Modern software integration is the fusion of various applications and/or systems with the common goal to unify isolated data. Often, this signifies the transition of legacy applications to cloud-based systems and nuanced messaging infrastructure via microservices and REST APIs.

This Trend Report will fill in the gaps for modern integration practices by exploring trends in APIs, microservices, and cloud-based systems and migrations.

**Expert Insights**

The Software Integration Trend Report will cover topics such as:

- An overview API-driven microservices architecture use cases, benefits, drawbacks, etc.
- Achieving Data Consistency: Explore what this looks like across microservices, integrations, APIs, and more (SAGA design pattern, GraphQL, and/or others)
- REST vs. Messaging for Microservices: Comparing messaging infrastructures; benefits and challenges; keys to successful, streamlined infrastructure
- Beginner’s guide to integration automation
- Event-Driven Design Paradigms
- Approaches to API management with special attention to best practices
- Designing Application Architectures: Discuss BDD, TDD, DDD, etc.; advice on how to choose the right framework
- Cloud Integrations & Strategies
- Relation between APIs, microservices, and containers

**Developer Survey**

The research component of this report will explore the core principles of software integration and how survey respondents unify isolated data amongst applications, database systems, and the cloud. Topics can include:

- Common integration trends: Challenges/difficulties, simplification of development and maintenance
- Software architecture + design principles: SOLID, BDD, TDD, DDD, event-driven design
- API protocol prevalence and adoption: SOAP vs. REST vs. GraphQL
- Roles of cloud-based systems: Cloud migrations, implications of legacy applications/code on integration
- Microservices: General adoption, obstacles, and benefits
- Impacts of isolated data: Explore the role of integration/APIs on databases + DBMSs, adoption of GraphQL
SOFTWARE INTEGRATION: THE INTERSECTION OF APIS, MICROSERVICES, AND CLOUD-BASED SYSTEMS

1.5M+
Average Monthly Visitors engaging with Integration and Microservices content

64%
Tech Decision Makers (Manager+)

2m+
Average Monthly Page Views (Integration and Microservices Content)

86%
TDMs located in North America

10.6K
Downloads of DZone's Integration and Microservices publications in 2022

67%
Employed at Companies with $100M+ Revenue

Downloader Job Roles
- 35% Architect, Software Developer
- 10% Development Manager, Lead Developer
- 4% Executive Manager, VP, CTO, CIO
- 1% Marketing, Sales, Communication
- 3% President, CEO, Owner
- 48% Programmer, Developer
- 2% QA, Testing, Compliance
- 3% System Admin, DBA
- 2% Web Designer, Graphic Designer

DZone reaches 73% of business domains with intent for Integration

and 69% of business domains with intent for Microservices.

136K+ Businesses with intent for Integration and Microservices topics are visiting DZone.

Source: DZone Audience Insights, Permutive, Last 90 Days, January 23, 2023; DZone Audience Insights, Bombora Last 90 Days, January 23, 2023; DZone Publications Downloads, 2022
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Gain unique and specific insights into software industry trends. Engage an audience looking to learn best practices and implement solutions.

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Airing shortly after the Trend Report is published, Virtual Roundtables – hosted and moderated by DZone with a panel of expert contributors from the report – will focus on the research and topics in the Trend Report, furthering your thought leadership and lead generation efforts.

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