



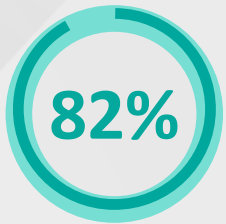
THE 2018 BMC MAINFRAME SURVEY RESULTS

The Mainframe's Bright Future



2018 Mainframe Survey Highlights

Modernization Continues



Use **Java** in their mainframe environment



48% Practicing **Agile/DevOps** in their **mainframe** environment, **13%** have plans to do so

Transformation Underway

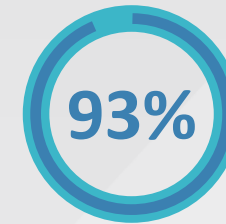


of respondents were **under age 50**, up 10 percentage points from 2017



23% of workforce is **female** and **12%** are professionals **under 30**, both are increasing percentages

Optimism Increasing



of **executives continue to believe** in the long term viability of the platform. The highest level recorded in 13 years.



Mainframe Platform Strengths of **Availability** and **Security** are increasingly valued

Mainframe Strengths Support Digital Business Requirements

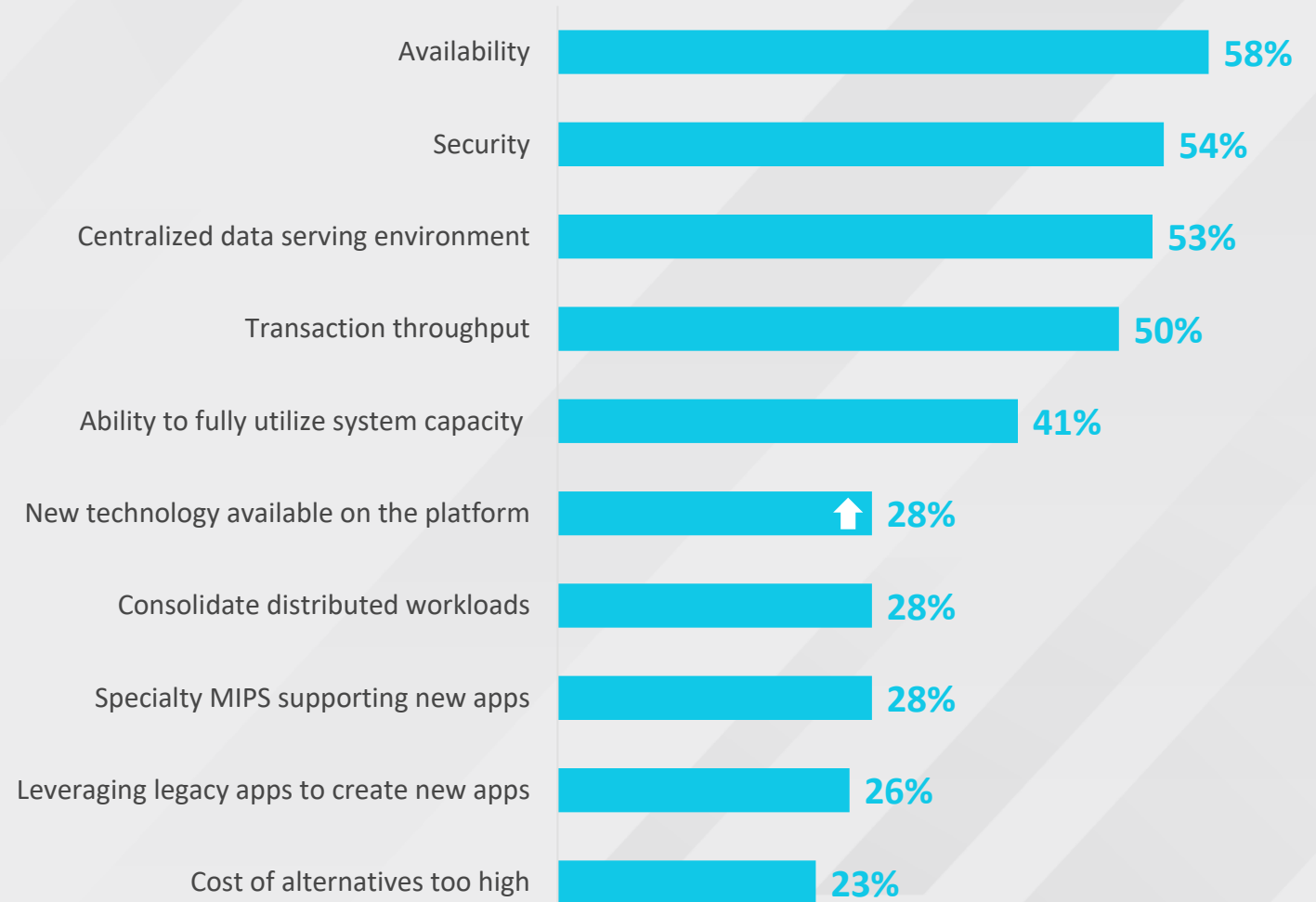
Digital Business Values the Mainframe's Strengths

