

# Digital Transformation Strategies



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Summary Results | November 2021

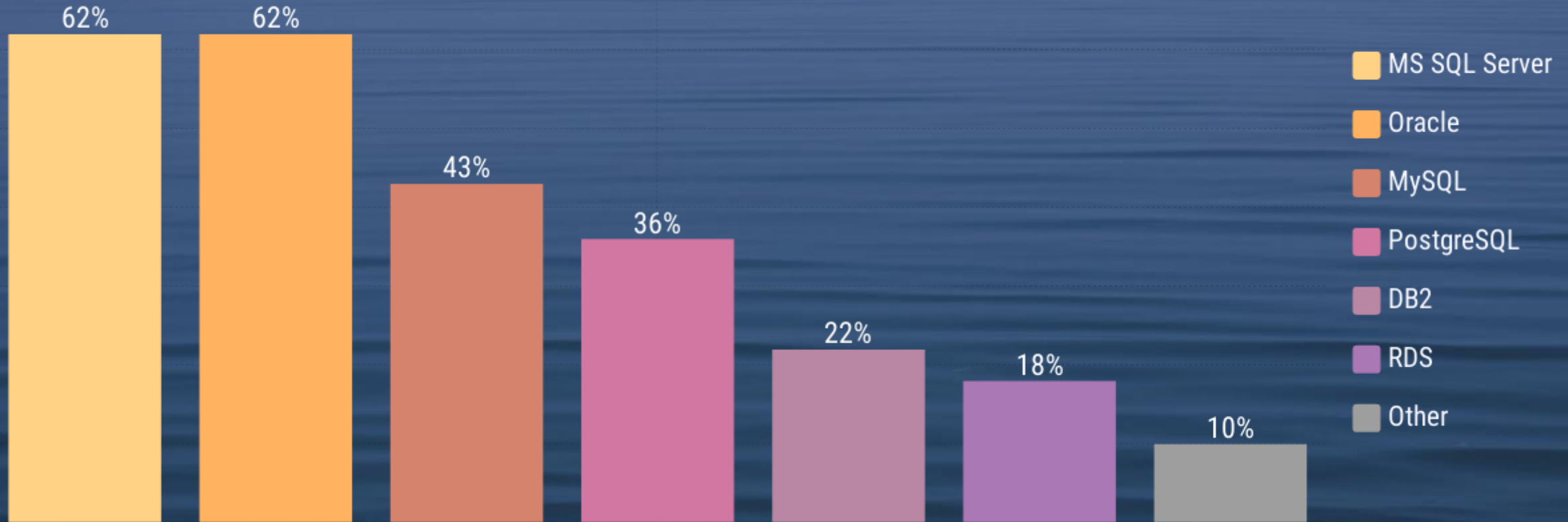
# EXECUTIVE OVERVIEW

Enterprise software development requires high scalability, fast performance, wide availability, and big data capabilities. Anything less means the business will suffer. Is it time to consider new database technology to create applications that satisfy the current and future demands of usability? What are IT leaders considering, in terms of modernizing their database technology?

This survey asks respondents to report:

