



IT TRENDS REPORT 2016: THE HYBRID IT EVOLUTION

SINGAPORE



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IT TRENDS

REPORT 2016:

THE HYBRID IT EVOLUTION

WHAT WE
COVER IN
THE REPORT

Introduction

Key Findings

Recommendations

Full Survey Results



INTRODUCTION



This report not only reveals the hybrid IT reality the vast majority of organisations are experiencing, but also explores the barriers to greater adoption of cloud technology.

We are in the midst of a once-in-a-decade shift in the technology landscape. This reality has become known as hybrid IT: migrating some infrastructure to the cloud, while continuing to maintain some critical services onsite. At the centre of this shift is the need to ensure always-on application performance—regardless of location.

The rise of business-critical applications has created this heightened awareness for performance. End-users expect a seamless experience, keeping them blissfully unaware of the changes happening in their IT environments. For IT professionals, their job has become increasingly pressured, complex and forever changed.

This report not only reveals the hybrid IT reality the vast majority of organisations are experiencing, but also explores the barriers to greater adoption of cloud technology, as well as the challenges of migrating to the cloud and managing the performance of hybrid IT environments.



KEY FINDINGS



IT infrastructures have evolved from traditional on-premises-only to a hybrid strategy that links internal and external IT services driven by the existence of the cloud.

IT professionals are faced with a dual mandate: increase efficiency through cloud services while also ensuring critical systems, databases and applications are secure.

92% of IT professionals say adopting cloud technologies is important to their organisations' long-term business success; **38%** say it is extremely important.

Only 43% estimate that half or more of their organisations' total IT infrastructure will be in the cloud within the next 3-5 years.

62% say it is unlikely that all of their organisations' infrastructure will ever be migrated to the cloud.

The overall number of businesses that have not migrated anything to the cloud went from **14% in 2015** to just **8% in 2016**.

Top three hybrid IT benefits*:

- 1) Increased infrastructure flexibility/agility
- 2) Infrastructure cost-reduction
- 3) Relieving internal IT personnel of day-to-day management of some infrastructure

77% say security is the biggest challenge associated with managing current hybrid IT environments.

Top three barriers to greater cloud adoption*:

- 1) Security/compliance concerns
- 2) The need to support legacy systems
- 3) Convincing business decision makers of the need and/or benefit

Top three areas of infrastructure already migrated to the cloud:

- 1) Applications
- 2) Storage
- 3) Databases

Top three priorities for continued or future migration*:

- 1) Applications
- 2) Storage
- 3) Databases

*By weighted rank

IT professionals require new skills, tools and resources to successfully drive the hybrid IT migration forward and enable their organisations to better meet business objectives.

Only 22% are certain their IT organisations currently have adequate resources to manage a hybrid IT environment.

Top five skills needed to better manage hybrid IT environments:

- 1) Hybrid IT monitoring/management tools and metrics
- 2) Vendor management
- 3) Distributed architectures
- 4) Application migration
- 5) Service-oriented architectures

50% feel they have the level of support needed from leadership and the organisation as a whole to develop/improve skills needed to better manage hybrid IT environments.



RECOMMENDATIONS



As illustrated in the study's findings, IT professionals need to arm themselves with a new set of skills, products and resources to succeed in the hybrid IT era. They should consider the following recommendations:

ESTABLISH AN END-USER FOCUS AND SERVICE ORIENTATION

The ultimate goal of modern IT is to deliver greater Quality-of-Service (QoS) for end-users to ensure business productivity. To that end, minimizing friction across departmental silos will speed updates, changes, deployments and time-to-resolution for problems, all of which deliver a better end-user experience. IT professionals operating in hybrid IT environments should consider leveraging the principles of a DevOps approach to achieve faster and more provisioning choices, greater agility and organisational efficiency. Doing so will enable them to quickly make updates and changes to infrastructure, which makes IT services, whether on-premises or in the cloud, more agile, lean and scalable.

OPTIMISE VISIBILITY

With both on-premises and cloud resources to manage in a hybrid IT environment, a management and monitoring toolset that surfaces a single point of truth across those platforms is essential. The normalisation of metrics, alerts and other collected data from applications and workloads, regardless of their location, will enable a more efficient approach to remediation, troubleshooting and optimisation.

APPLY MONITORING AS A DISCIPLINE

In a hybrid IT world rife with new complexities, monitoring can no longer be an afterthought. By establishing monitoring as a core IT function (a.k.a. monitoring as a discipline), organisations can benefit from a much more proactive IT management strategy, while also streamlining infrastructure performance, cost and security.

IMPROVE BUSINESS SAVVY

As more IT services become provided by vendors, IT professionals must improve upon the following trifecta: business savvy for contract negotiation, technical expertise to understand and use the available cloud services and project management. These will all require the ability to effectively manage project budgets, workflows and deadlines; dissect terms and conditions; and understand service-level agreements.

FOCUS ON DEVELOPING OR IMPROVING KEY TECHNICAL SKILLS AND KNOWLEDGE

Today's IT professionals need to reach across traditional roles and become polymaths in order to be successful in the hybrid IT world as they pivot across multiple domains. The most important skills and knowledge IT professionals need to develop or improve to successfully manage hybrid IT environments are service-oriented architectures, automation, vendor management, application migration, distributed architectures, API and hybrid IT monitoring and management tools and metrics.

Learn more about how SolarWinds can help IT professionals better monitor and manage their infrastructure from on-premises to the cloud [here](#).



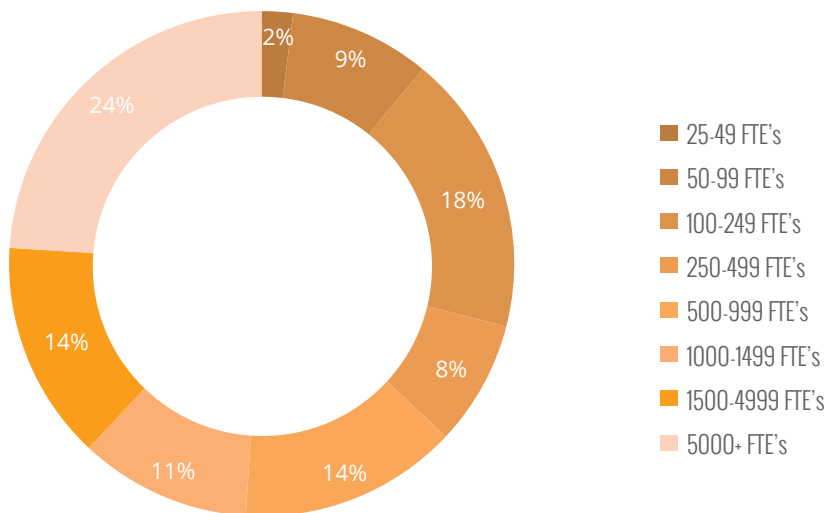


FULL SURVEY RESULTS

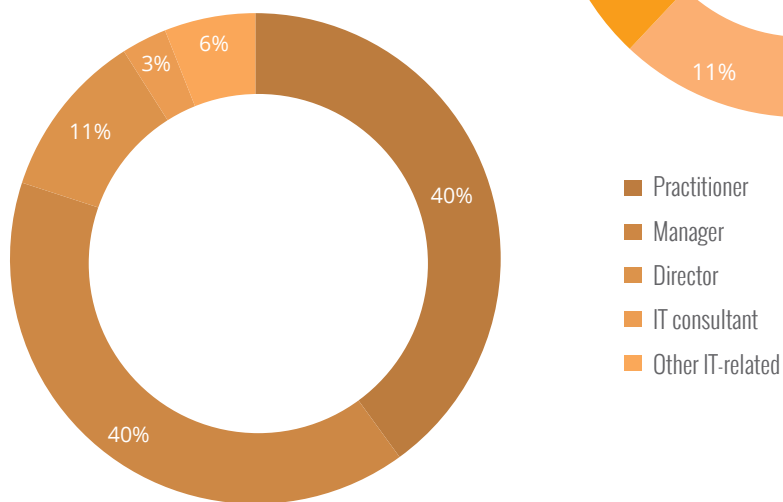
DEMOGRAPHICS

100 IT practitioners, managers and directors in Singapore from small, mid-size and enterprise companies participated in a December 2015 online survey.

