

2013 Enterprise Service Availability Benchmark Survey

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Executive Summary

This benchmark survey presents service availability metrics and related corporate practices that allow IT executives to compare their organization's performance and practices to their peers.

The results presented here are based on responses from 147 professionals from a wide range of industries and geographies collected through an online survey.

Some of the key findings of the survey include:

- **Most organizations have commendable service availability goals for mission-critical systems:** 90% have an availability goal of >99.76% (less than 22 hours of downtime a year), 68% have a goal of higher than 99.91% availability (less than 8 hours of downtime a year), and 27% have a goal of 99.99% availability (less than one hour of downtime a year).

- **However, 32% of the organizations surveyed did not meet their service availability goals for mission-critical systems in 2012.**
- The lowest downtime figures were reported by respondents from the telecommunication industry (3.7 hours for the year), followed by high-tech (4.0) and business services organizations (4.2). Highest downtime figures were reported by respondents from healthcare (14.1), financial services organizations (8.9) and public sector organizations (8.5).
- 71% of the respondents run at least some mission-critical applications in a private cloud environment, while 33% run such applications in the public cloud. At the same time, **less than half of these organizations (47%) have a disaster recovery solution for their cloud systems and 40% have no process in place to test the reliability of their private cloud systems.**

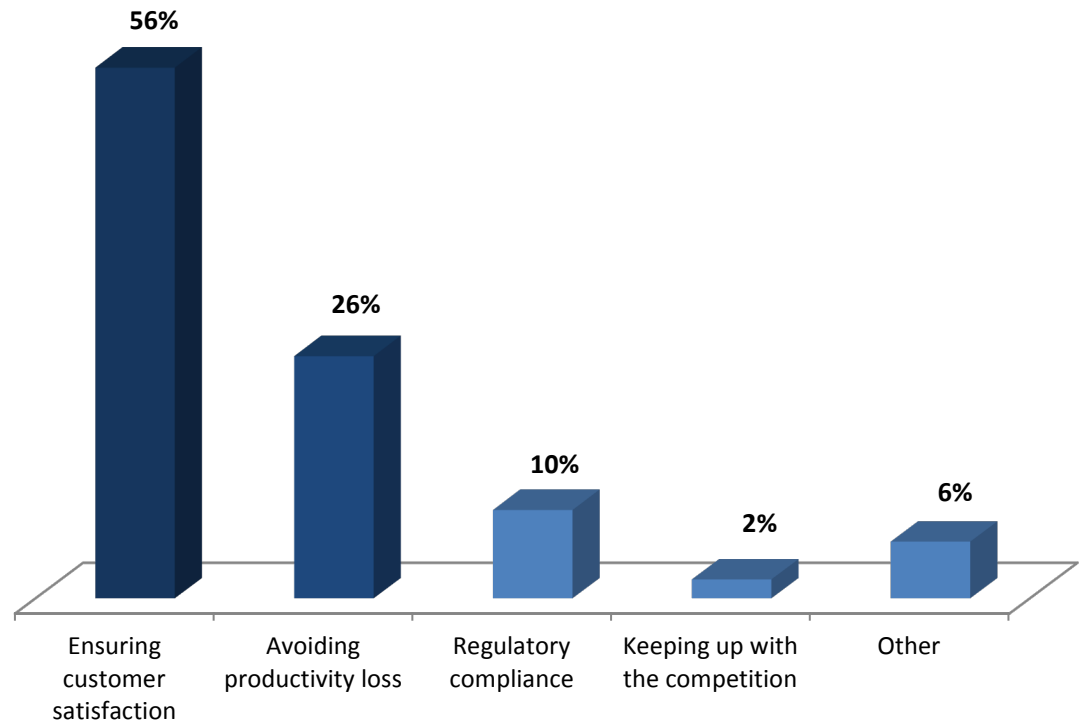
Table of Contents

What Drives Service Availability Goals?	4
Strategies and Tools to Ensure Service Availability	5
How Effective are These Strategies and Tools?	6
Top Challenges in Ensuring Service Availability	7
Service Availability Goals	8
Service Availability: The Reality.....	9
What Were the Causes for Outages?.....	10
Which Industries Experience the Most Downtime?.....	11
How Often Does Disaster Recovery Testing Take Place?.....	12
What Are the Top Challenges in Disaster Recovery Testing?.....	13
Confidence in Disaster Recovery Testing	14
Organization with High Confidence in Disaster Recovery Testing Conduct Testing More Often	15
Disaster Recovery / Failover Capacity	16
Mission-critical in the Cloud	17
Private Cloud Disaster Recovery and Availability Testing.....	18
Disaster Recovery and High Availability for Cloud Applications	19
Respondent Demographics	20
Sign up for a Service Availability Assessment	22

What Drives Service Availability Goals?

Ensuring customer satisfaction is the most common business driver for service availability goals, cited by 56% of the respondents.

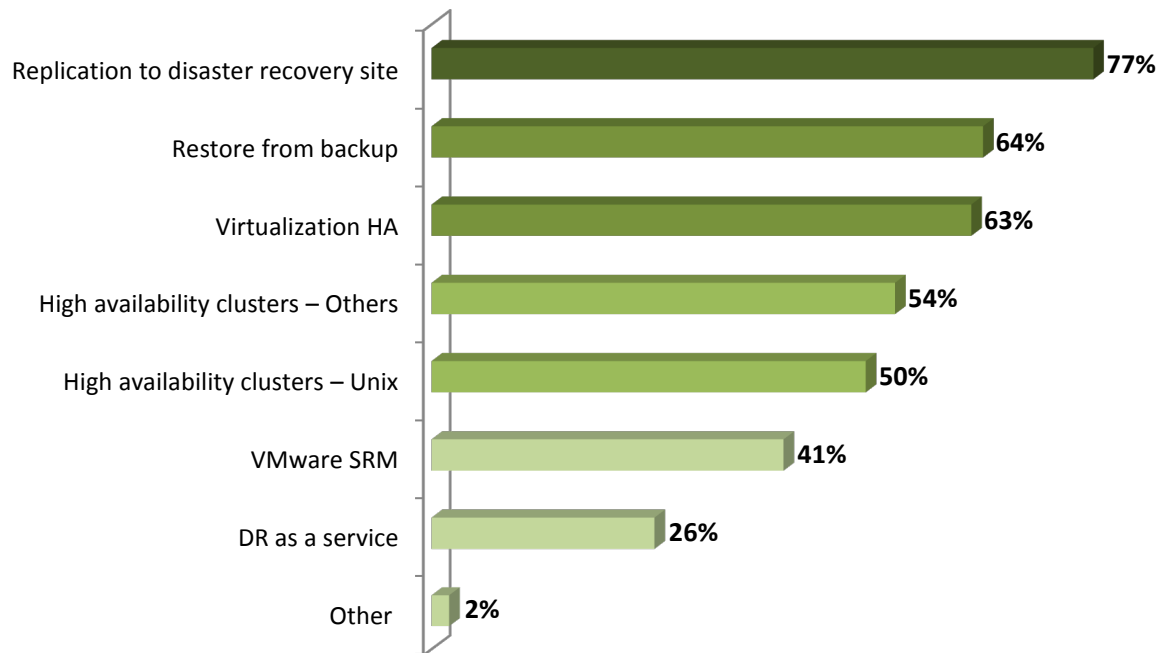
Avoiding productivity loss was mentioned by just over a quarter (26%) of respondents.