Availability, Security, Data Serving and Transaction Processing

+ 2018 showed the increasing importance of the mainframe, as almost every area of strength increased in percentage of respondents, as compared to 2017.

+ Large MIPS shops (10,000+) are very upbeat on these mainframe strengths: availability (72%), transaction through-put (71%), security (69%), and centralized data serving environment (69%).

Because of these strengths, the mainframe is the most trusted platform to handle growth generated by digital business.

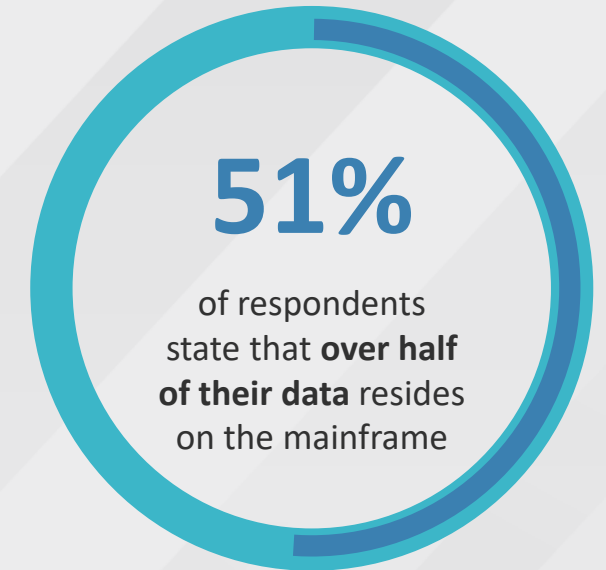
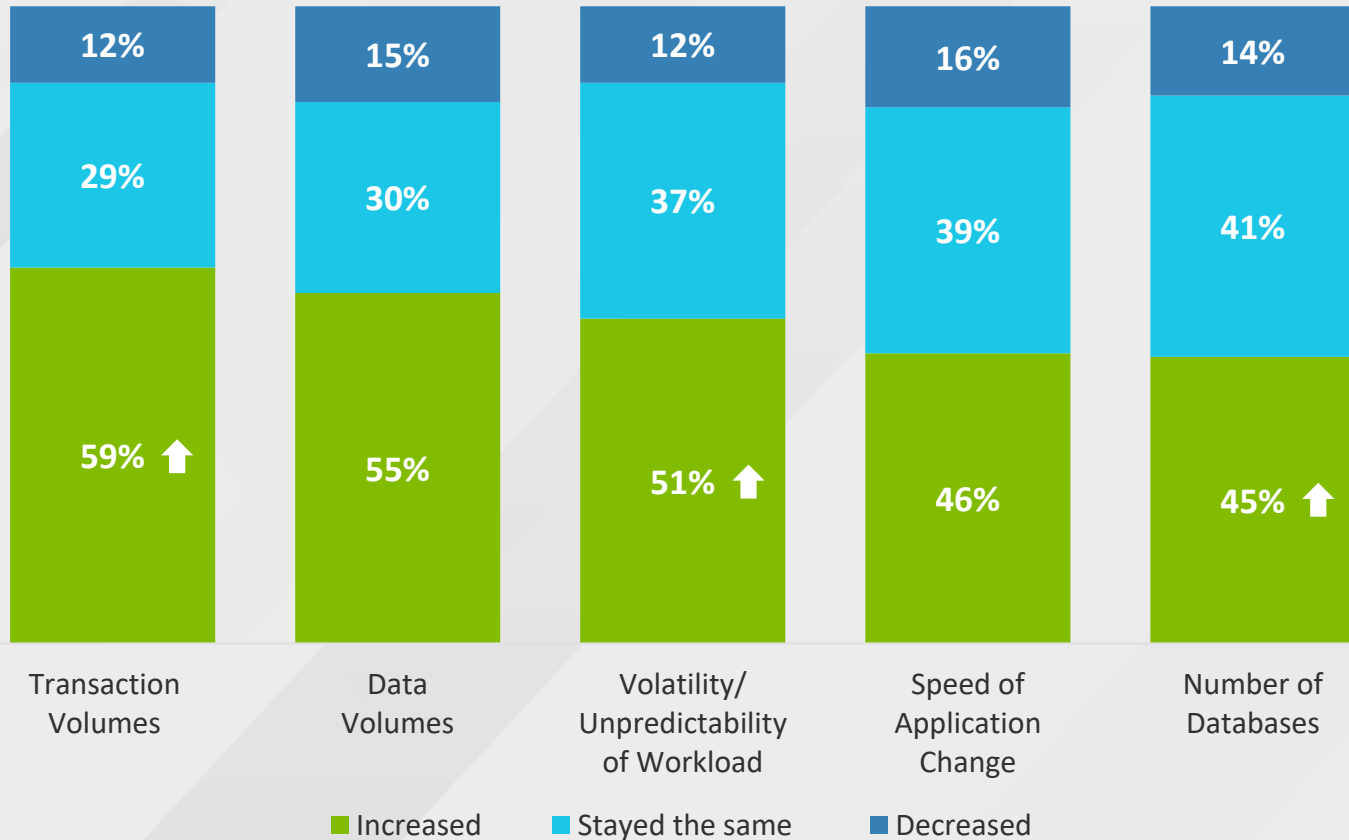