SIZE OF COMPANY
number of employees

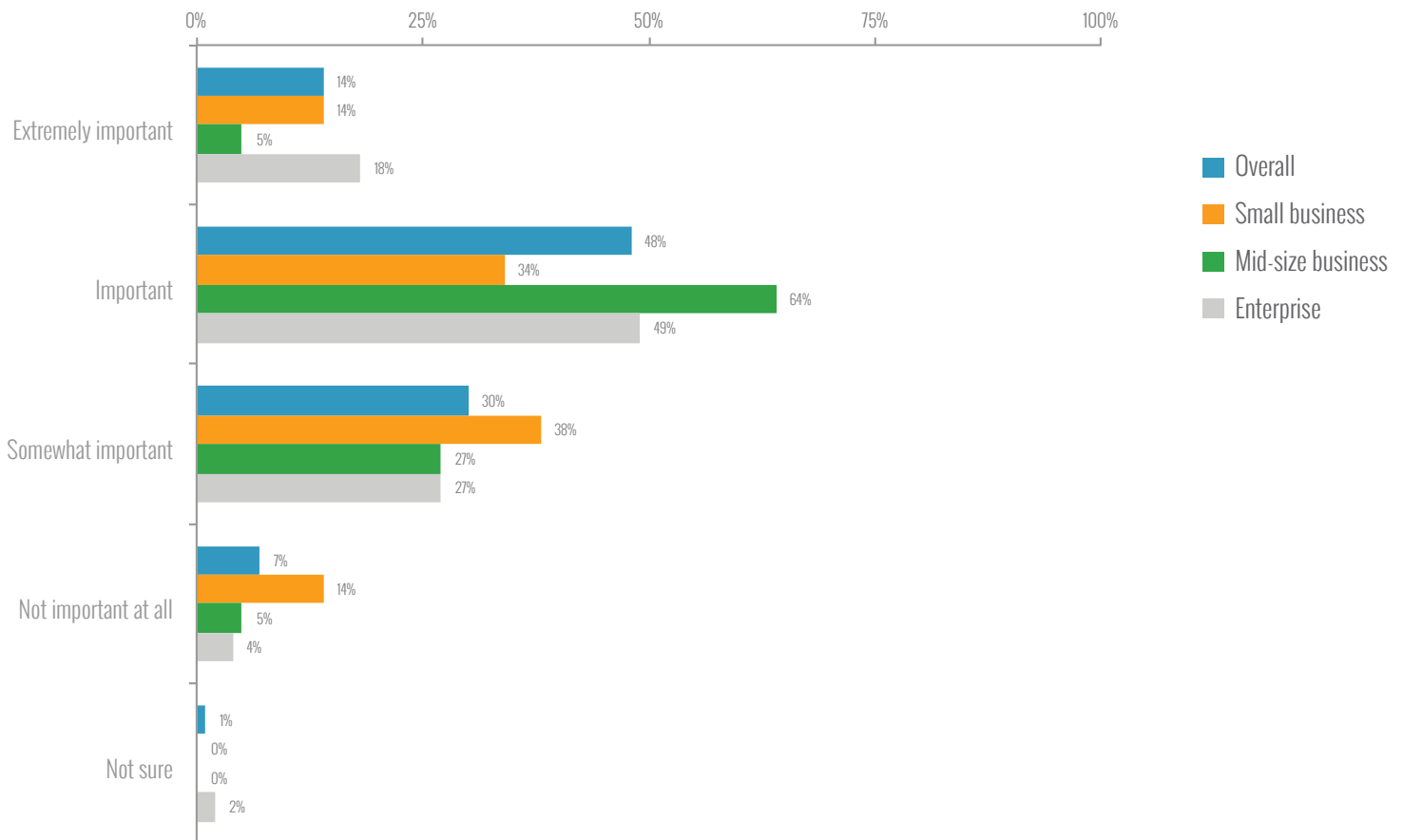


IT PRO'S ROLE



BENEFITS & BARRIERS TO ADOPTING CLOUD

IMPORTANCE OF ADOPTION



SURVEY QUESTION:

In general, how important is adopting (the process of acquiring and implementing) cloud technologies to your organisation's long-term business success?

BENEFITS & BARRIERS TO ADOPTING CLOUD

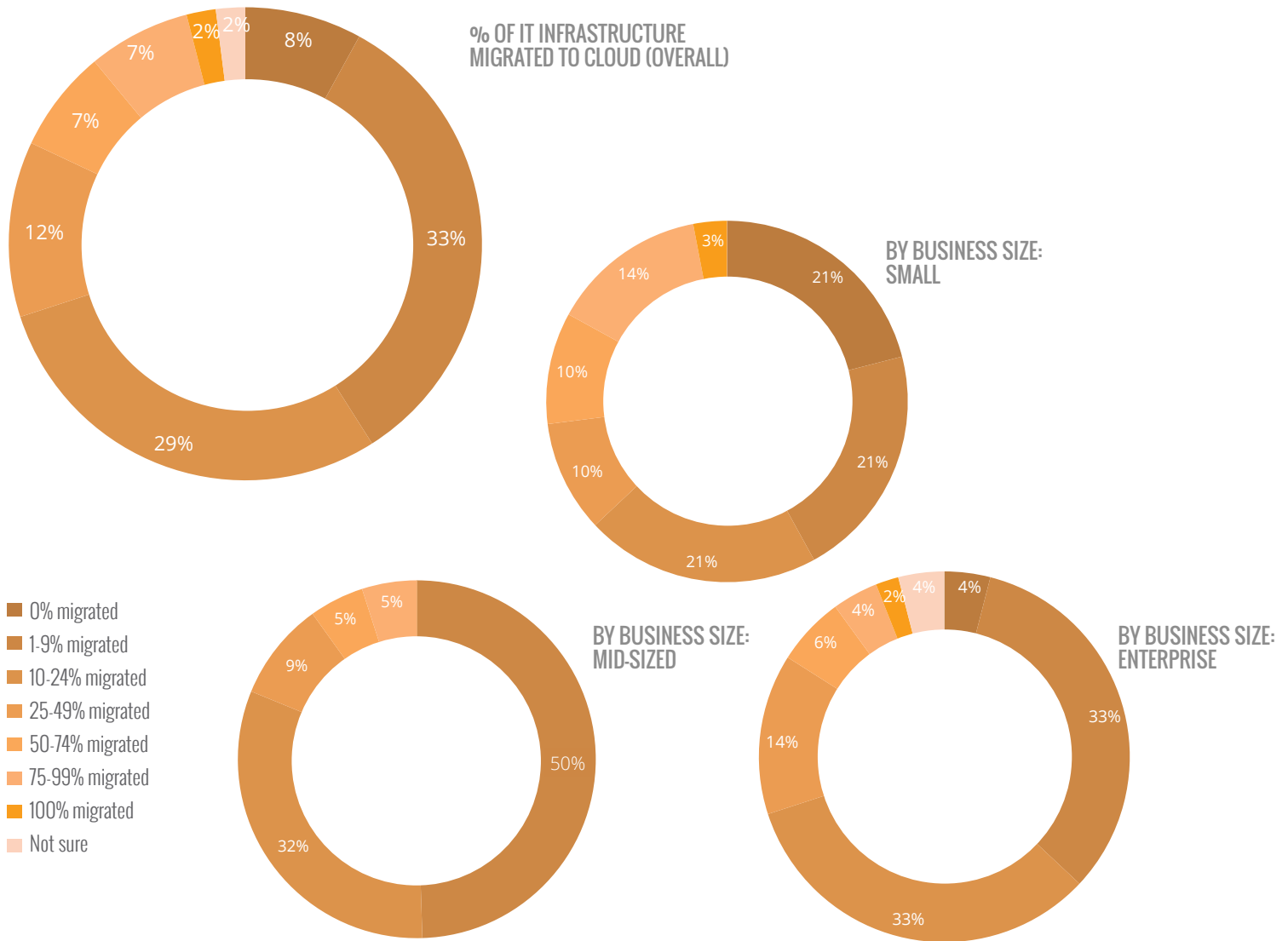
FIVE BIGGEST BENEFITS



SURVEY QUESTION:

What do you feel are the five biggest benefits of adopting cloud technologies?