Strategies and Tools to Ensure Service Availability

The most common strategy for ensuring service availability is replication to a disaster recovery site, used by more than three-quarters (77%) of respondents.

Restore from backup and virtualization HA were mentioned by just shy of two-thirds of the respondents (64% and 63% respectively).

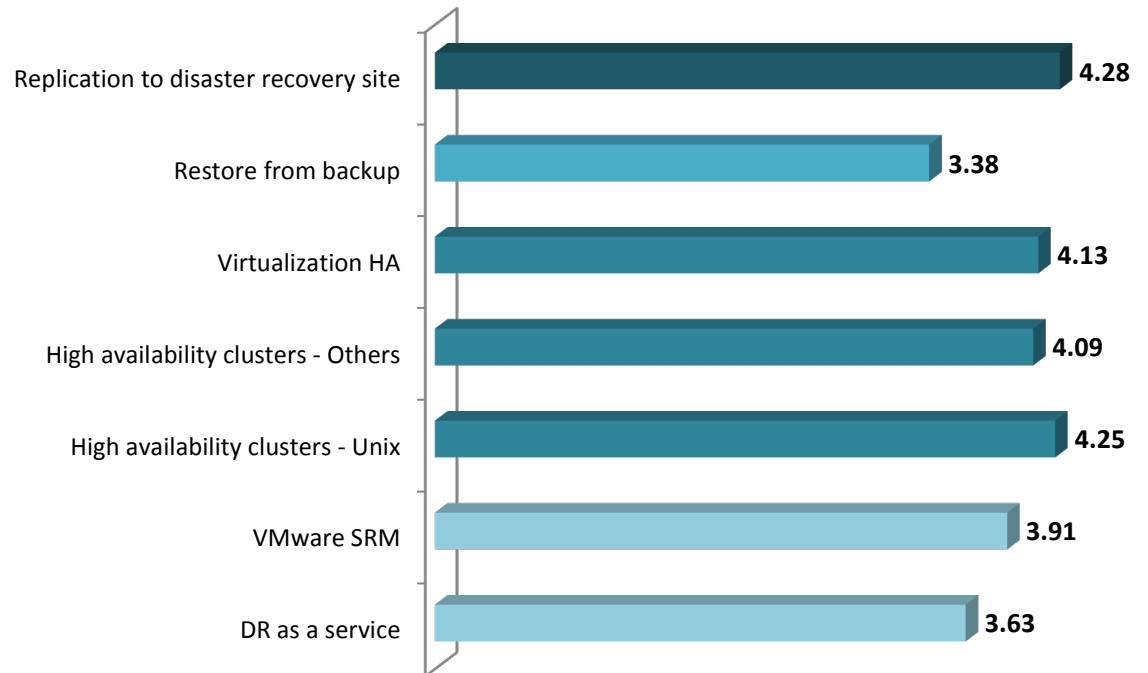


Respondents could select more than one option, results add up to more than 100%.

How Effective Are these Strategies and Tools?

According to the survey results, replication is also the most effective strategy for ensuring service availability.

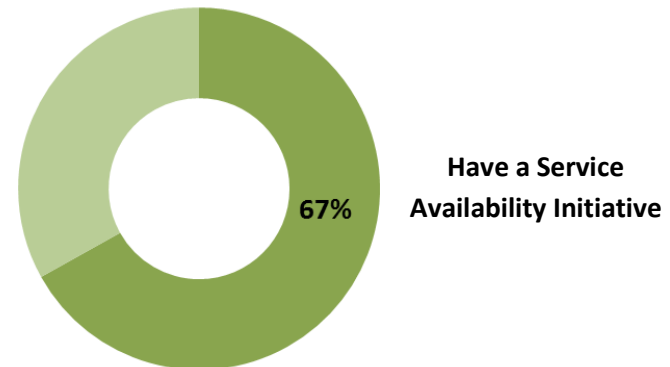
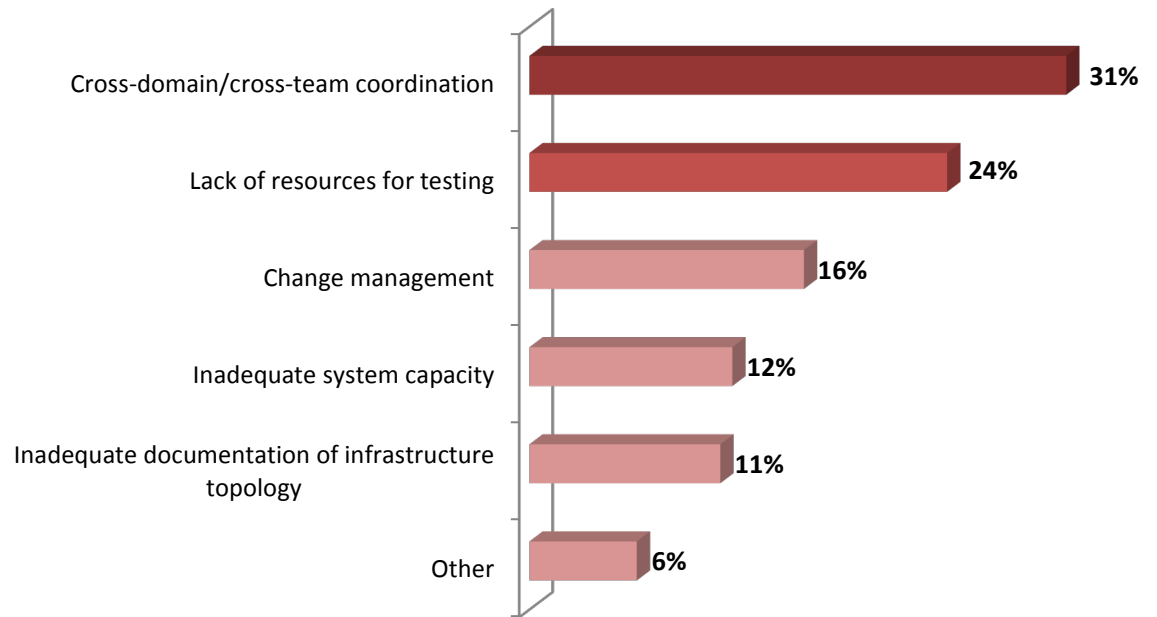
Restore from backup, although a popular strategy, is viewed as less effective than high availability clusters and virtualization.