Note: Arrow indicates a significant difference at the 95% confidence level

Digital Business is Increasing Mainframe Activity Levels

Changes in Last 12 Months

Levels increasing across five key categories

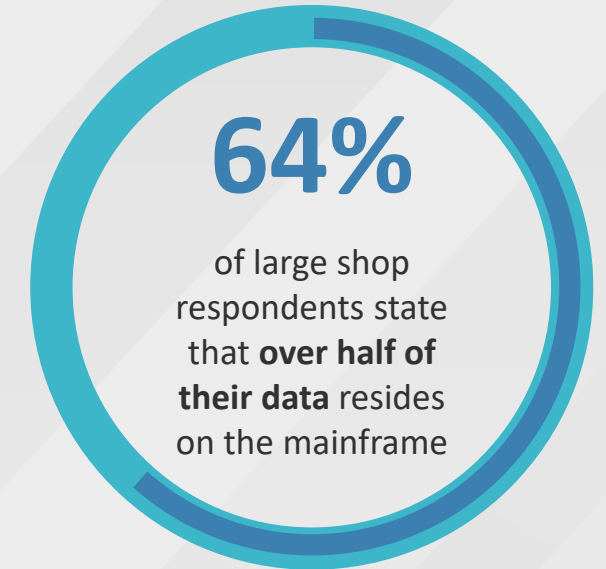
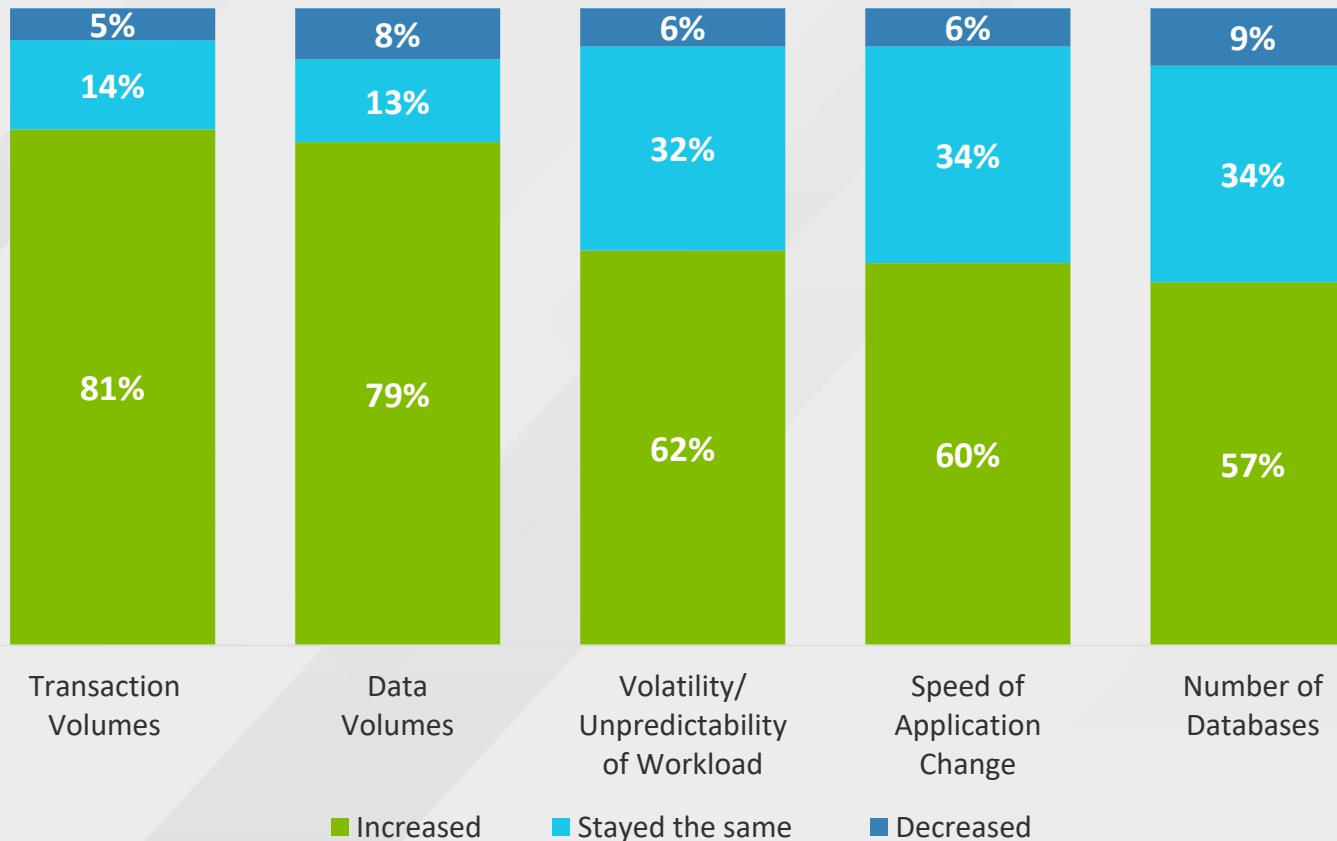