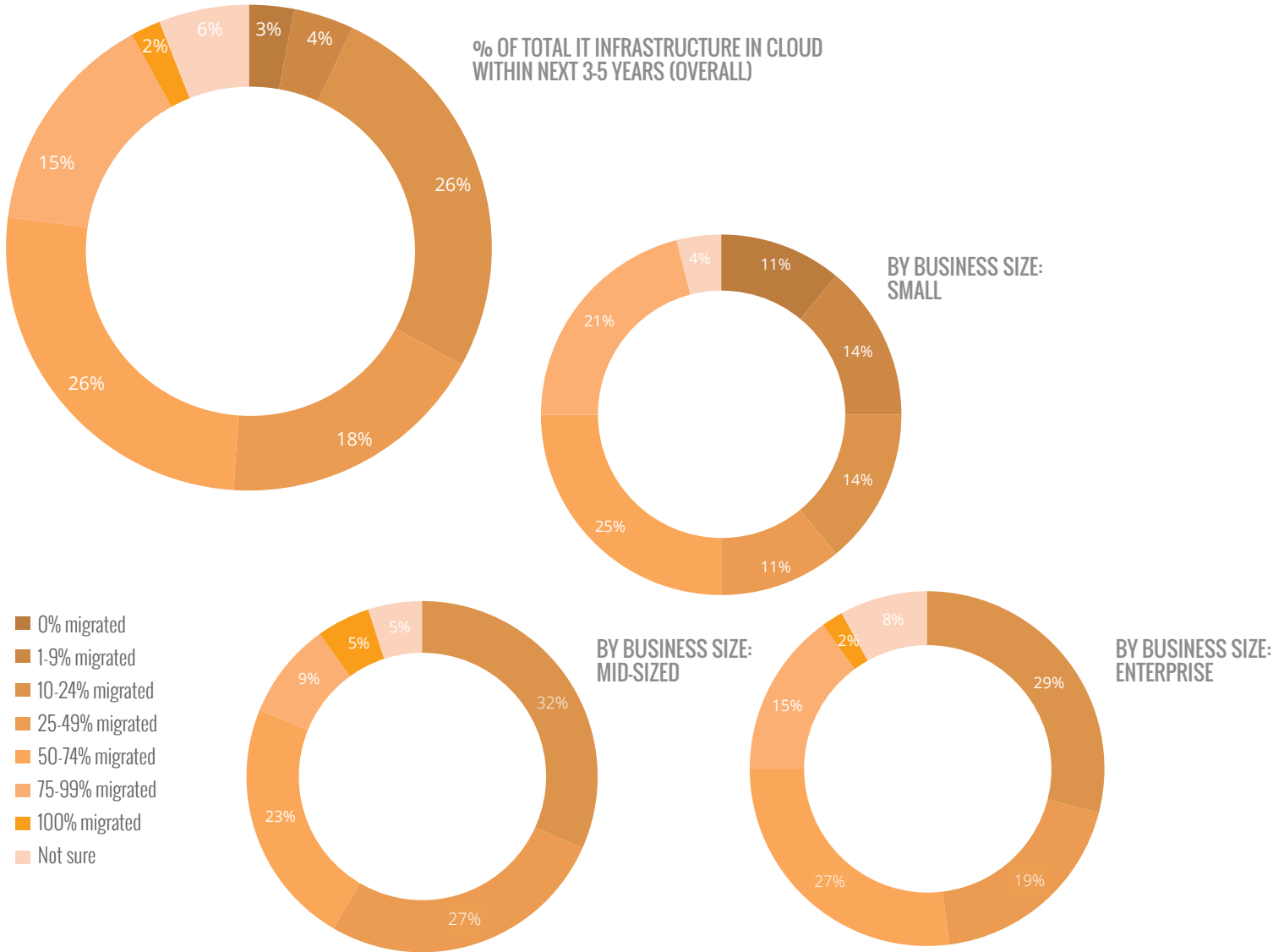
BENEFITS & BARRIERS TO ADOPTING CLOUD INFRASTRUCTURE MIGRATION



SURVEY QUESTION:

What is your best estimate of the percentage of your organisation's IT infrastructure that has already been migrated to the cloud (public or private)?

BENEFITS & BARRIERS TO ADOPTING CLOUD INFRASTRUCTURE FORECAST

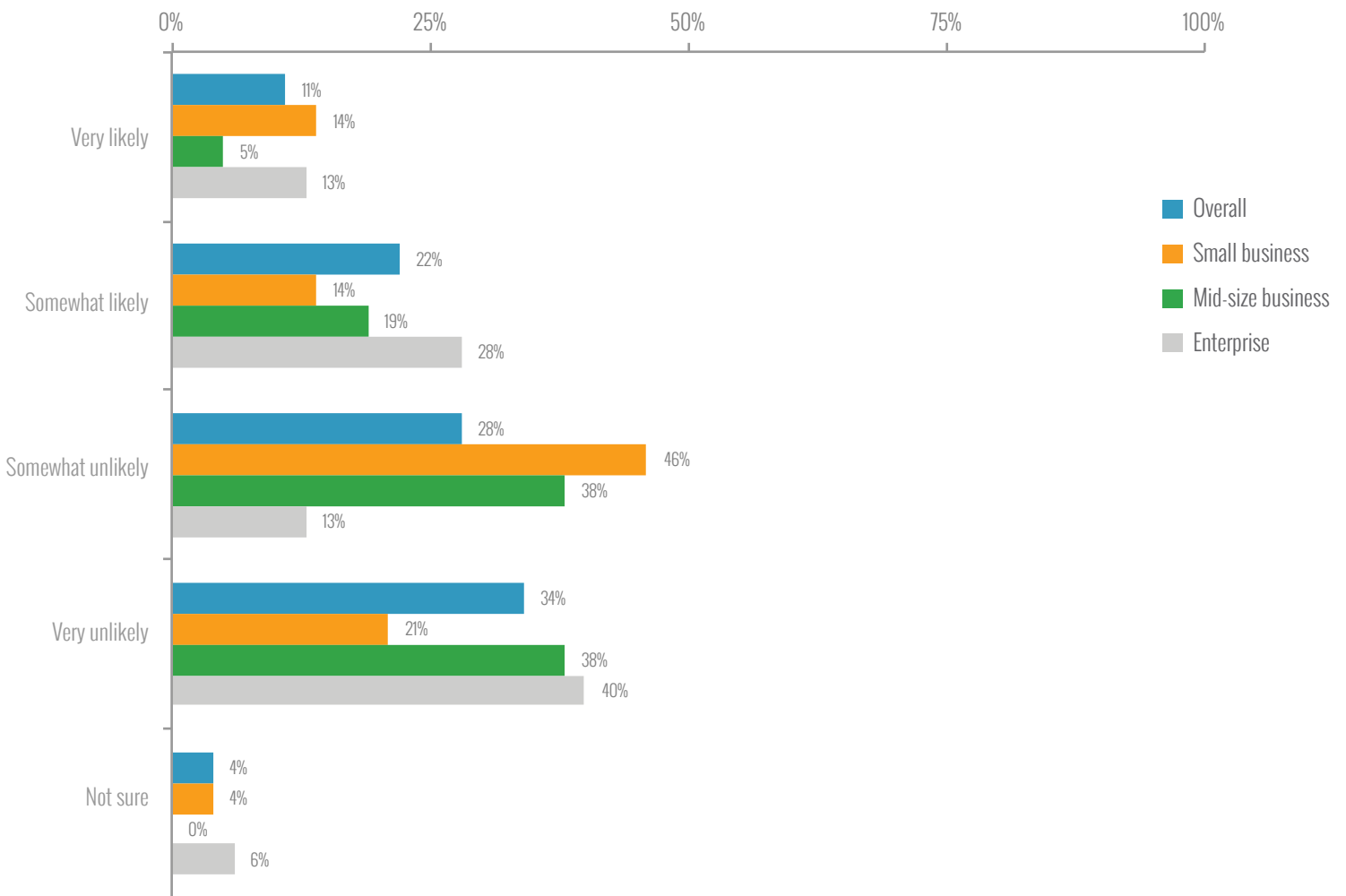


SURVEY QUESTION:

Within the next 3-5 years, what is your best estimate of the total percentage of your organisation's IT infrastructure that will be in the cloud (public or private)?