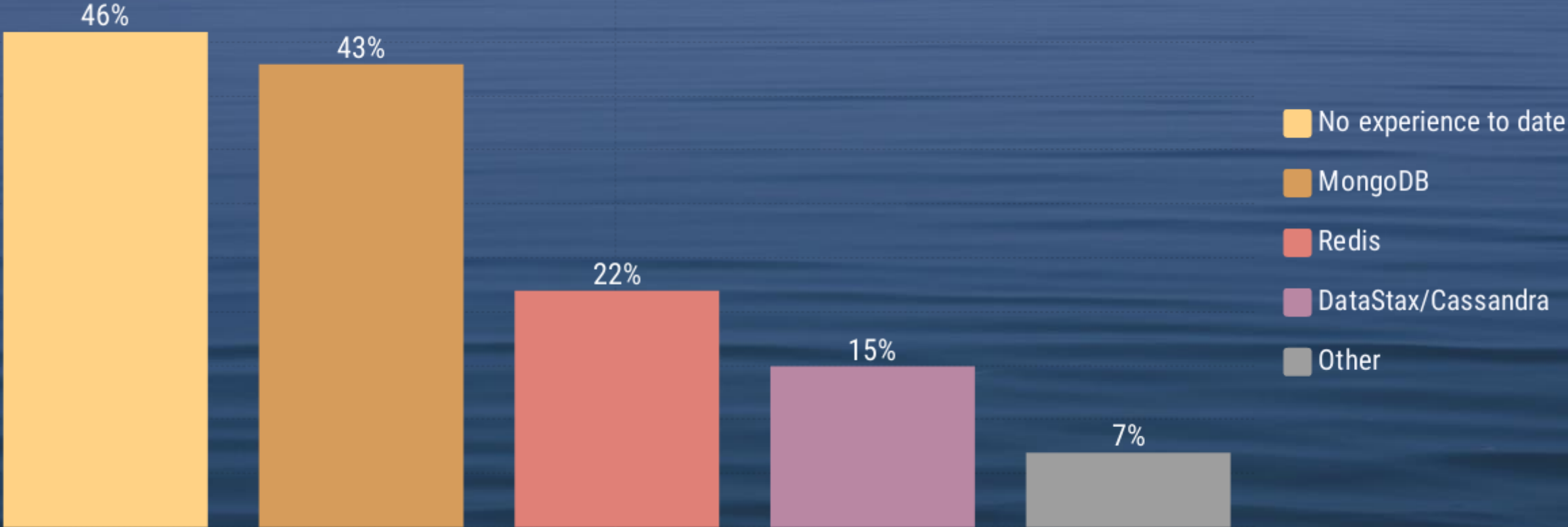
- What tools are they currently using to manage their cloud environment
- What challenges do their software teams encounter that prevent them from developing and scaling applications/software efficiently?
- What capabilities do they need to consider when evaluating new database technology to support your modern, cloud-based applications?

# What relational database platforms do you currently have in place?



*Most respondents (62%) say they use MS SQL servers and/or Oracle for their relational database platforms. Fewer have MySQL (43%) or PostgreSQL (36%) in place.*

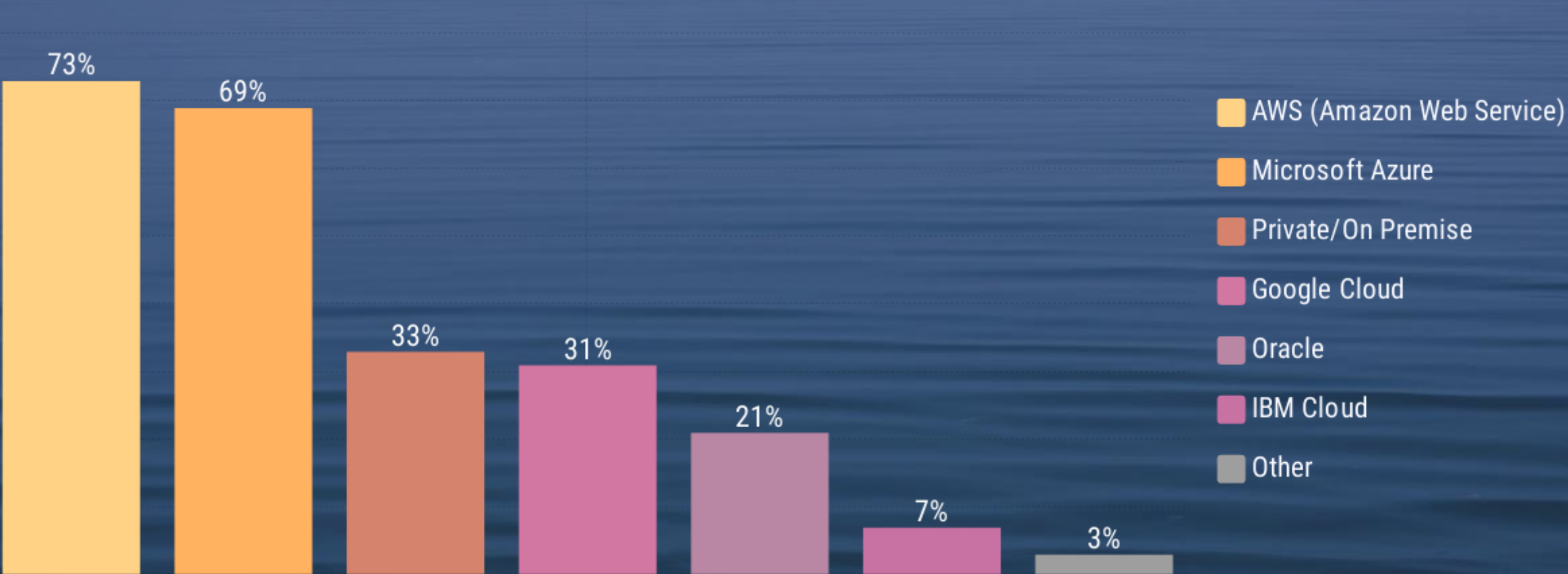
# Do you have experience with any of these NoSQL technologies?