This activity level has driven **60%** to have a **positive outlook for MIPS growth**, the highest level in three years.

Large Shops are Increasing at a Faster Rate

Changes in Last 12 Months

Large shop changes across five key categories (MIPS base of 10,000 or more)



This activity level has driven **70% of large shops to have a positive outlook for MIPS growth**, the highest level in three years.

Digital Business Impacts on Priorities

Top Priorities

+ **“Application availability”** improvement focus areas include:
faster problem determination, improved automation, visibility into end-to-end performance, and the elimination of planned outages.

+ **“Application modernization”** and **“data recovery”** ranked higher with executives, while technical staff view “application availability” and “application modernization” as higher priorities.

+ **“Cost reduction/optimization”** and **“data privacy/compliance/security”** are the top two priorities for both executives and technical staff.

+ **“Staffing and skills”** are now tied for 5th with “implementing cloud technology” and “data recovery.”



Application availability



Application modernization



Cost reduction/optimization



Data privacy/compliance/security



Staffing/skills

Shifting Mainframe Challenges



Application availability



Application modernization



Cost reduction/optimization



Data privacy/compliance/security



Staffing/skills

Top Challenges

+ **Cost** continues to be a challenge, but not as in years past, **declining 7 percentage** points. According to the responses, the goal is to keep expenses in check, but respondents realize optimization is the key to doing this.

+ **Security concerns** increased in importance among executives from 2017. The top reason for the change was compliance with regulators and internal auditors. National regulations and **GDPR** were the regulations most cited.

+ **Staffing/skills** shortage is still a challenge, as experienced mainframe workers retire and the next generation continues to come up to speed.

+ **Executive perception** of the mainframe remains as a challenge. However, executive perception of this challenge continued to improve year over year with a six point increase from 2017.

Application Modernization Is Happening

Critical applications are growing and are the same in 2017 and 2018. These include:



Transactional systems



Backend data server



Analytics



Big data

42%

Say “**application modernization**” is a priority in the next year.