BENEFITS & BARRIERS TO ADOPTING CLOUD

LIKELIHOOD OF MIGRATING ALL TO CLOUD

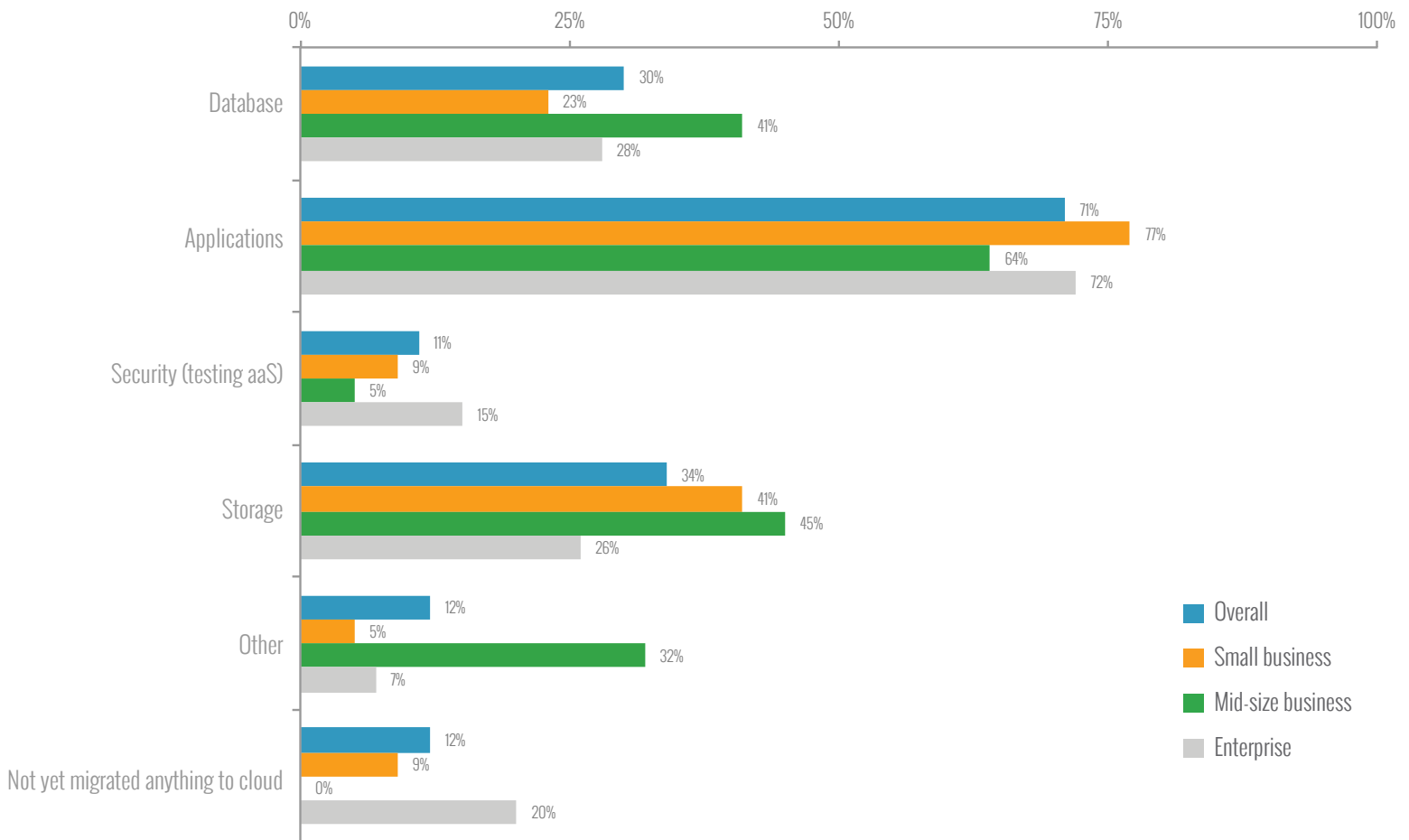


SURVEY QUESTION:

How likely is your organisation to migrate its entire IT infrastructure to the cloud at some point in the future?

BENEFITS & BARRIERS TO ADOPTING CLOUD

AREAS OF IT INFRASTRUCTURE MIGRATED

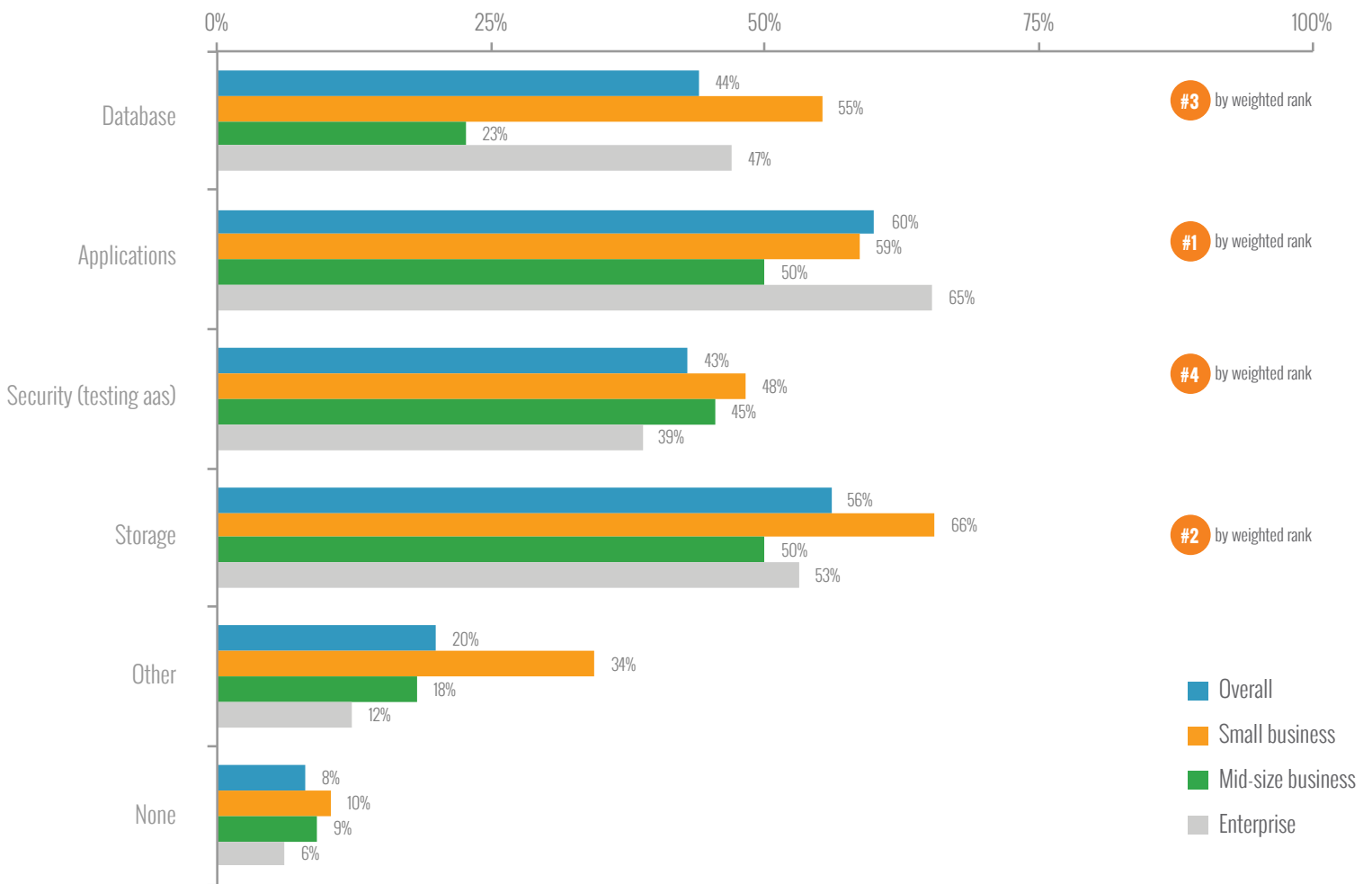


SURVEY QUESTION:

Which area(s) of your organisation's IT infrastructure have already been migrated to the cloud (public or private)?

