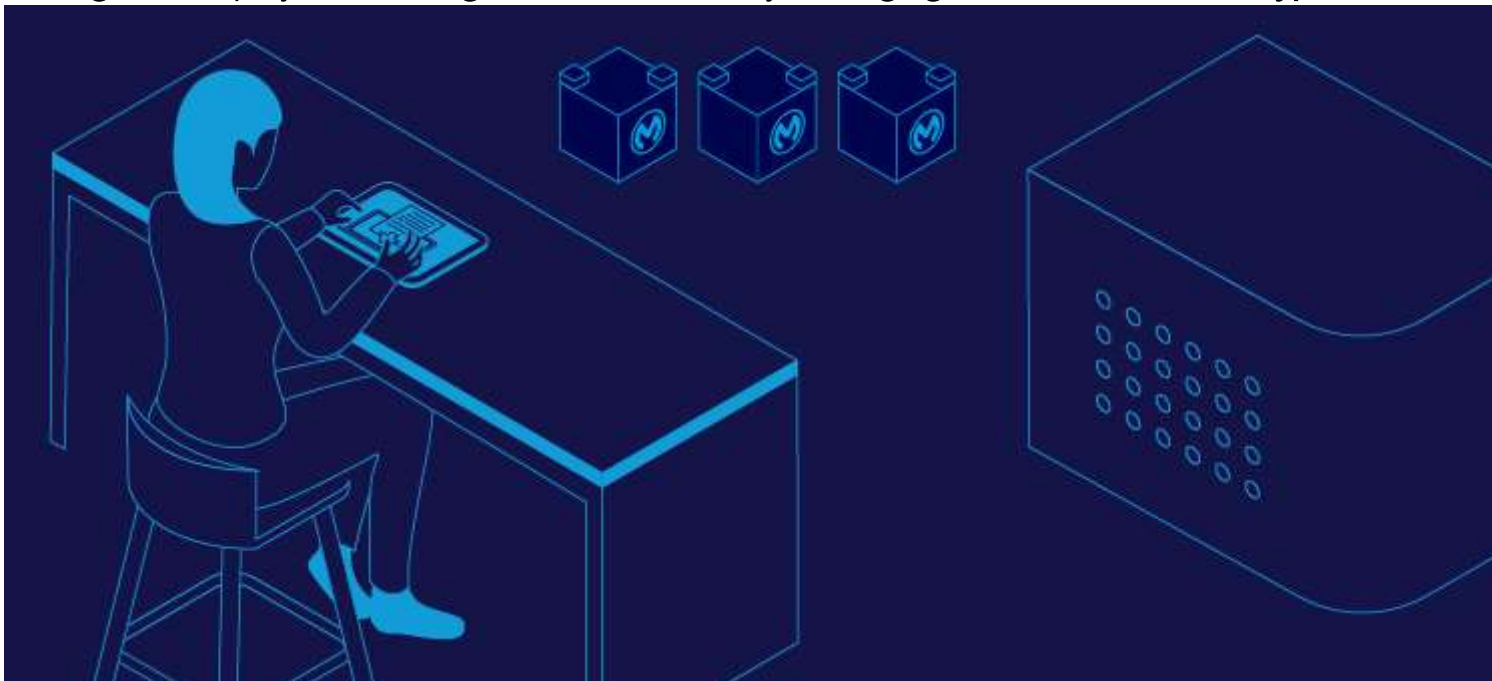


APIs not only bridge the gap between microservices and traditional systems, but also make it easier to build and manage microservices. With an API strategy, companies can expose the functionality of microservices as products, which can lead to both increased revenue and value.

Standardized, productized APIs also help defray the significant costs associated with building point-to-point integrations between legacy systems and SaaS applications. This allows organizations to quickly plug and unplug microservices as business needs require, without endless amounts of custom code. APIs grant the benefits of standardized mechanisms for traffic management and monitoring, logging, auditing and security in a standardized way throughout the enterprise, while retaining the agility required by the business.