*Although 46% of those surveyed have no experience with NoSQL technologies, almost as many (43%) have experience with MongoDB.*

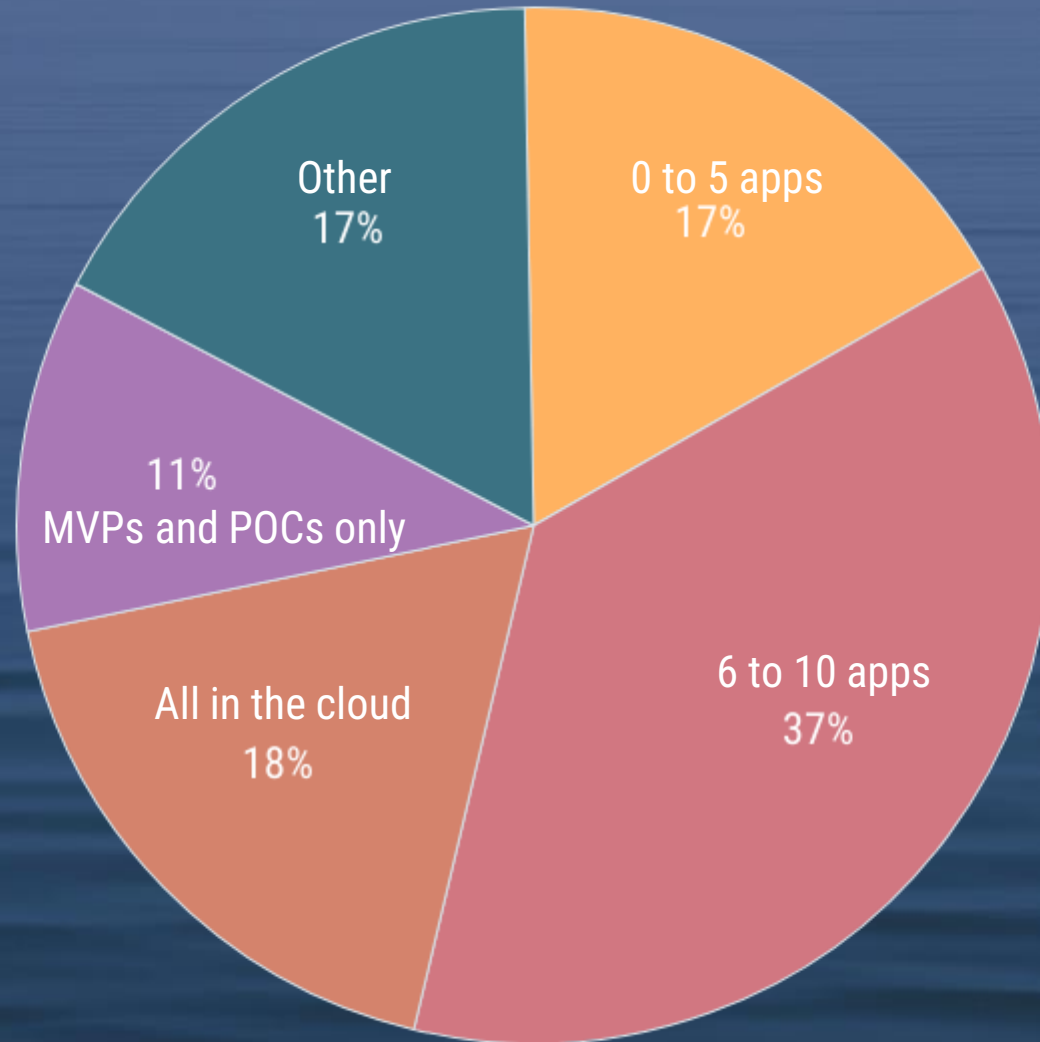


# Which cloud providers do you work with (or plan to work with)?



