



Many of those who haven't yet adopted microservices plan to do so within

their organizations' integration efforts have been successful

100 microservices

Almost half of leaders' organizations that are using them manage fewer than

Microservices improved deployment speed for adopters, and many feel that

Most leaders feel they have enough resources for microservices, but many organizations still plan to increase allocation over the next three months

74% Yes

n = 69

12%

6%

2%

n = 300

4%

8%

Don't know

Can not say

49% Fewer than 100

23% 100-300

301-500

45%

fine-grained can lead to

excessive communication

are too coarse-grained can

and independence."

- Manager, utilities industry,

Completely

successful

41%

Integration with existing tech stack

"The speed of creating

releases is a big bonus; you

so you can make changes

- C-suite, arts and entertainment

Question: What are your final thoughts on microservices architecture?

over the next three months

10% Can

not say

industry, <1,000 employees

where needed."

can try and fail much quicker

40%

Not at all

successful

1%

1%

1,000 - 5,000 employees

overhead, while services that

limit the benefits of scalability

Question: What are your final thoughts on microservices architecture?

5%

Can not say

Don't know

Within the past quarter

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Data collection: Jun 18 - Jul 13, 2023

Microservices architecture is in use among most

respondent organizations Almost three-quarters (74%) of respondent organizations are currently

Is your organization currently using microservices architecture? 23% Not yet, but we plan to n = 300No

2% <1% Don't know Of those respondents whose organizations plan to adopt microservices architecture (n = 69), 39% say their organization intends to do so within the next six months. When does your organization plan to adopt microservices architecture? 1% 16% 39% **7**% Don't know Can not say This quarter Within the next 6 months

Note: May not add up to 100% due to rounding

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Respondents: 300 IT and software engineering leaders

using microservices architecture.

23% of leaders' organizations aren't

yet, but plan to.

23% 13% More than No definite 6 months timeline from now

Question shown only to respondents who answered "Not yet, but we plan

to" to "Is your organization currently using microservices architecture?"

13%

3%

3-5 years ago

More than 5 years ago

Question shown only to respondents who answered "Yes" to "Is your

organization currently using microservices architecture?"

22% Within the past 12 months 29% 14% 1-3 years ago Within the past 6 months

At organizations that have already adopted microservices (n = 223), 29% began using

them one to three years ago. 22% started using microservices within the past 12 months.

When did your organization start using microservices architecture?

Note: May not add up to 100% due to rounding "[Microservices] helped us a lot in streamlining the architectural issues in the most organized and fastest way possible. It leads to increased operational efficiency of business and its people." - Manager, educational services industry, 10,000+ employees

"Developing and testing microservices can be more involved compared

to a monolithic architecture. Ensuring proper service integration,

are important aspects that require additional effort."

Many organizations manage fewer than 100

microservices — and are satisfied with that amount

Almost half (49%) of respondent

Only 3% manage over 1,000.

How many microservices does your

the years. We have some we

that, and it's hard to get buy

likely don't need but don't

have a clear way to know

evaluate what we have."

- Manager, software industry,

As a result of using microservices

<1,000 employees

in to allocate time to

organization currently manage?

organizations using microservices (n = 223)

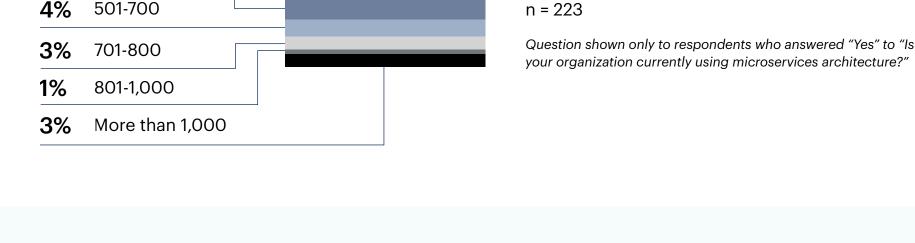
currently manage fewer than 100. 23%

currently manage between 100 and 300.