BENEFITS & BARRIERS TO ADOPTING CLOUD

PRIORITIES FOR FUTURE MIGRATION

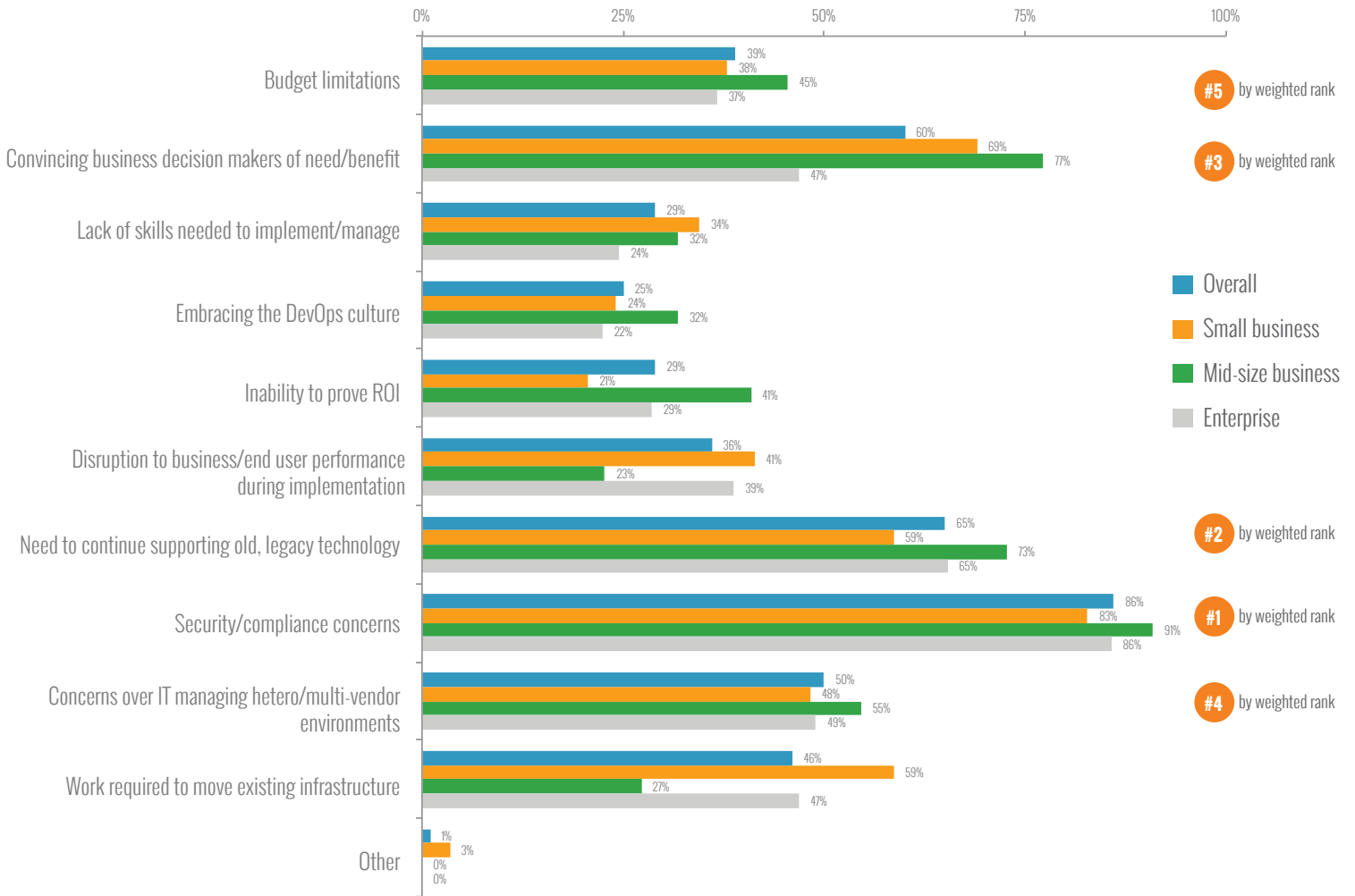


SURVEY QUESTION:

For those area(s) of your organisation's IT infrastructure that have not been migrated to the cloud, which have the highest priority for future migration to the cloud?

BENEFITS & BARRIERS TO ADOPTING CLOUD

FIVE BIGGEST BARRIERS TO CLOUD ADOPTION

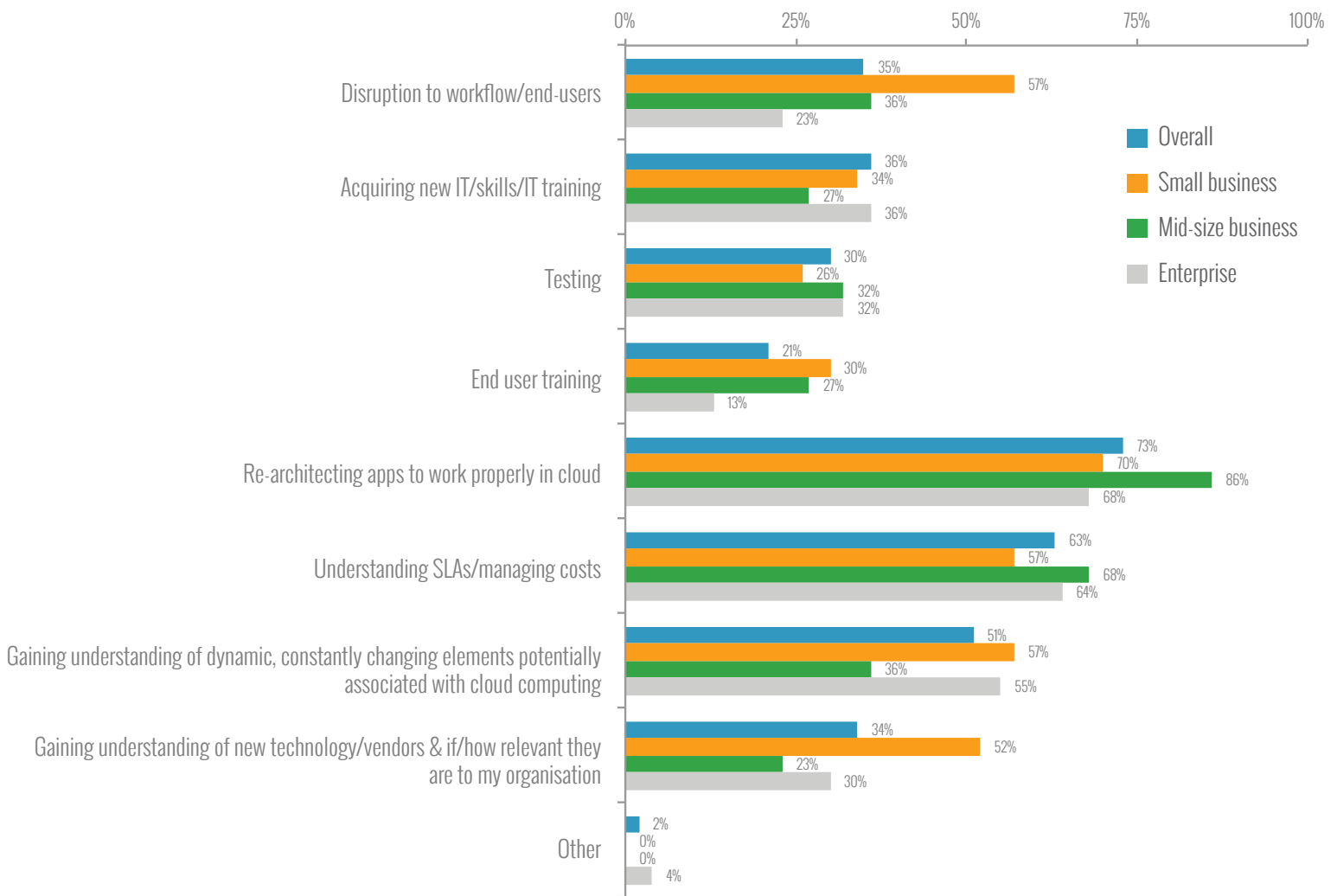


SURVEY QUESTION:

What are/were your organisation's five biggest barriers to adoption of cloud technologies?