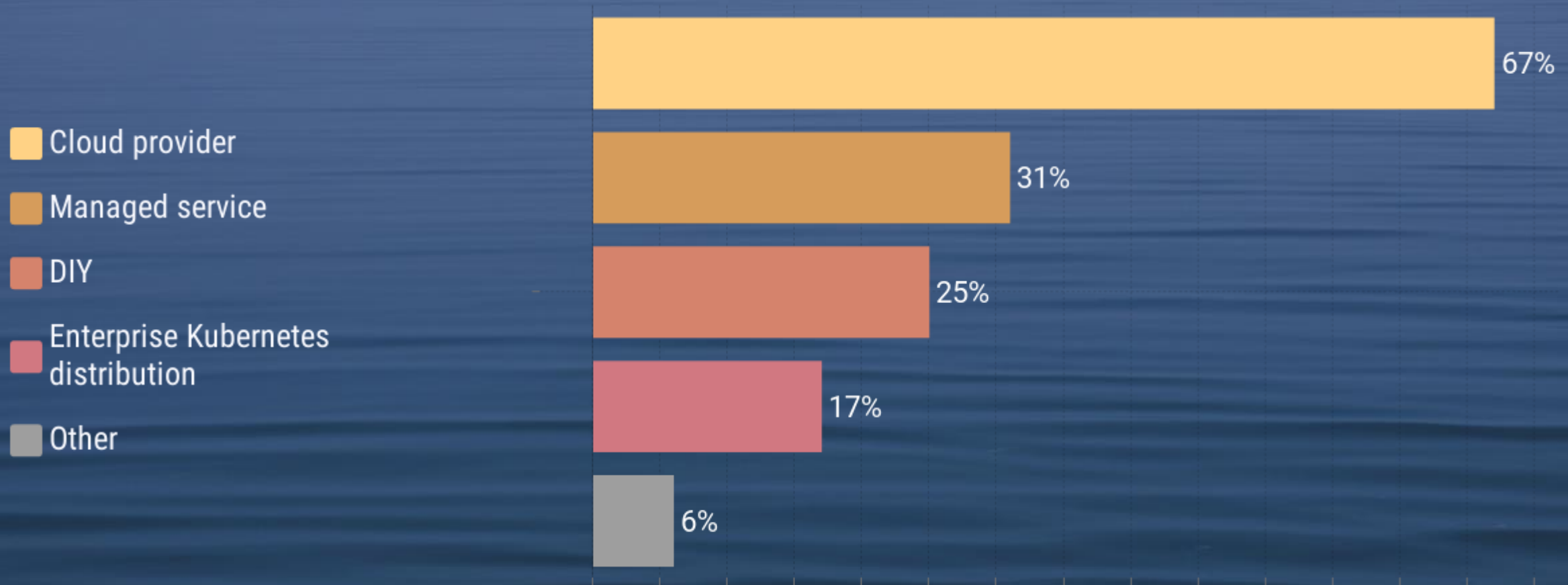
*The majority of respondents use AWS (73%) or Microsoft Azure (69%)—more than twice as many as those who are still on-premise or use any other provider, private or public.*