- Manager, utilities industry, 1,000 - 5,000 employees

Question: What are your final thoughts on microservices architecture?

managing dependencies and comprehensive testing across services

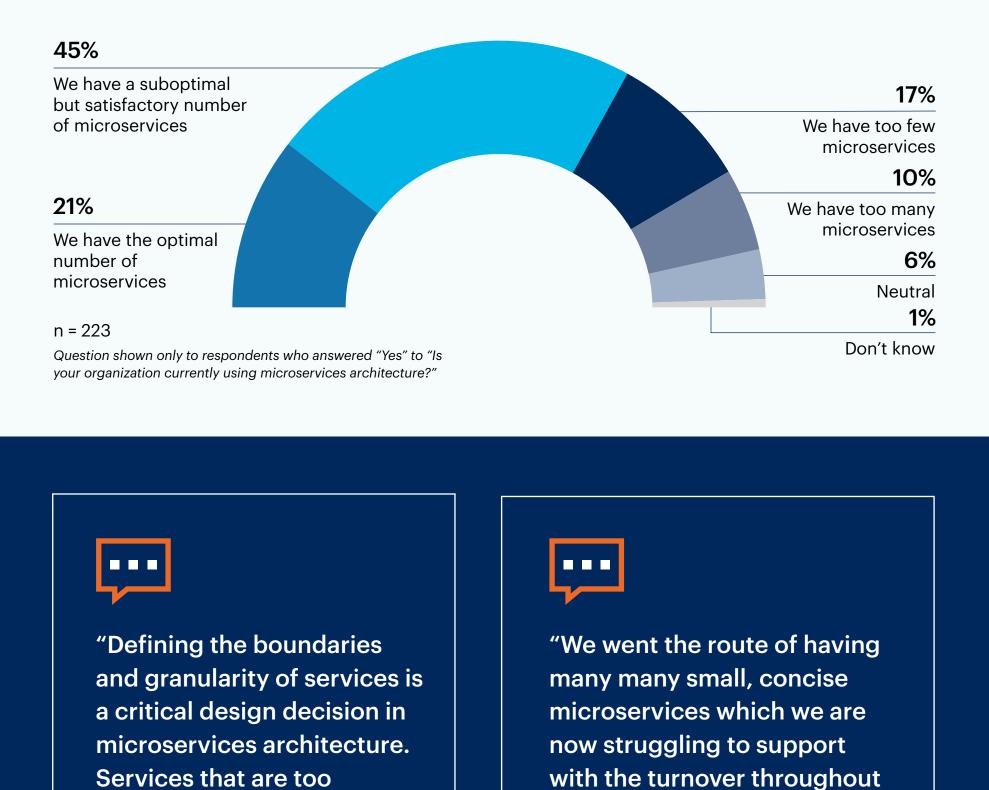


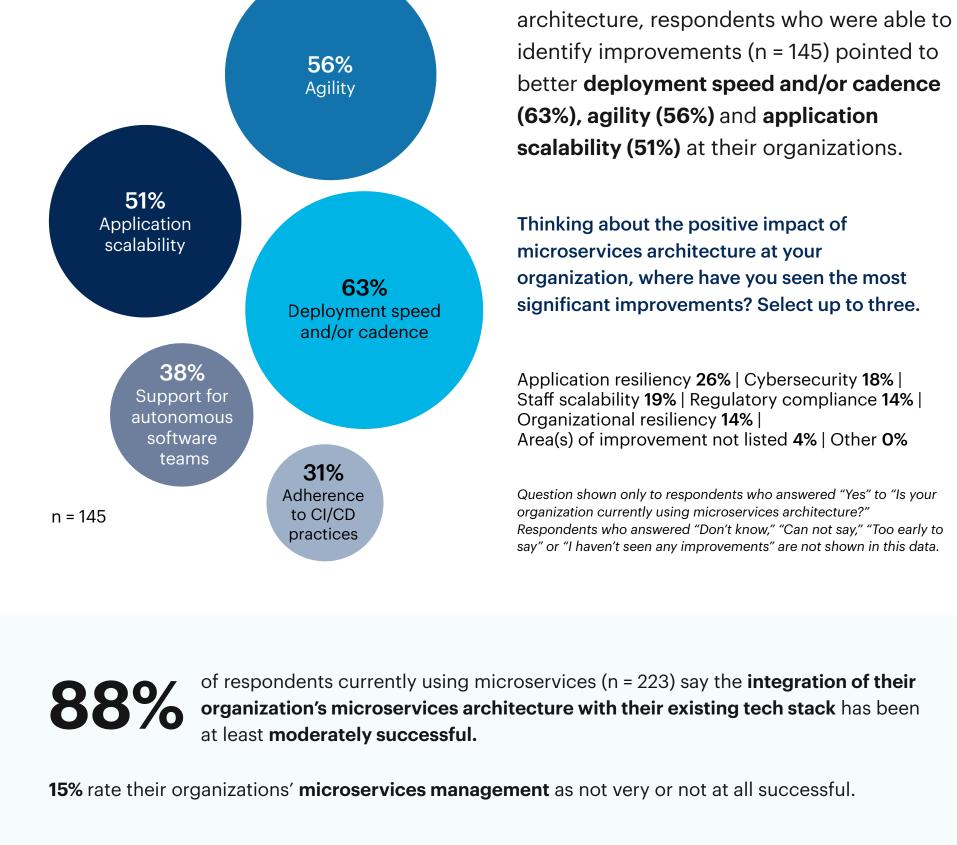
of respondents at organizations using microservices (n = 223) say they