Top Challenges in Ensuring Service Availability

When asked to rate the top challenge in ensuring service availability, **close to a third of the respondents (31%) mentioned cross-domain and cross-team coordination.** Close to a quarter (24%) cited lack of resources for testing.

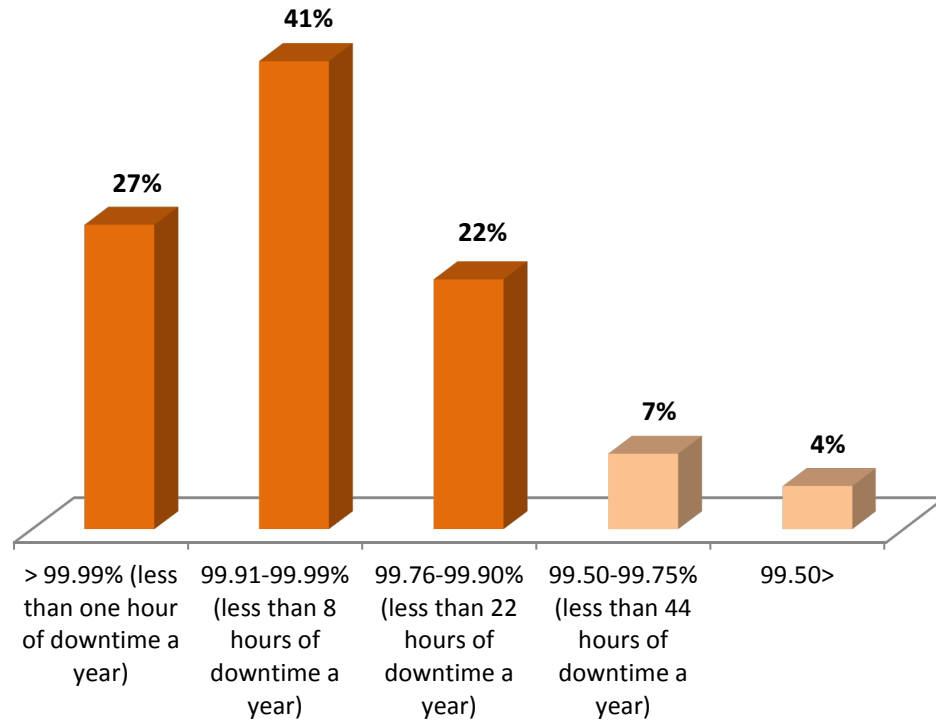
Two third of the respondents (67%) indicated they have initiatives for improving service availability management in 2013.



Service Availability Goals

The vast majority of the organizations (90%) have a service availability goal of over 99.76% (less than 22 hours of downtime a year) for mission critical systems.

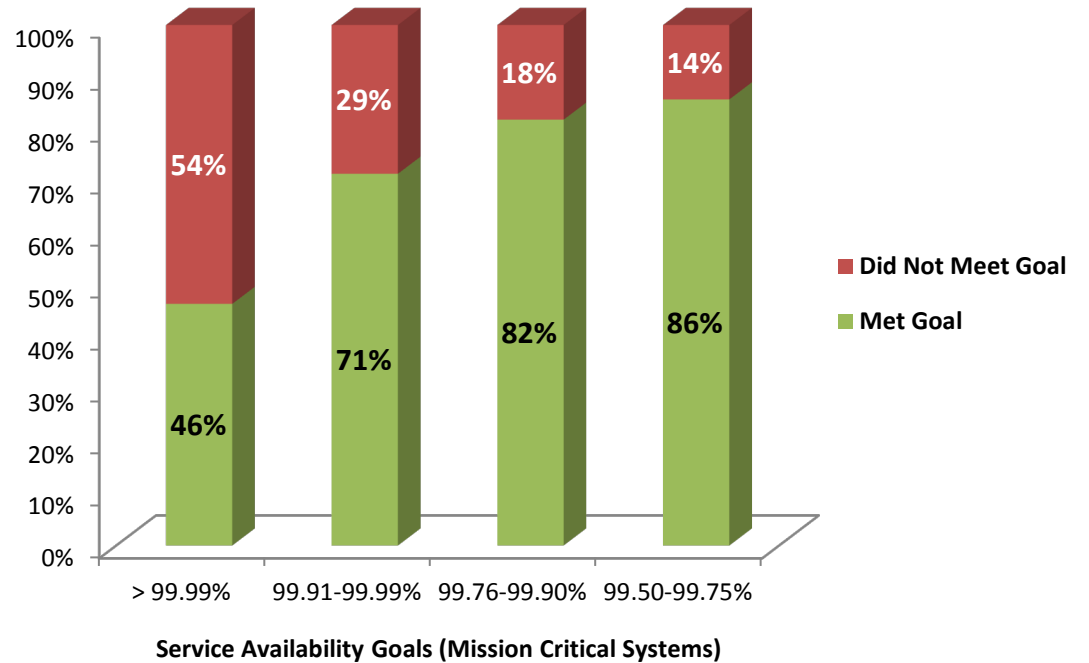
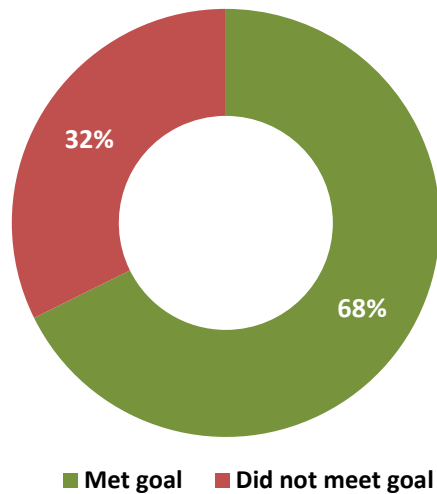
Over two thirds of the organizations (68%) have a goal of higher than 99.91% availability (less than 8 hours of downtime a year), and 27% have a goal of 99.99% availability (less than one hour of downtime a year).



Service Availability: The Reality

By their own account, close to a third of the organizations surveyed (32%) did not meet their service availability goals for mission-critical systems in 2012.