# What is your current cloud adoption level?



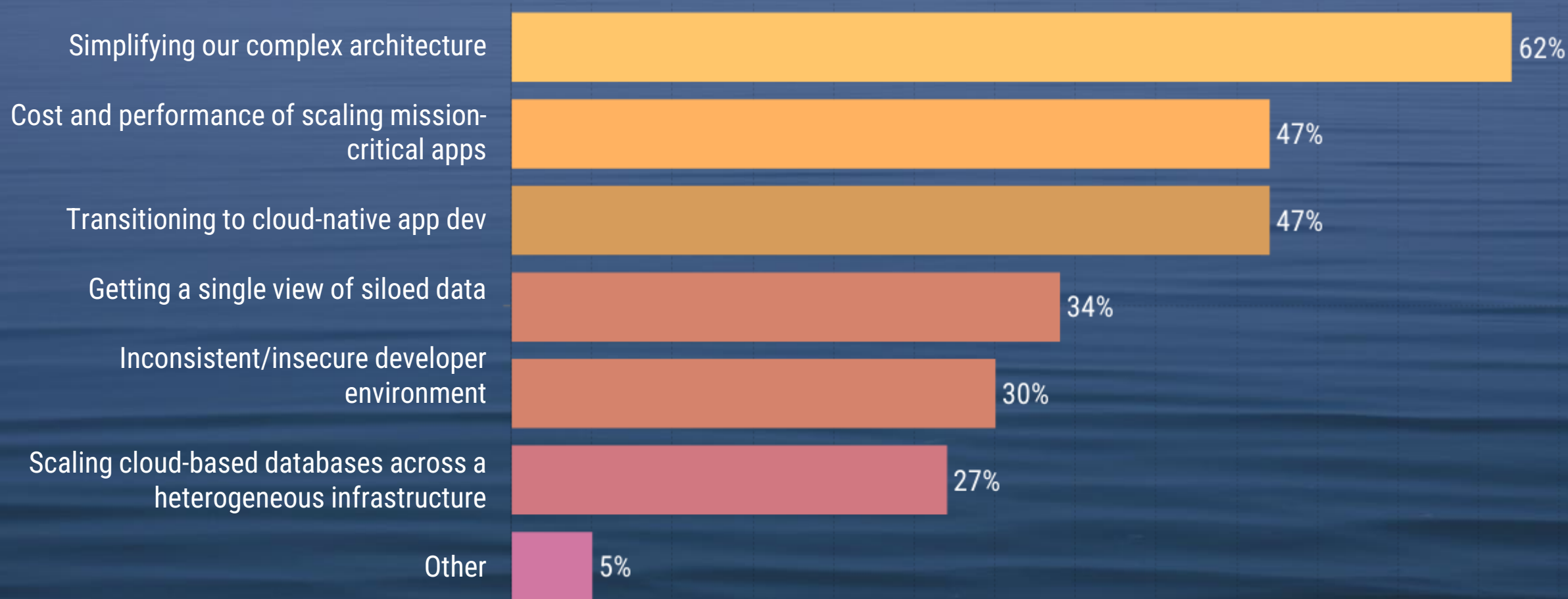
*Respondents' cloud adoption levels vary, from 17% who are barely there (0 to 5 apps) to 37% with up to 10 apps, to 18% who report being "all in". A small number (11%) report having only MVPs and POCs in the cloud.*

# What tools are you currently using to manage your cloud environment?



*Roughly two thirds of respondents use a cloud provider to manage their environment. 31% rely on a managed service arrangement, and one fourth manage it themselves.*