21% say they have an optimal number, and 17% say they have too few.

Thinking about your organization's needs and the resources available for your microservices architecture, how do you feel about the number of microservices currently being managed?

currently manage a suboptimal but satisfactory number of microservices.





How would you rate the success of the following aspects of your organization's microservices architecture?

Not

applicable

Moderately

successful

30%

9%

Not very

2%

Cost-effectiveness

1%

1%

Don't know/

can not say

45%

45%

"It is suitable for some —

but not all — technology

lesson we have learned

- Director, professional services

industry, <1,000 employees

challenges. That is a

the hard way."

61%

of respondents' whose organizations are

have enough resources for microservices

21%

18%

19%

1%

<1%

no change

Moderately decrease

Significantly decrease

using microservices (n = 223) feel they

36%

successful

Mostly

successful

Improved deployment speed is a key benefit, and

integrated microservices with existing tech

many feel that their organizations have successfully

34% 14% 2% 1% 1% 1% 1% 1% 5% 4% Alignment with current data models Microservices management n = 223Question shown only to respondents who answered "Yes" to "Is your organization currently using microservices architecture?"

architecture, while 22% say they do not. 61% 22% Do you feel that you have adequate Yes No resources for microservices architecture? n = 223Question shown only to respondents who answered "Yes" to "Is your organization currently using microservices architecture?" One-quarter (25%) of respondents (n = 223) say their organizations plan to significantly increase the resources allocated to microservices in the next three months, while 39% plan a moderate or slight increase. Less than 3% plan a decrease in resource allocation. In the next three months, is your organization planning to increase or decrease resources allocated to microservices architecture at your organization? Moderately increase **25**% Significantly increase Slightly increase Maintain with **12%** Can not say 3% Slightly decrease Don't know

Most leaders feel they have enough resources for

7%

Don't know

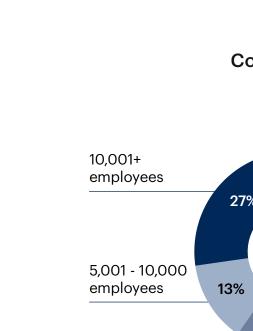
microservices, but many plan to increase allocation

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Region

"Microservice architecture is not a silver bullet. Understanding when

and how to use it is very crucial for successful adoption."



24% 16% Note: May not add up to 100% due to rounding Respondents: 300 IT and software engineering leaders

North America 34%

EMEA 31% Job Level

Manager 27% 38% C-Suite

Director

26%

"Microservices architecture certainly has potential to increase the agility and maintainability of the software we develop. It suits the cloud deployment and scales well with the cloud resources." - Director, healthcare industry, <1,000 employees

Question shown only to respondents who answered "Yes" to "Is your organization currently using microservices architecture?"

Note: May not add up to 100% due to rounding

n = 223

Respondent Breakdown

- VP, finance industry, <1,000 employees

Question: What are your final thoughts on microservices architecture?

۷P 12%

Source: Gartner Peer Community, Microservices Architecture: Have Engineering Organizations Found Success? survey © 2023 Gartner, Inc. and/or its affiliates. All rights reserved.

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Company Size

APAC 35%

43%

<1,001 employees 1,001 - 5,000 employees