CHALLENGES OF MIGRATING TO CLOUD

BIGGEST CHALLENGES FACED WHEN MIGRATING

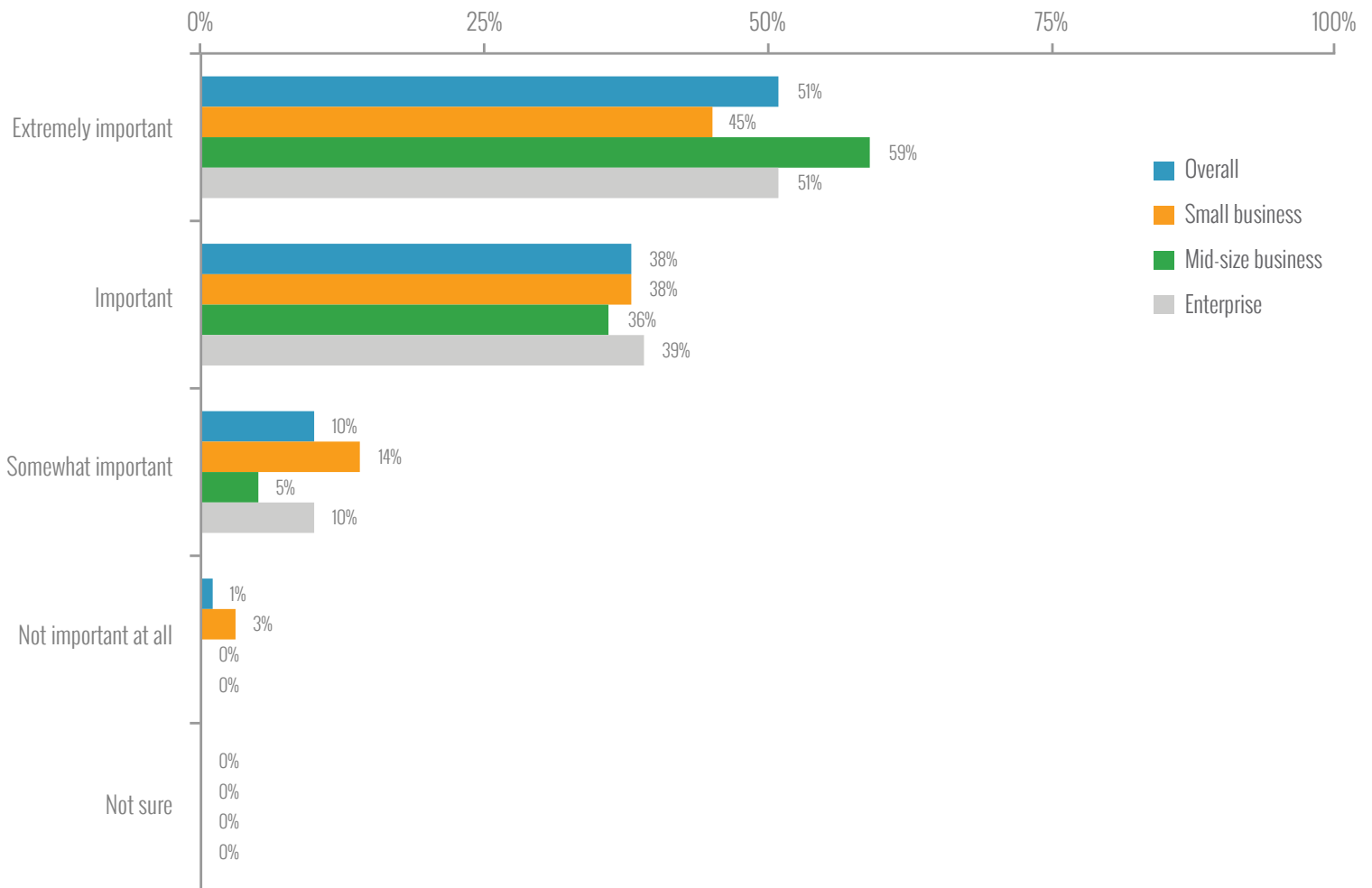


SURVEY QUESTION:

Which of the following are the biggest challenges your organisation experienced when migrating infrastructure to the cloud?

CHALLENGES OF MIGRATING TO CLOUD

IMPORTANCE OF WORKING WITH BUSINESS LEADERS

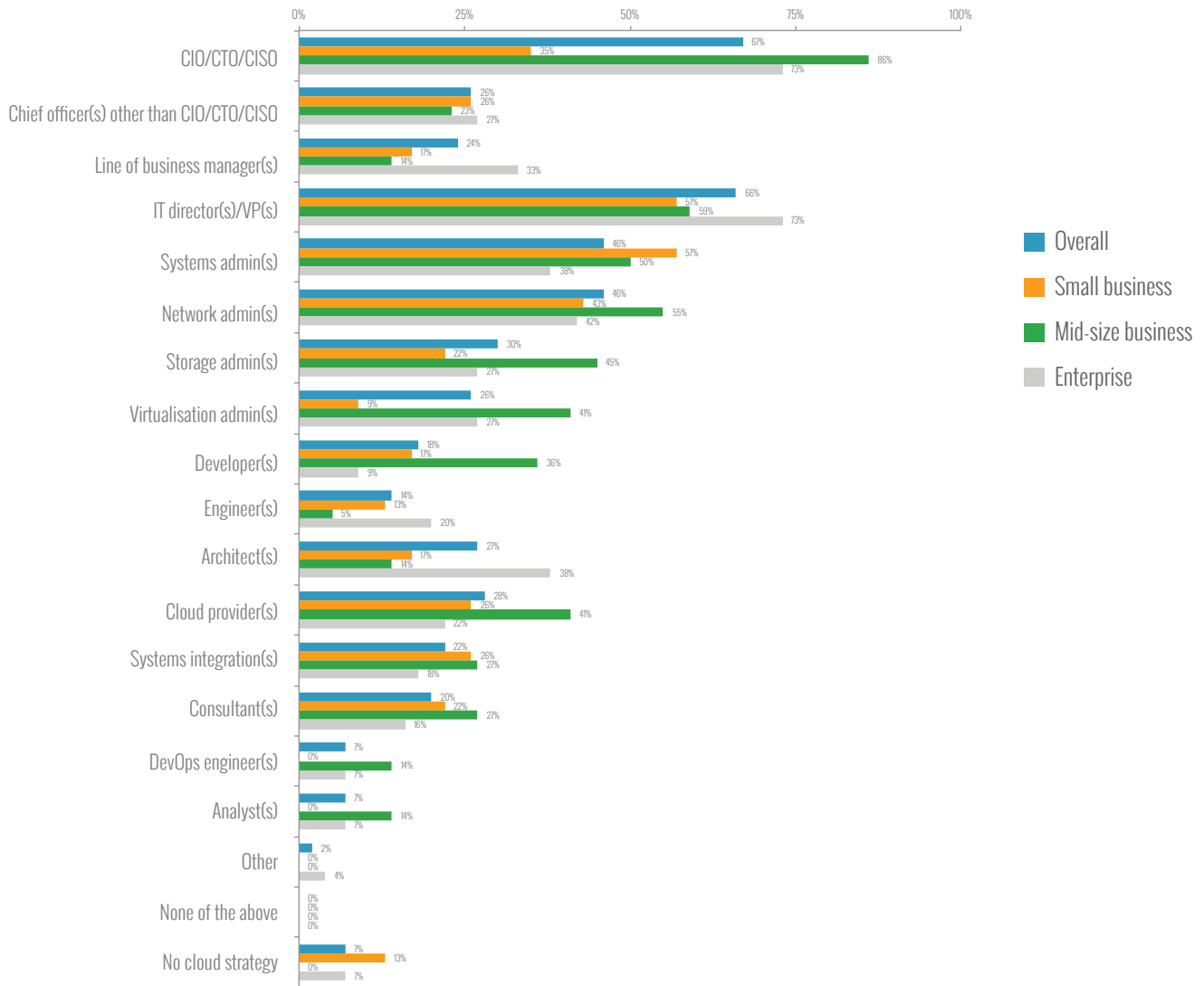


SURVEY QUESTION:

How important is it to work with business executive leaders when developing and executing a cloud strategy?