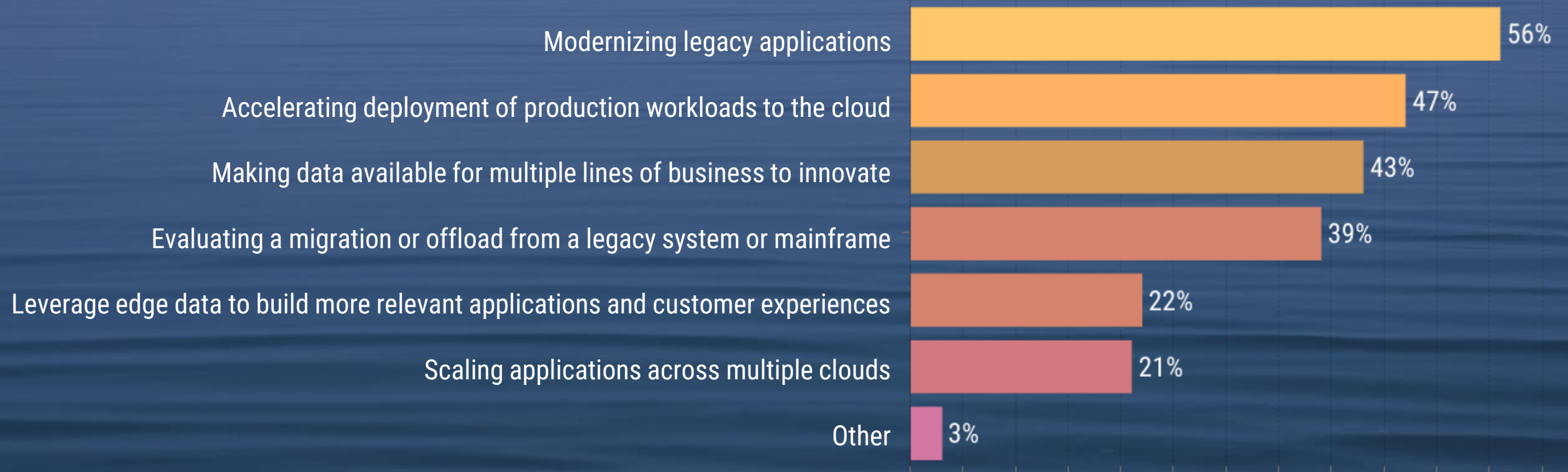
# What are some of your day-to-day challenges in developing and scaling applications?



*The most common challenge among respondents in developing and scaling apps is making their architecture simpler, reported by 62%. Nearly half (47%) cite the high cost and performance issues with scaling their mission-critical apps and transitioning to cloud-native application development.*