Organizations with higher services availability goals had lower rates of achieving their goals.

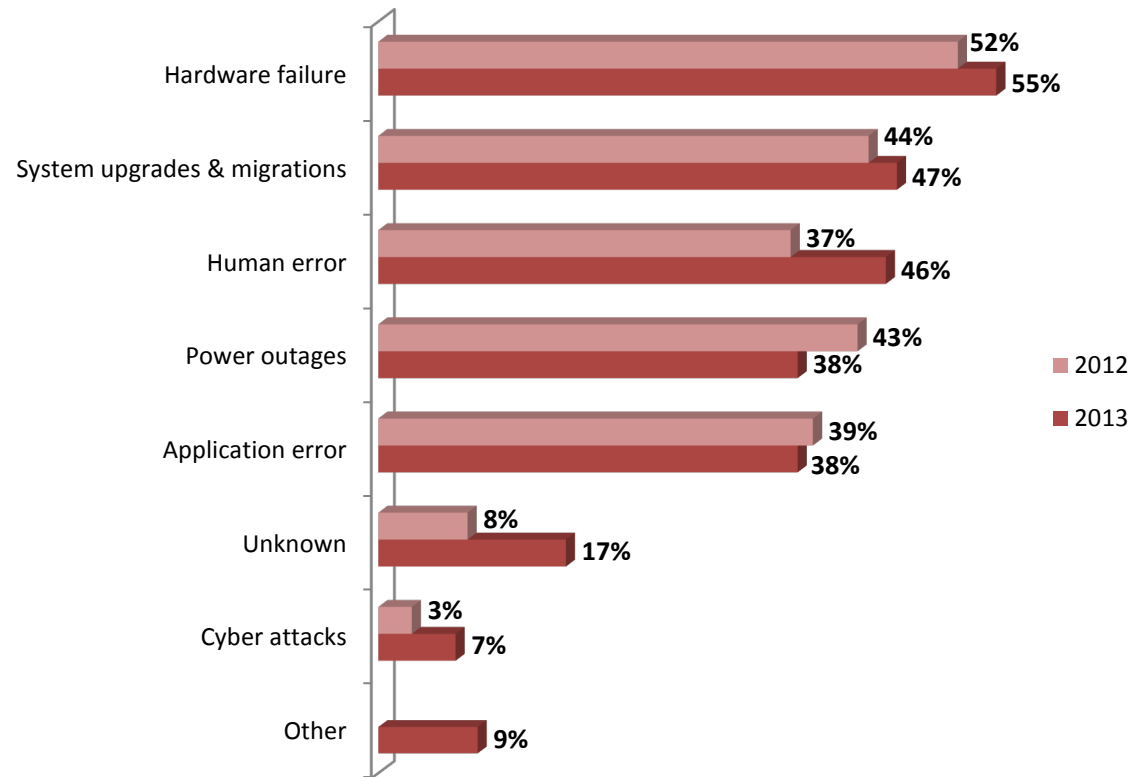


What Were the Causes for Outages?

Hardware failures were the most common reason for system outage, cited by 55% of the respondents.

Other leading causes include upgrades & migrations (47%), human error (46%), power outages (38%), and application error (38%).

2013 results show a significant increase in human error as a cause of outages compared to 2012.



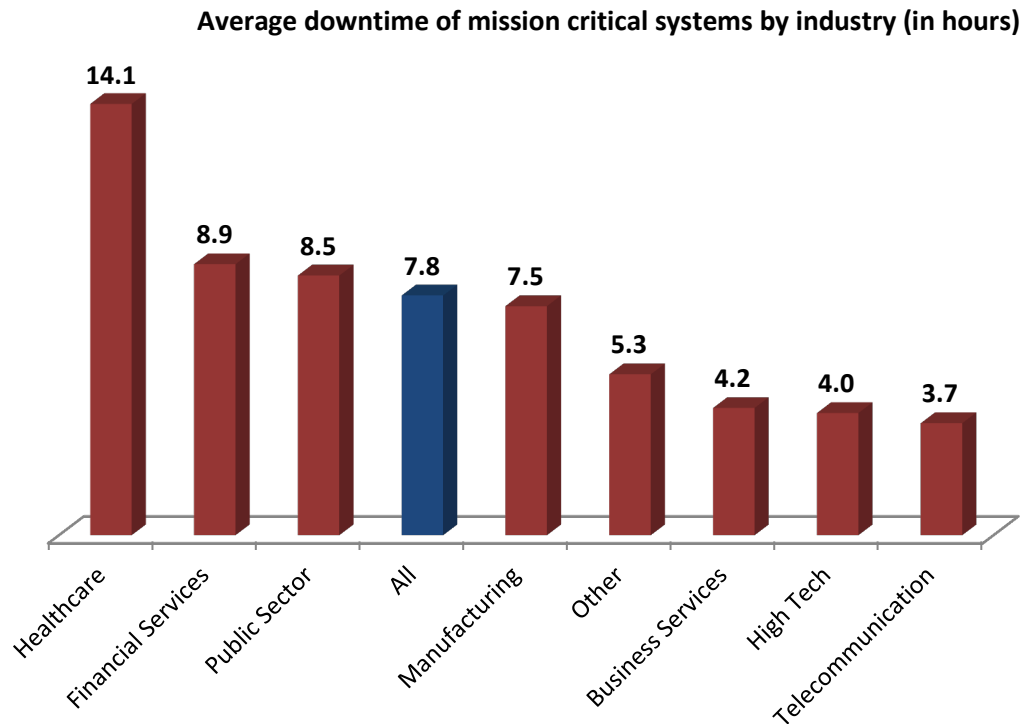
Multiple answers per respondent, results add up to more than 100%

Which Industries Experience the Most Downtime?

The average downtime reported for mission-critical systems across all industries was 7.8 hours.

The lowest average downtime was reported by respondents from the telecommunication industry (3.7 hours for the year), followed by high-tech (4.0) and business services organizations (4.2).

Highest downtime figures were reported by respondents from healthcare (14.1), financial services organizations (8.9) and public sector organizations (8.5).