How MuleSoft helps companies implement microservices and APIs

To facilitate the co-existence of microservices and APIs, it becomes necessary to deploy a single, unified platform that can integrate, manage and provide visibility into any microservice or legacy system integration throughout the business, wherever it might be essential? https://www.mulesoft.com/lp/whitepaper/api/api-strategy-essentials?utm_source=rtf&utm_medium=referral&utm_campaign=api-strategy-essentials



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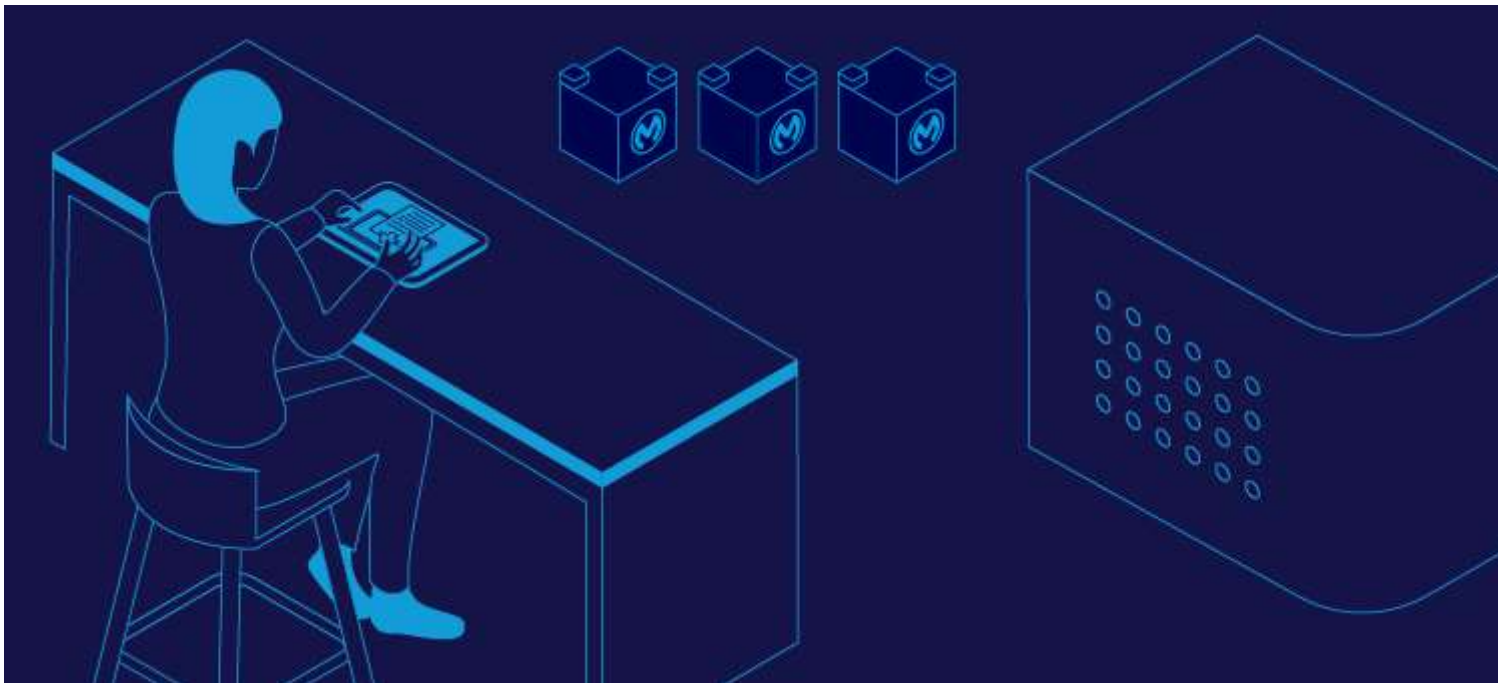
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