CHALLENGES OF MIGRATING TO CLOUD

THOSE INVOLVED IN DEVELOPING CLOUD STRATEGY

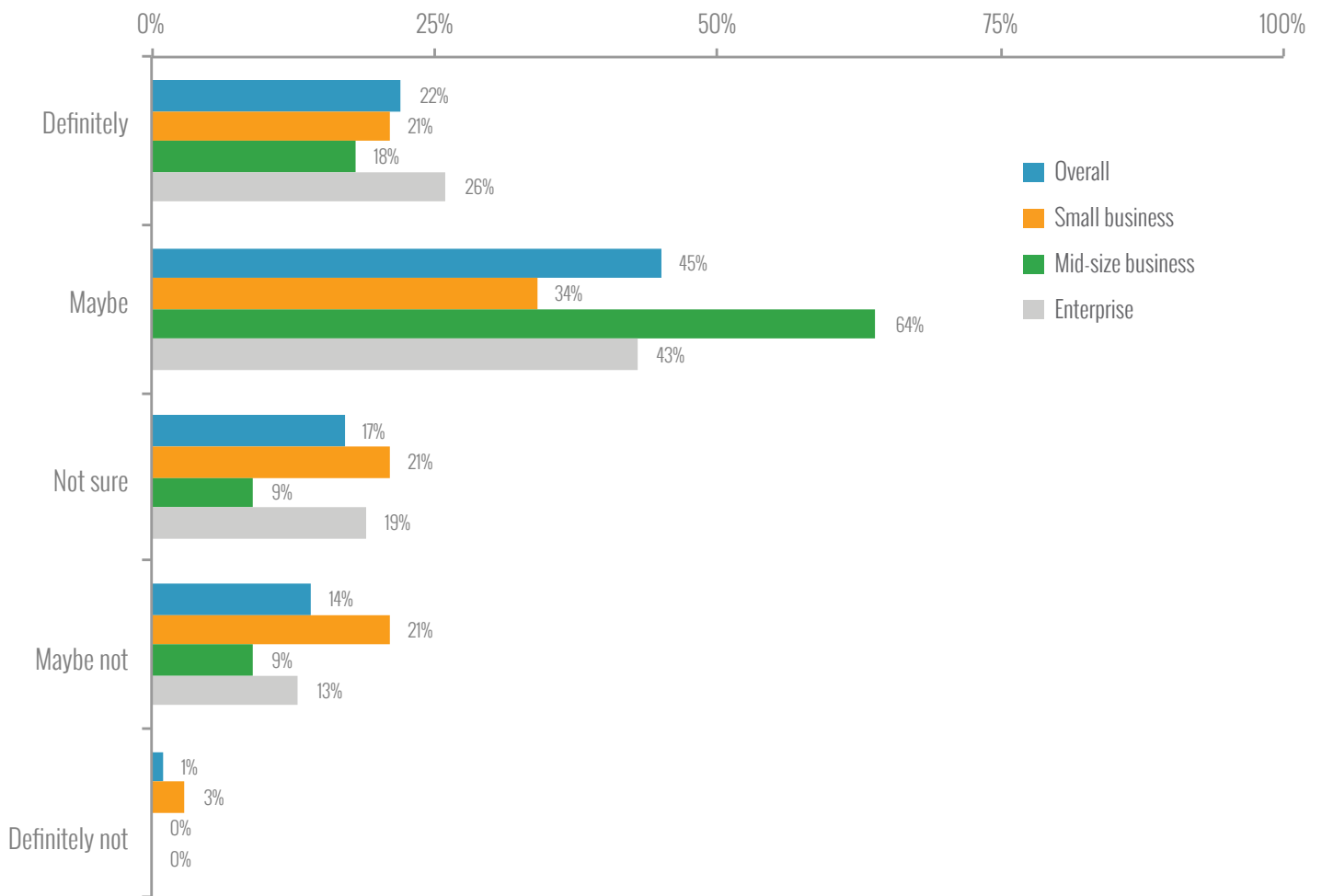


SURVEY QUESTION:

Who was involved in developing your organisation's cloud strategy?

REALITIES OF MANAGING HYBRID IT

RESOURCES TO MANAGE HYBRID IT ENVIRONMENTS

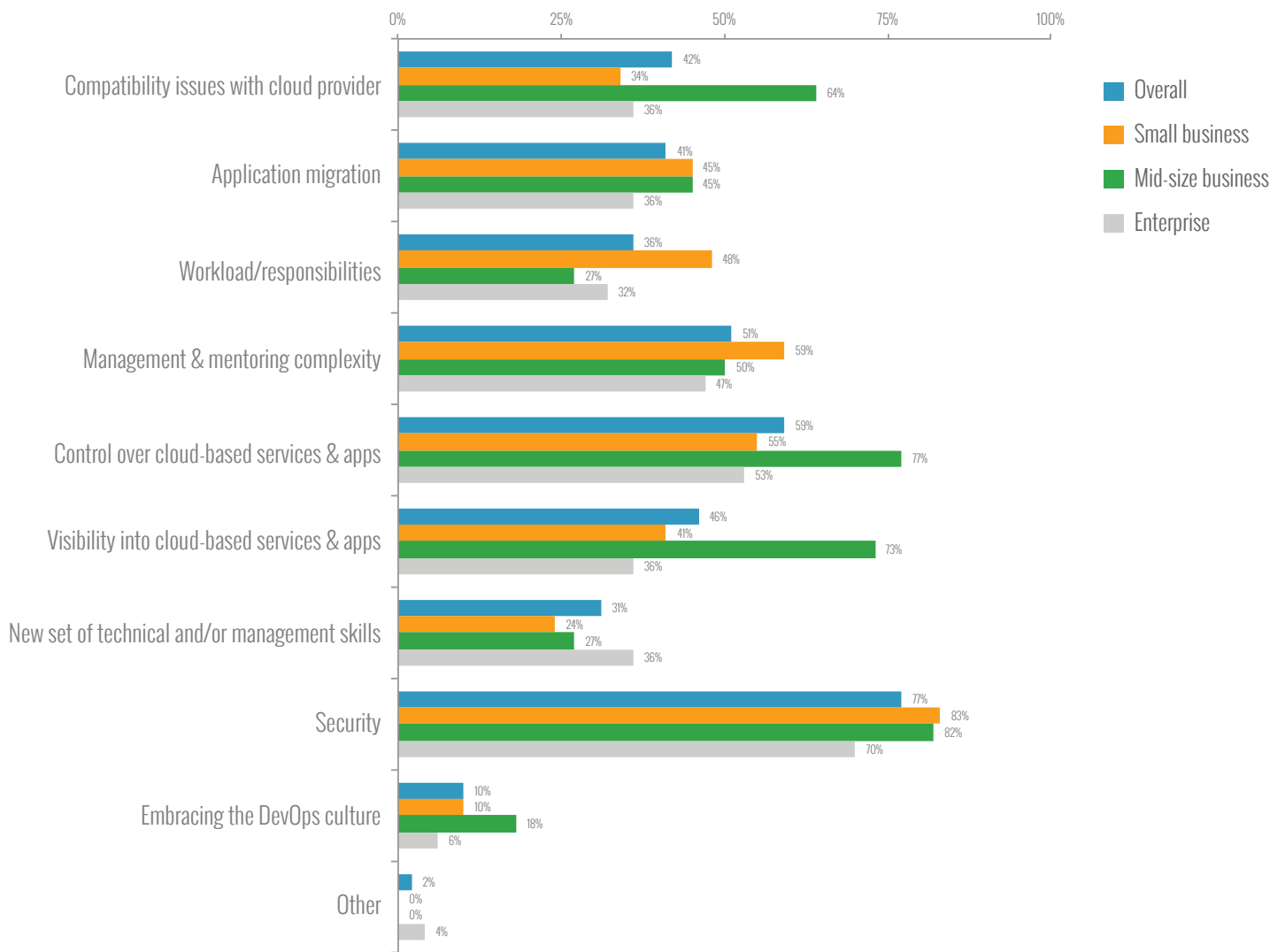


SURVEY QUESTION:

Does your IT organisation have adequate resources to manage a hybrid IT environment?