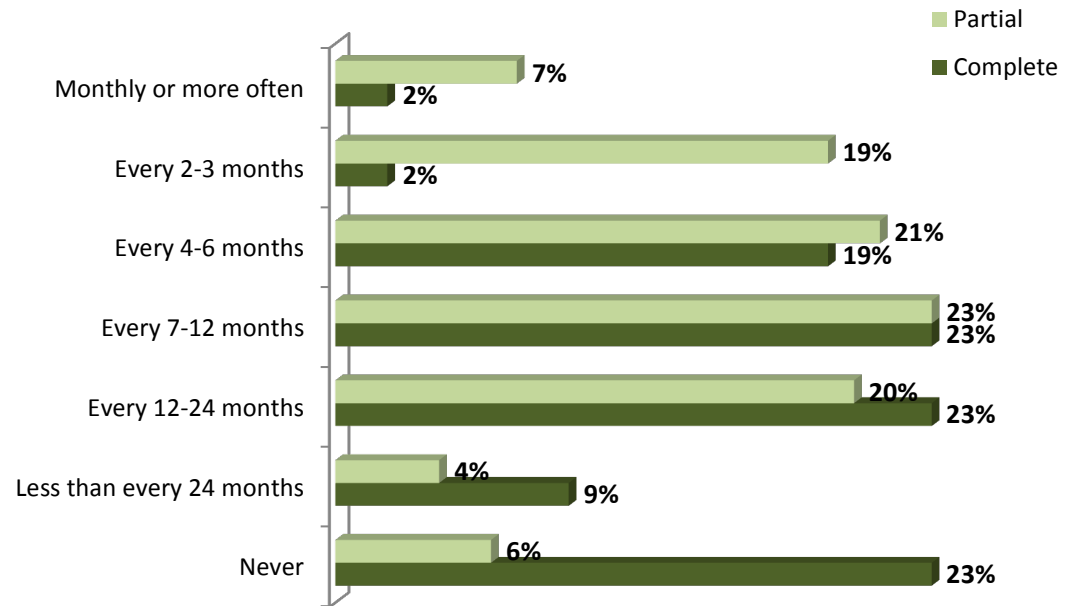


How Often Does Disaster Recovery Testing Take Place?

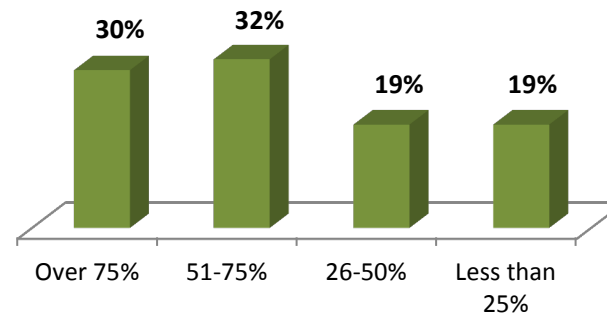
Most organizations surveyed (70%) conduct a partial disaster recovery test at least once a year.

At the same time, less than half the organizations (46%) conduct a complete test annually or more often, and **as many as 23% don't ever conduct a complete test.**

Partial tests cover over three-quarters of the business services footprint in 30% of the organizations and over half of the business services in 62% of the organizations surveyed.



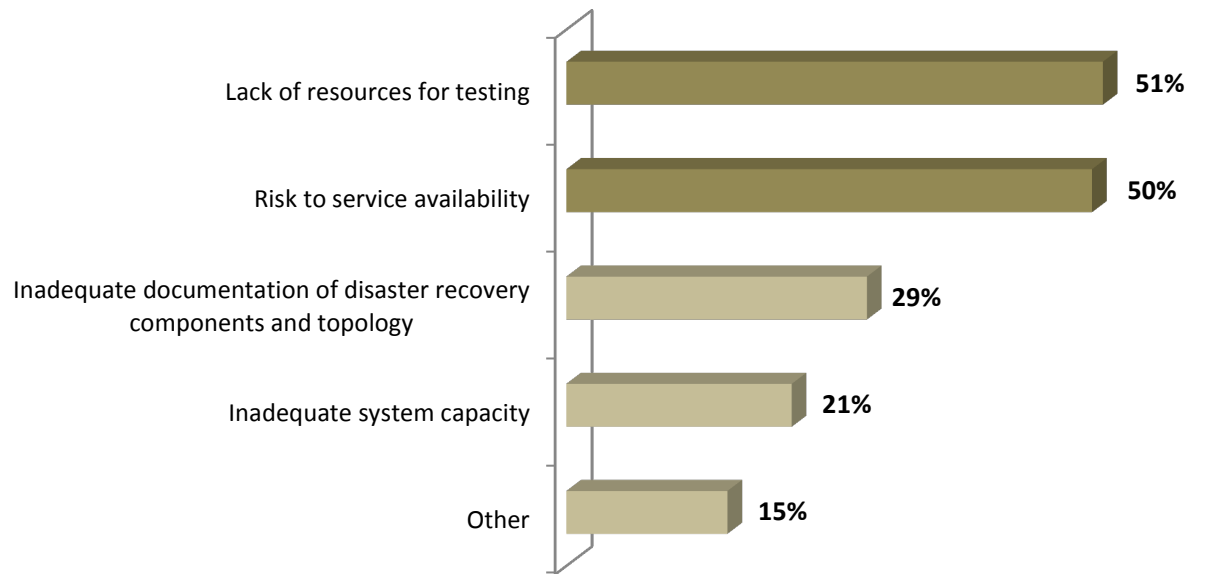
Multiple answers per respondent, results add up to more than 100%



What Are the Top Challenges in Disaster Recovery Testing?

Lack of resources and risk to service availability are the top two challenges to disaster recovery testing, cited by 51% and 50% of survey respondents respectively.

Other challenges include inadequate documentation of disaster recovery components and topology (29%) and inadequate system capacity for testing (21%).

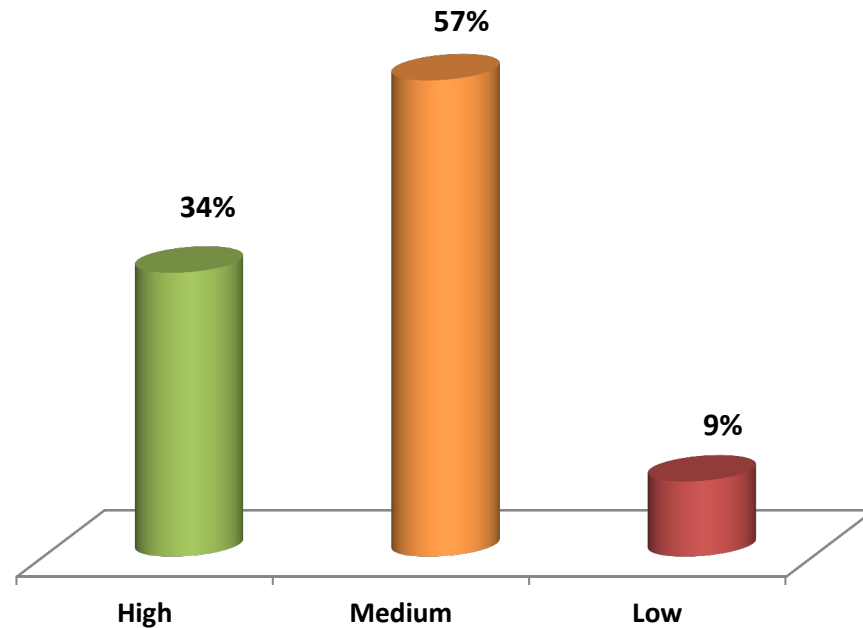


Multiple answers per respondent, results add up to more than 100%

Confidence in Disaster Recovery Testing

Just over a third of the respondents (34%) have high level of confidence in the completeness and accuracy of disaster recovery testing.