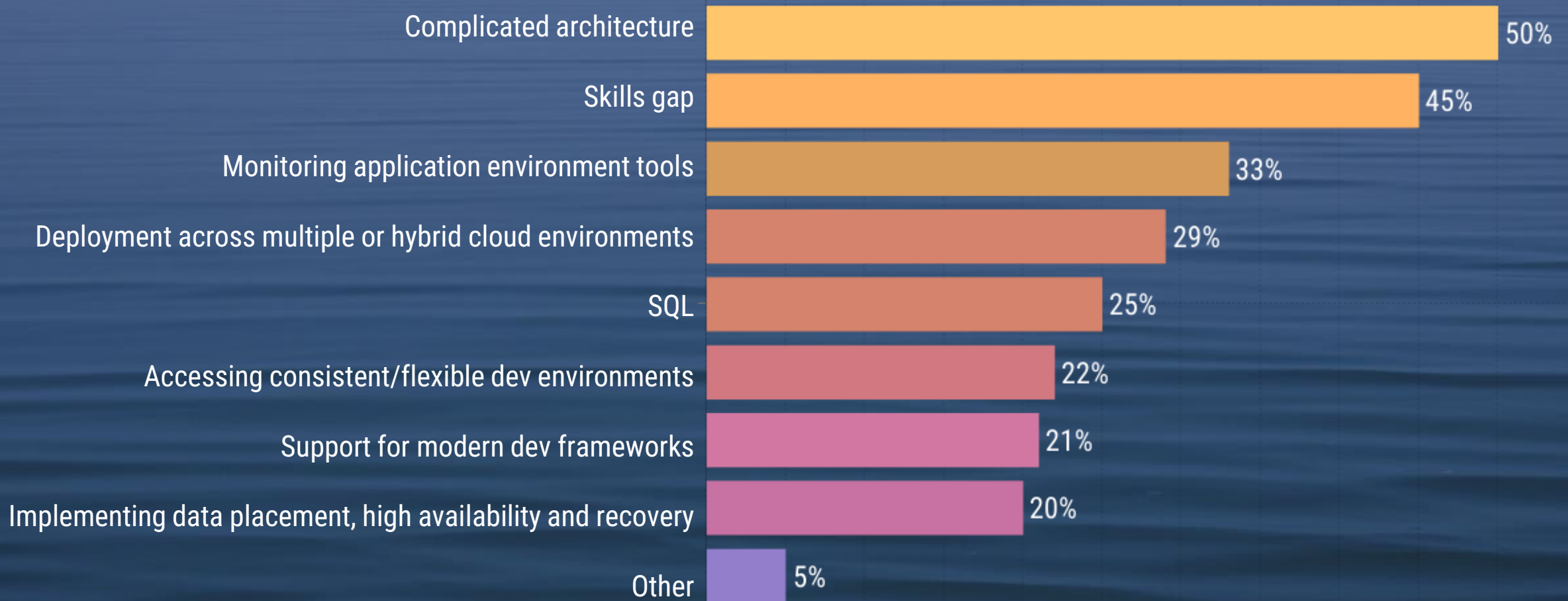


# What are your key initiatives to support application development in the coming year?



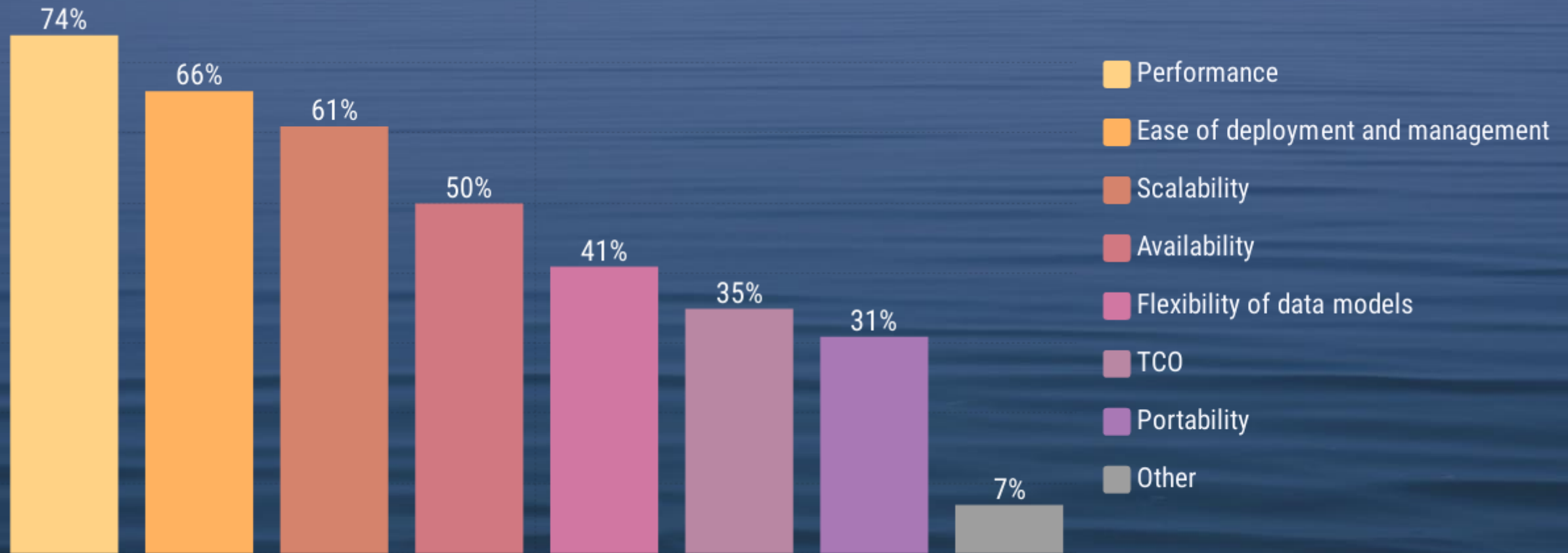
*Eagerness to modernize legacy apps is cited by 56% of respondents as a key near-term initiative. Moving workloads to the cloud more quickly (47%), making data more available across the lines of business (43%), and moving off a legacy system/mainframe (39%) round out the top four initiatives among those surveyed.*

# What are the challenges your software team frequently encounter that prevent them from developing software efficiently?