REALITIES OF MANAGING HYBRID IT

BIGGEST CHALLENGES WITH HYBRID IT ENVIRONMENTS

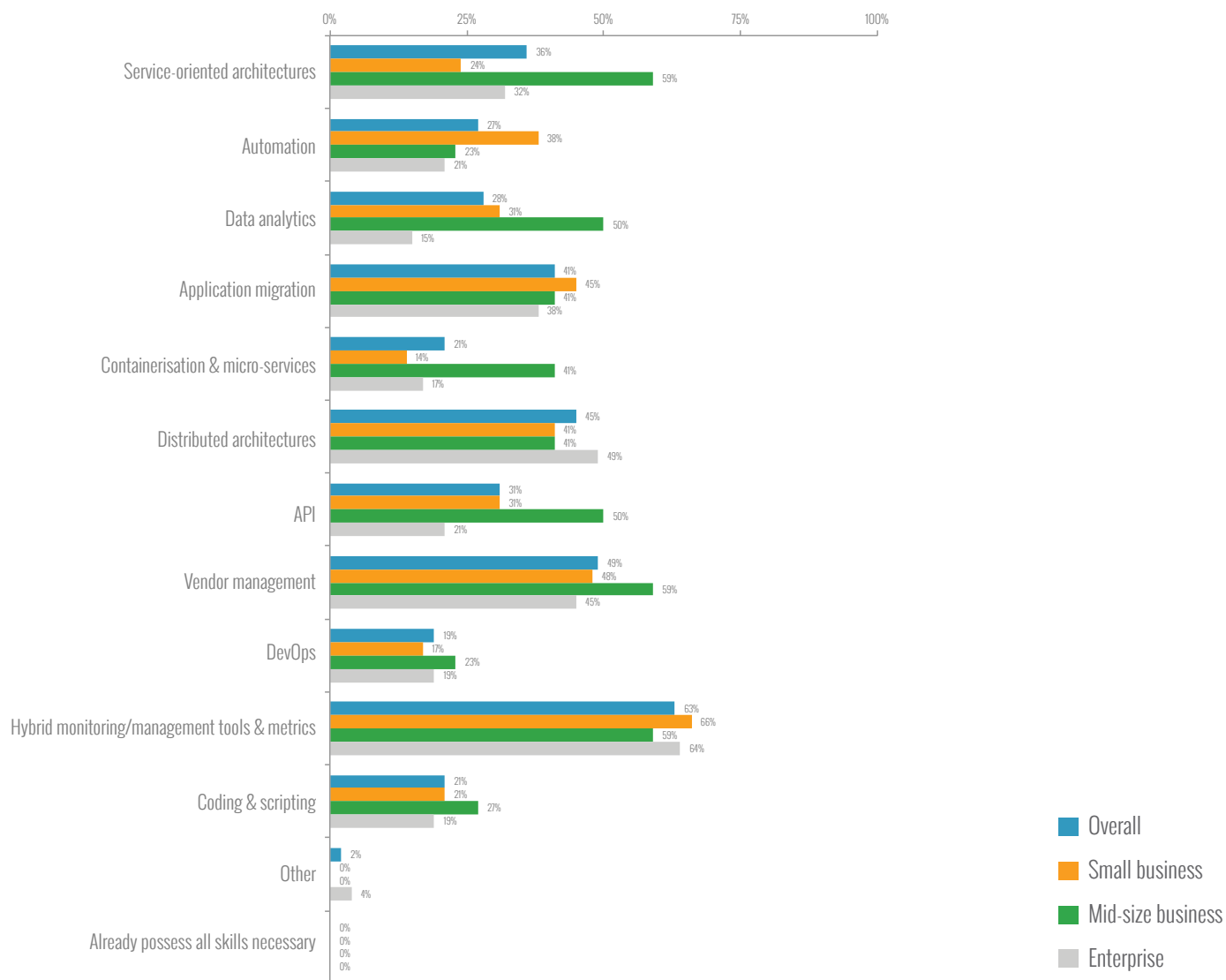


SURVEY QUESTION:

Which of the following do you feel are the biggest challenges associated with hybrid IT environments?

REALITIES OF MANAGING HYBRID IT

SKILLS NEEDED TO BETTER MANAGE HYBRID IT

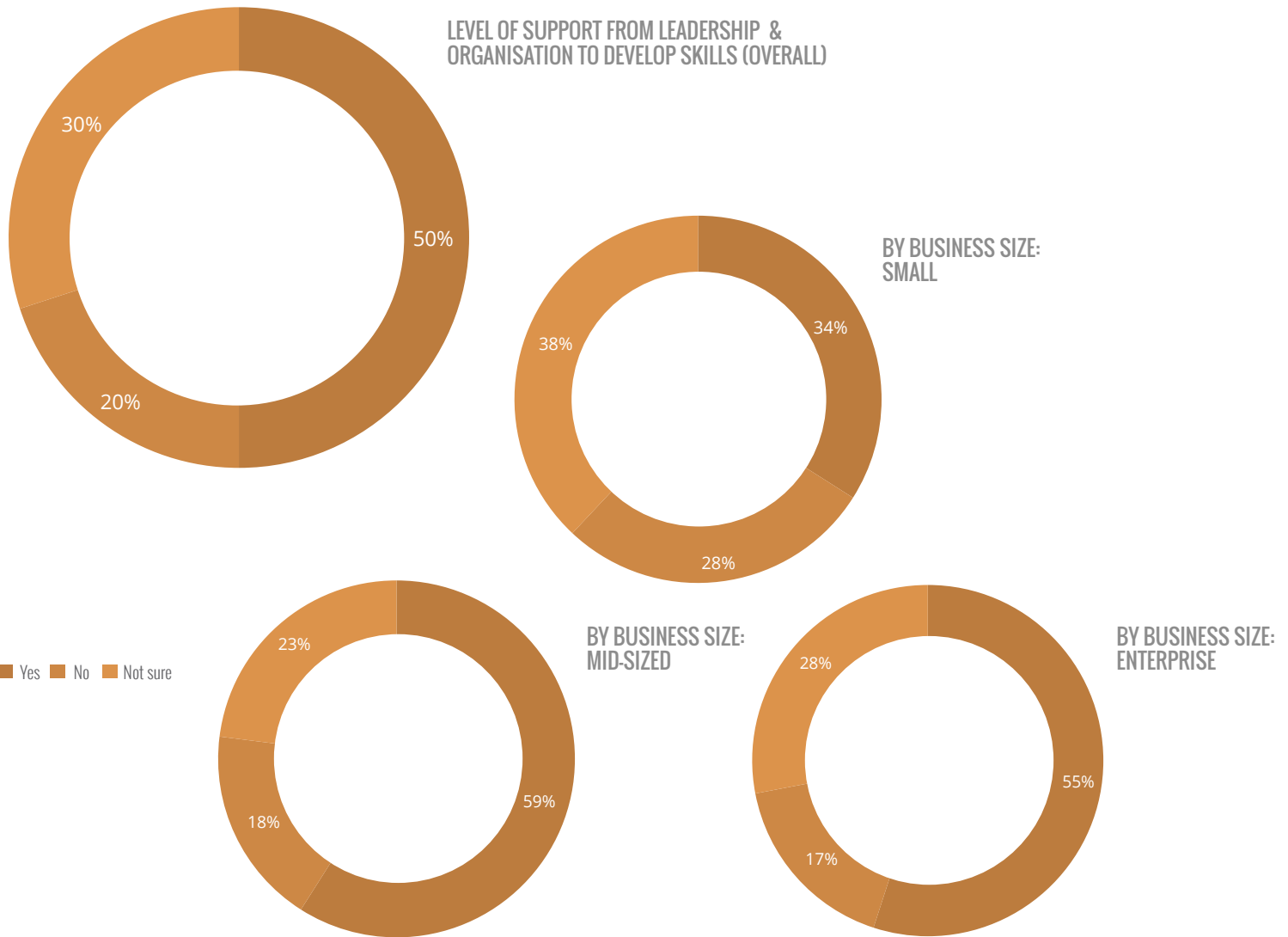


SURVEY QUESTION:

What are the most important skills you need to develop/improve in order to better manage a hybrid IT environment?

REALITIES OF MANAGING HYBRID IT

SUPPORT FROM LEADERSHIP TO IMPROVE SKILLS



SURVEY QUESTION:

Do you have the level of support you need from your leadership and the organisation as a whole to develop/improve these skills?



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view the study online at
it-trends.solarwinds.com

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