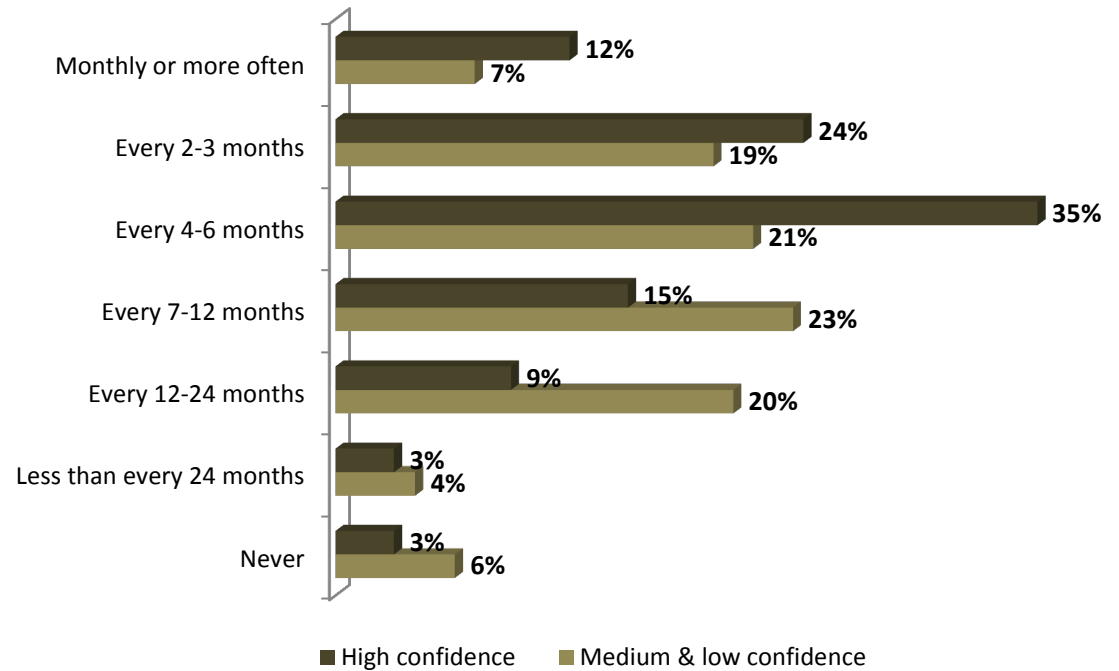
Over a half of the survey respondents (57%) describe their confidence as medium, while 9% have low confidence in their testing.



Organizations with High Confidence in Disaster Recovery Testing Conduct Testing More Often

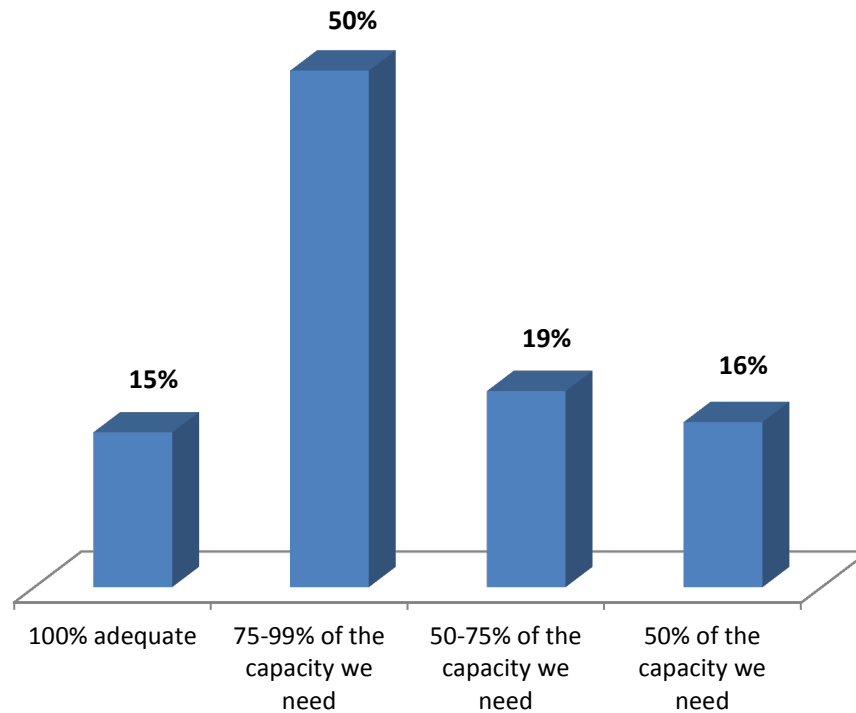
Close to three-quarters (71%) of organizations with high confidence in disaster recovery testing conduct a partial test at least once every six months.

Only 47% of organizations with medium and low confidence in disaster recovery testing conduct a partial test once in six months.