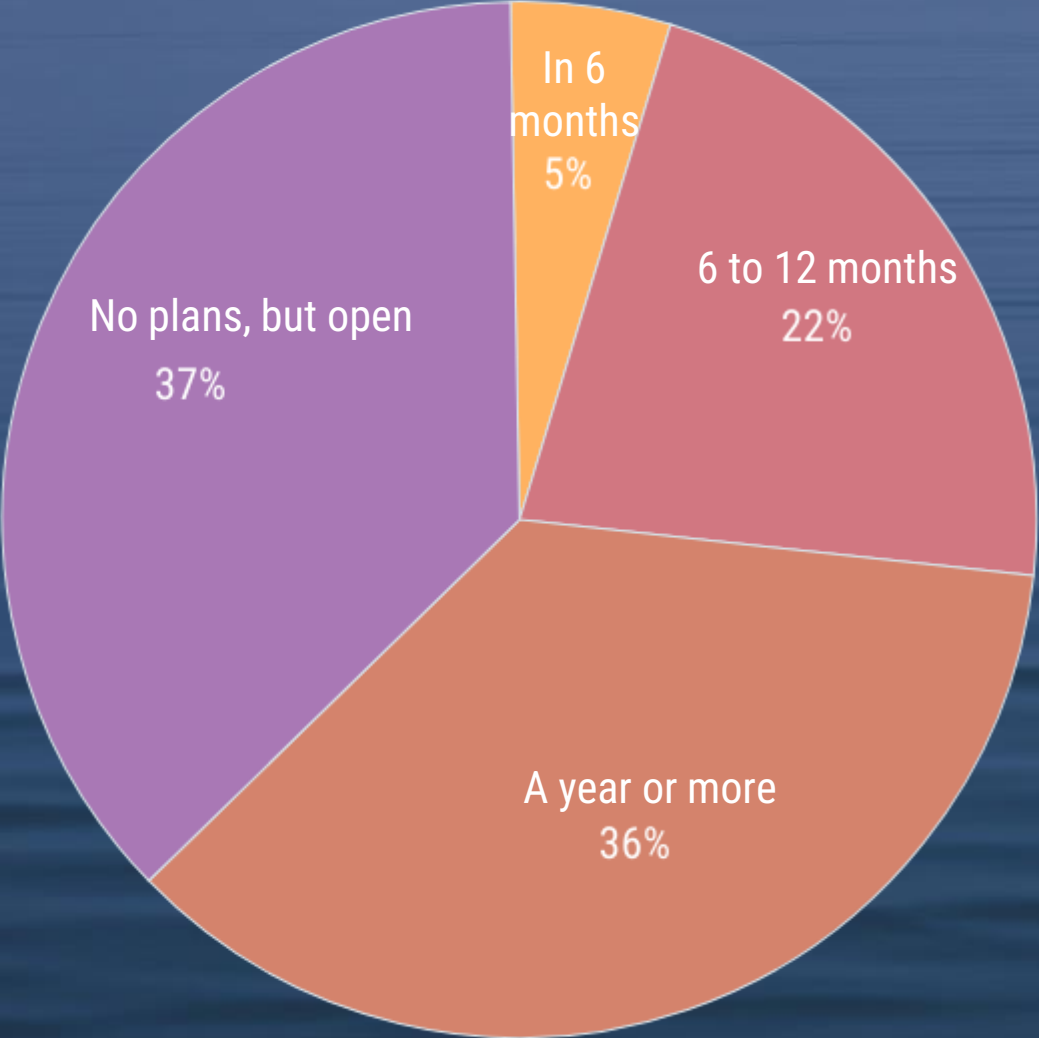
*Complicated architecture is the top complaint half of all respondents say prevents efficient software development. 45% have a skills gap that slows down the process, and a third cite a monitoring tools issue.*

# What is important to consider when evaluating new database technology to support your modern, cloud-based applications?



*At the top of a long list of values to consider when evaluating new database technology is performance, say 74% of respondents. Two thirds want easy deployment and management, 61% say scalability is key, and half cite availability.*

# When do you expect to enhance or reevaluate your current database solution?



- Within 6 months 5%
- In 6 to 12 months 22%
- In a year or more 36%
- No specific plans, but am open to considering a change if I can clearly see the value 37%

*All but 37% have plans to either enhance or reevaluate their database solution within the next 12 months (37%) or later.*





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Red Hat and Couchbase help developers supply highly scalable and reliable database functionality for cloud-based applications and services.

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