

DZone Trend Report

AUGUST 2022

Microservices and Containerization

Despite its name connotation, microservices are no small feat. They open up an array of different approaches, use cases, and design patterns to successfully scale applications. Even more, organizations are relying on cloud-native development to modernize their architectures.

DZone's **Microservices and Containerization Trend Report** will explore the current state of microservices and containerized environments to help developers face the challenges of complex architectural patterns.

Expert Insights

This Trend Report will cover approaches to cloud-native application security, dive into observability in microservices, shed light on how containers help with agility and scalability, and offer advice on how to choose the right framework to best design application architectures.

- An overview of microservice orchestration and/or container orchestration
- Multi-cloud strategies using microservices architectures
- Achieving data consistency across microservices
- Popular design patterns of microservices architectures
- REST vs. messaging for microservices
- Microservices source code management strategies
- An overview API-driven microservices architectures
- Using the microservices chassis pattern to manage cross-cutting concerns
- Why you should use service mesh with microservices

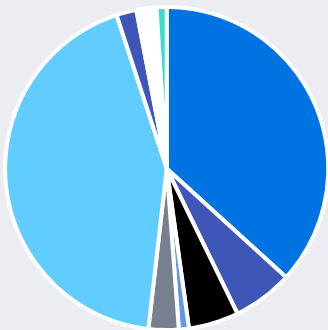
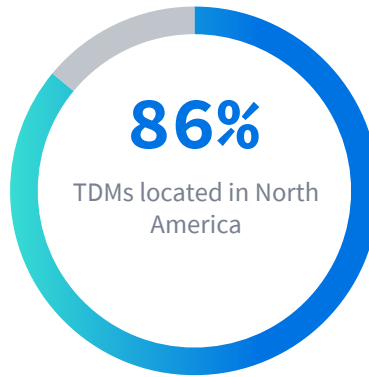
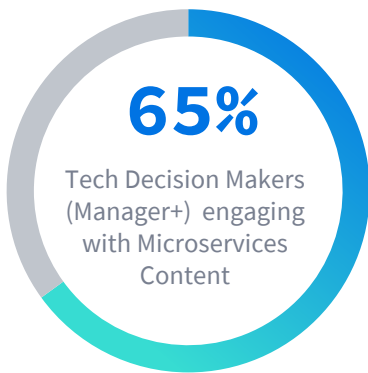
Developer Survey

The research component of this report will offer insight into the impact of microservices on application performance, dive into the importance of implementing container design principles, and explore how microservices architecture is reflected in organizational structure.

- How different companies choose to define/divide/decide size of microservices
- Usage of distributed design patterns
- Relation between microservices and programming paradigms
- Frameworks for communicating between microservices
- Upgrading, patching containerized applications
- Container security
- Environment pain points removed, mitigated, and/or exacerbated by container use
- How developers think about tradeoffs when using containers (performance, complexity, testability)
- Managing synchronous requests and dependencies

88,000+ Average monthly visitors engaging with Microservices Content

11,600+ Total Downloads of Microservices and Containers DZone Publications in 2021

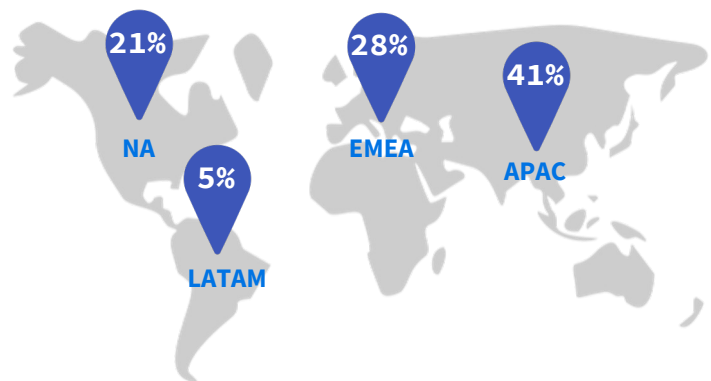


Downloader Job Roles

- **37%** Architect, Software Developer
- **6%** Development Manager, Lead Developer
- **5%** Executive Manager, VP, CTO, CIO
- **1%** Marketing, Sales, Communication
- **3%** President, CEO, Owner
- **43%** Programmer, Developer
- **2%** QA, Testing, Compliance
- **1%** System Admin, DBA
- **1%** Web Designer, Graphic Designer

DZone reaches **89%** of Microservices intenders.

21.6K Businesses with intent for Microservices content are visiting DZone.



Source: DZone Audience Composition, Bombora Last 90 Days, May 26, 2022; Market Insights, Bombora, Last 90 Days, May 26, 2022; DZone Publications Downloads, 2021

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