Disaster Recovery / Failover Capacity

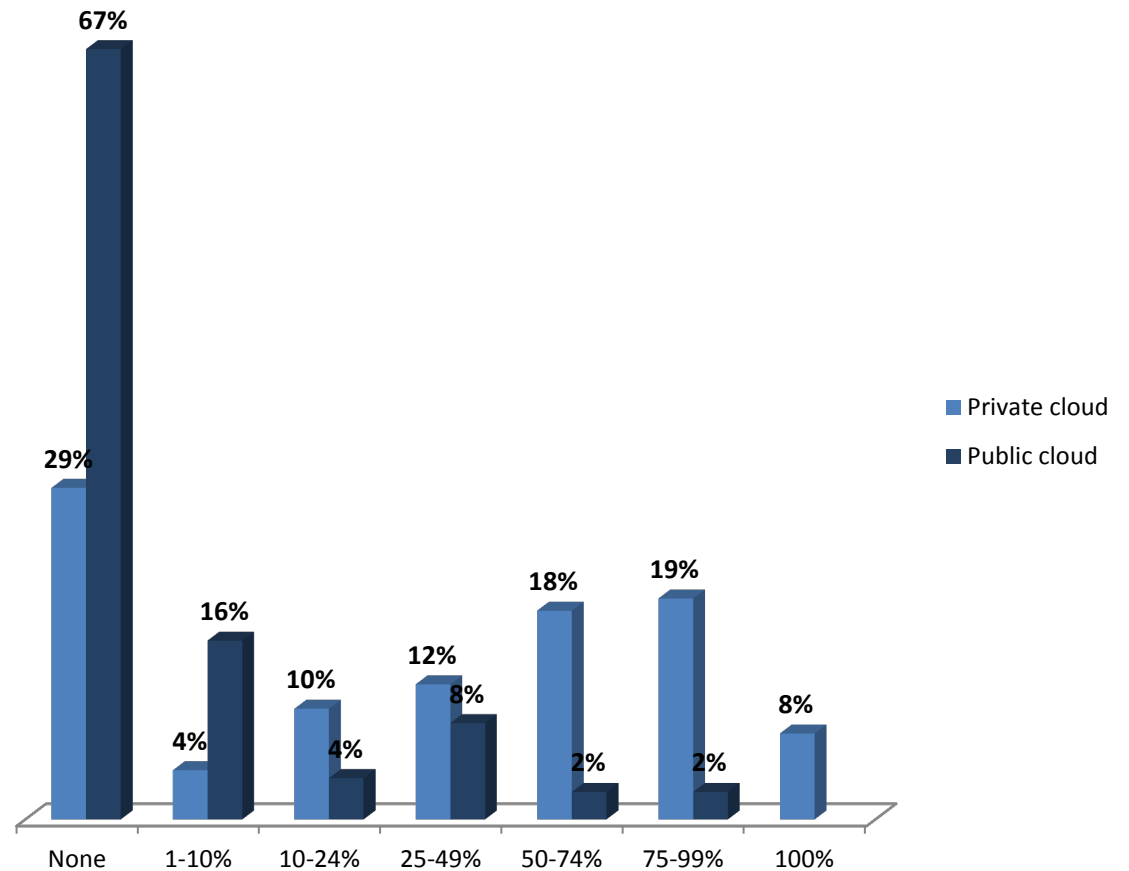
Only 15% of the organizations surveyed have adequate disaster recovery capacity, while just over a third of the organizations (35%) have less than 75% of the required capacity.



Mission-critical in the Cloud

71% of the survey respondents run at least some mission-critical applications in a private cloud environment, while a third (33%) run such applications in the public cloud. These numbers are very similar to the results from last year's survey.

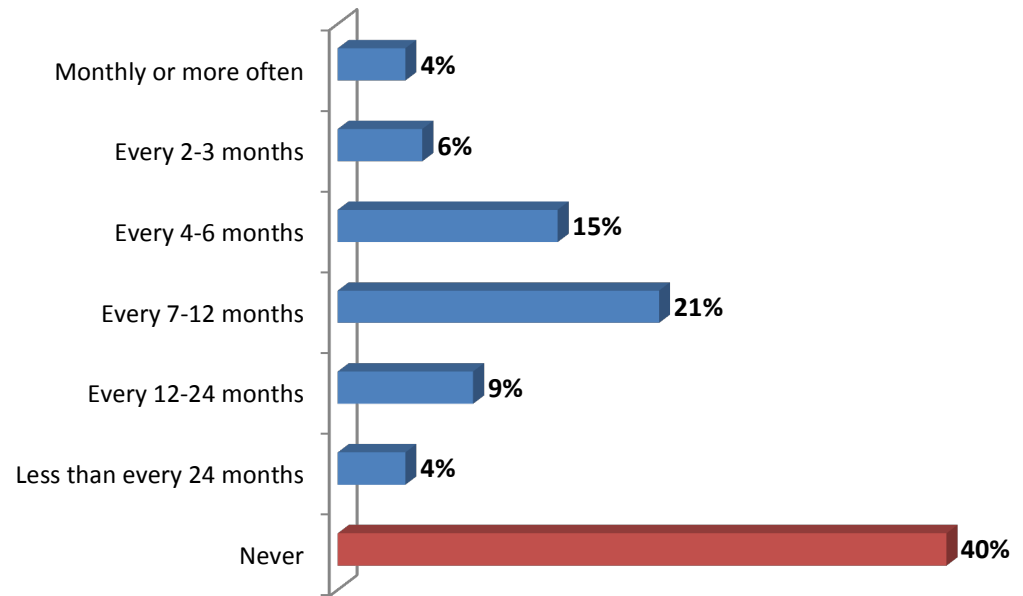
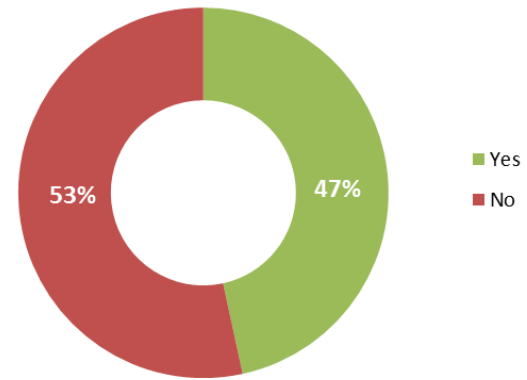
As many as 45% of the organizations run more than half of their mission-critical applications in the private cloud, while only 4% do so in the public cloud.



Private Cloud Disaster Recovery and Availability Testing

Less than half (47%) of respondents have a disaster recovery solution in place for their private cloud systems.

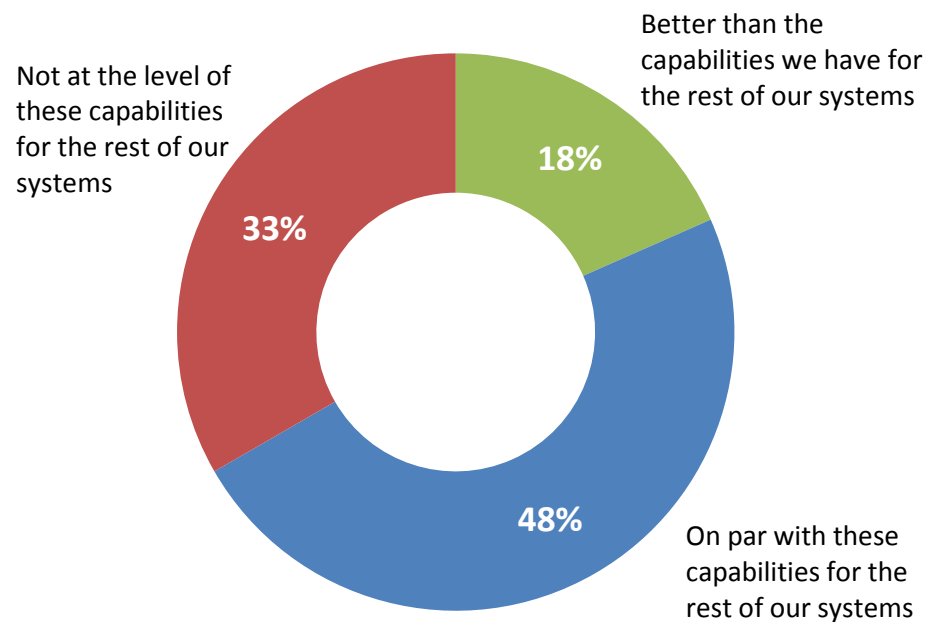
Less than a half of the organizations surveyed (47%) test their private cloud availability at least once a year, and 40% never conduct such a test.