Of those that are taking advantage of new technology:

56%

Updating applications to new languages

40%

Updating applications to use new application server technologies

Modernizing the Mainframe with New Techniques and Technology

How Are They Modernizing?

82% Are using Java, an increase of 9 percentage points over the last 3 years.

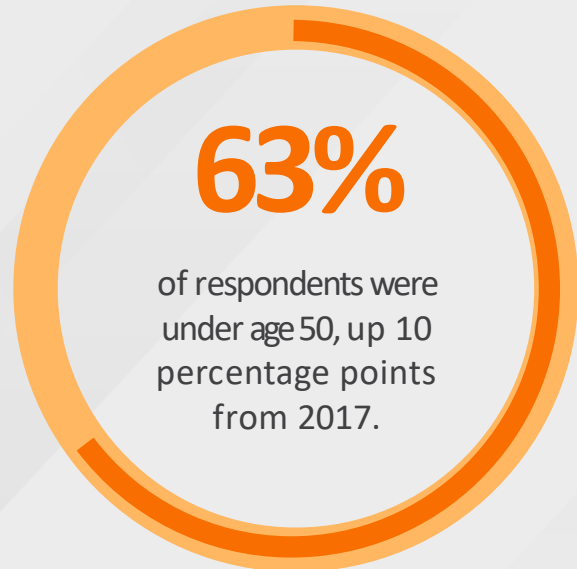
65% Java use in the production mainframe environment, up 11 percentage points over the past 2 years.

41% Of large shops are enabling access to their data using APIs, through deploying z/OS Connect.

33% Are ensuring data remains secure by deploying the latest encryption techniques.

The New Look of Today's Workforce: Gen-Z, Millennials, Gen-X

Respondents show a shift in demographics over prior years.



51% of under age 30 respondents are women

90% of Latin American,
82% of EMEA,
75% of APJ,
& **63%** of North American
workforce is Gen Z, Millennials, or
Gen Xers

Modernizing The Organization

Organizations are modernizing and executives are making sure the right talent is on board to manage the new technologies.



MAINFRAME: KEY TO THE FUTURE OF DIGITAL BUSINESS

To ensure success with this powerful platform, keep these three things in mind:



Evangelize the mainframe

Share your vision and positive experiences, so other companies can effectively reinvent their businesses in a continually evolving digital business environment.



Engage your new workforce

New, fresh, and innovative workers with an abundance of energy and enthusiasm for the mainframe are available. They are ready to be given a chance to shine.



Embrace new techniques and technologies

Use new solutions to optimize your mainframe to overcome your organization's challenges with today's growing transaction volume, data volume, and workload volatility.

BMC ZSOLUTIONS | UNLEASHING THE POWER AND VALUE OF YOUR MAINFRAME



Self-Managing
Mainframe



SYSTEMS

Simplify your systems and performance management and keep them running and performing at their best with intelligent and automated solutions



DATA

Ensure your applications and your data are always available and optimized with next generation, automated solutions



SECURITY

Enhance services across the mainframe and enterprise to deliver on your growing security and compliance requirements



COST

Optimize your mainframe costs with more efficient software, productivity improvements, and proven cost-reduction solutions and strategies



Thank You

Click to get your copy of The 2018 BMC Mainframe Survey:

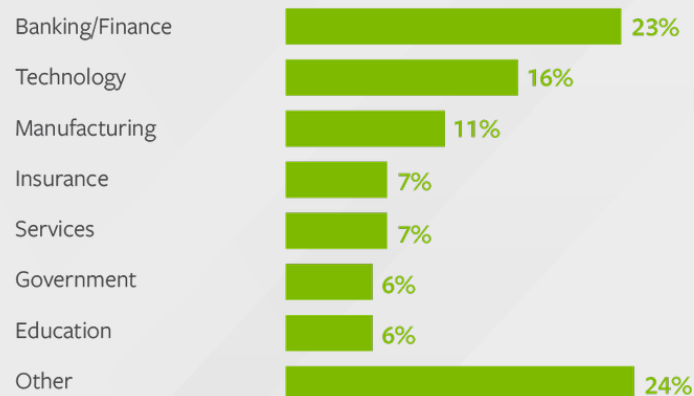
<https://www.bmc.com/info/mainframe-survey.html>