Disaster Recovery and high Availability for Cloud Applications

A third of the respondents (33%) describe their disaster recovery and high availability capabilities for the cloud below the level of those capabilities for the rest of their systems.

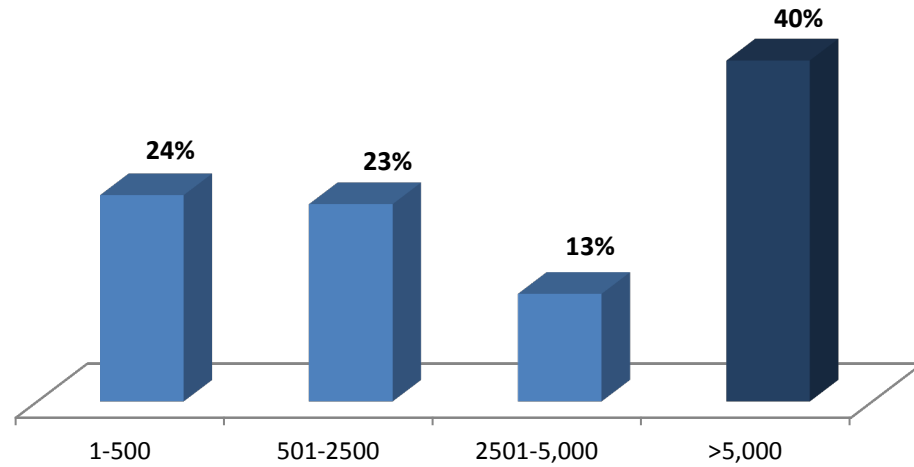
18% describe their cloud capabilities as better than those for the rest of their systems.



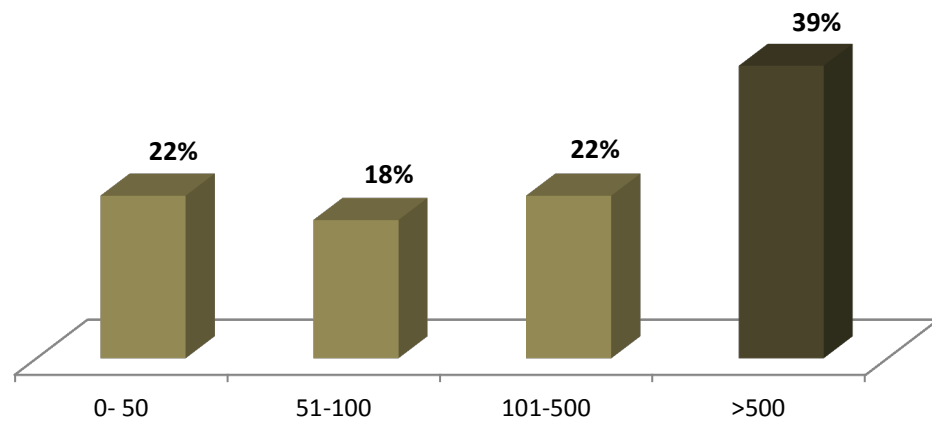
Respondent Demographics

40% of the survey respondents come from organizations of 5,000 or more employees and 39% have more than 500 servers in their data center.

Number of Employees



Number of Servers

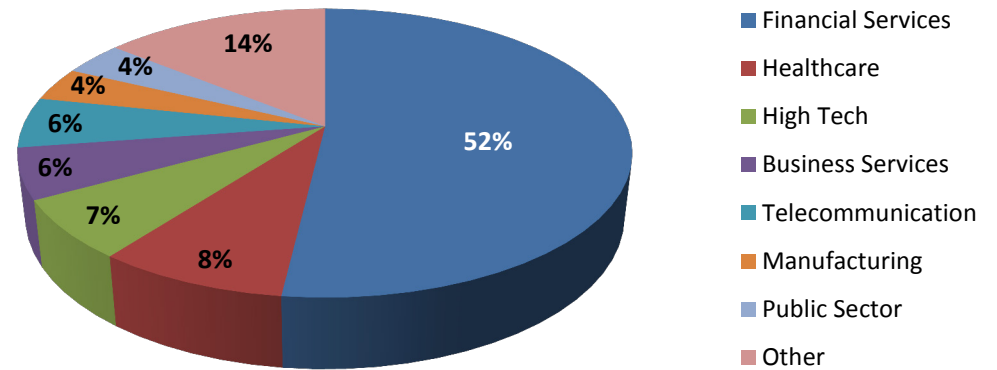


Respondent Demographics (cont.)

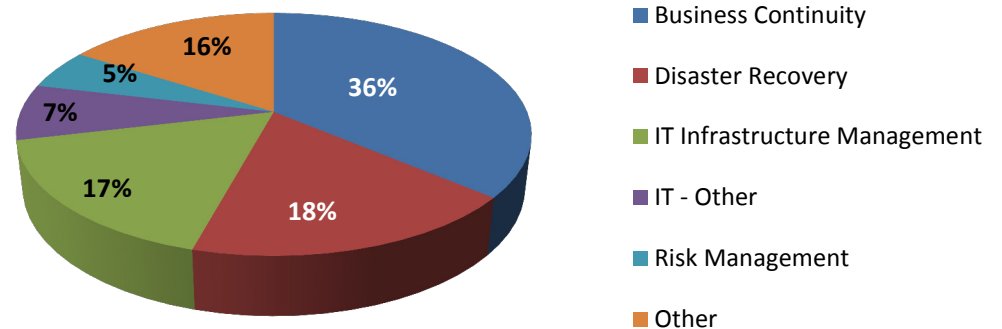
Over half of the respondents (52%) represent financial services organizations.

Over a third of the respondents (36%) are in business continuity roles, 18% are in disaster recovery and another 17% in IT infrastructure management roles.

Industry



Role in the Organization



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