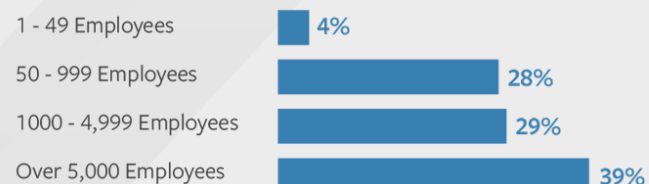
Demographics - Companies



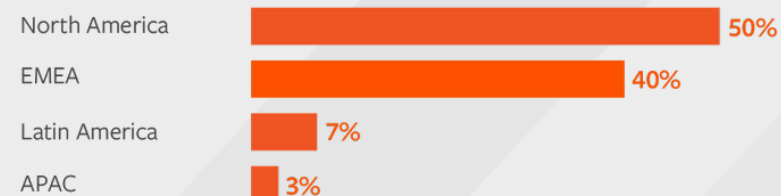
Industries



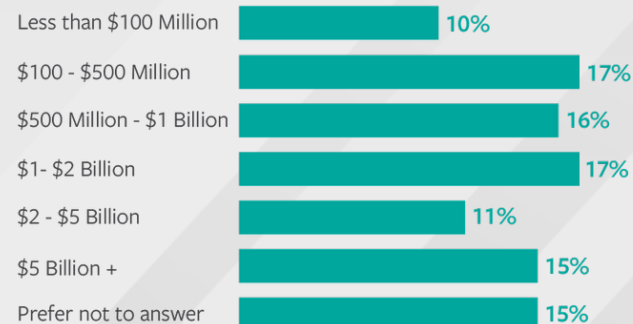
Number of Employees



Geography



Revenue

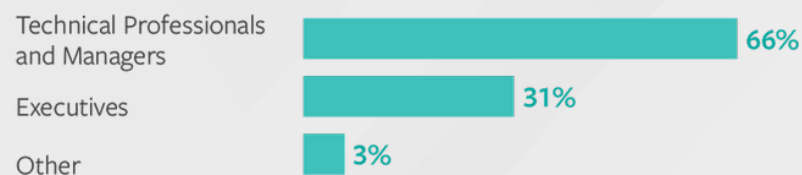


The survey was open between May 15, 2018 and June 1, 2018. It was distributed worldwide and offered in 6 languages: English, French, Italian, Spanish, German, and Portuguese. 1,122 surveys were completed.

Demographics - People



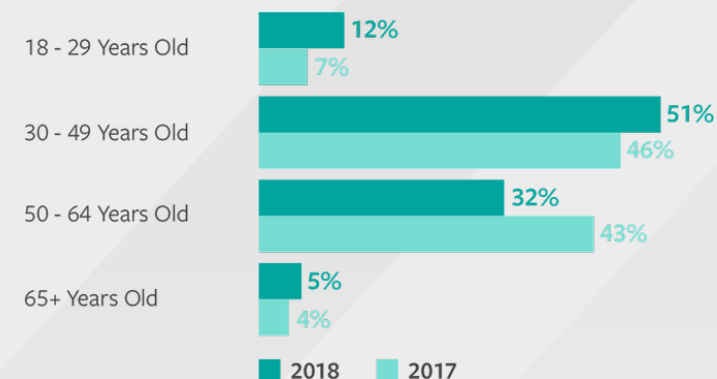
Job Function



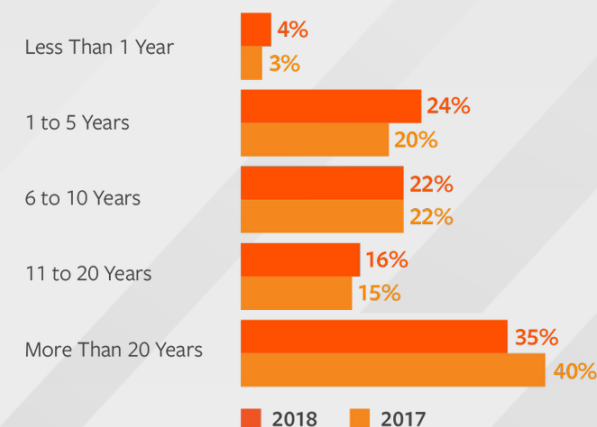
Gender



Age



Years of Experience in a Mainframe Environment



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