**Rocket** software

Use Machine Learning to Overcome These 5 Mainframe Performance Monitoring Challenges

Organizations are encountering myriad challenges with mainframe performance monitoring, from a workforce "brain drain" to overtaxed senior mainframe staff to escalating costs and struggles in meeting ever elevating service level obligations. Thanks to automation, modern UIs, and machine learning (ML), you can navigate these challenges with more ease than ever before. Here are five key hurdles in mainframe performance monitoring and how modern anomaly detection can ensure optimal performance and empower your team to thrive in the digital era.

01

Where you're struggling:
"Brain drain" in the mainframe workforce

Experienced mainframe professionals are retiring, continually increasing the risk of knowledge loss and a growing skills gap. In a 2021 study by Forrester, acquiring mainframe resources and skills was the top challenges for 79% of respondents.
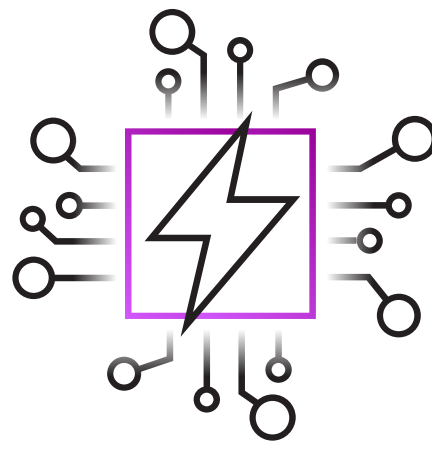
What you can do: Modernize mainframe performance tooling

- Bridge your skills gap with ML-based anomaly detection
- Reduce dependency on expertise by adopting modern tools designed for less proficient staff
- Take control of complexity with a total system view of z/OS® and subsystems

02

Where you're struggling:
Complexity in performance monitoring

Complexity in performance monitoring for mainframe and core transactional systems has become a significant barrier to success for non-experts and even stretched proficient staff under increasing pressure to maintain optimal system operations. With a lack of modern tools that provide automation and visualization amidst steep learning curves for mainframe systems, many teams are finding it difficult to effectively manage mainframe performance.

What you can do: Adopt modern tools and data visualization

- Employ ML against key performance indicators across systems and subsystems to provide actionable insights
- Simplify processes with automation to reduce the learning curve performance monitoring
- Enhance usability with modern UIs that provide intuitive presentation of complex data

03

Where you're struggling: **Increasing risk of outages and performance issues**

Seventy percent of data center outage incidents cost $100,000 or more, with 25% costing more than $1 million. As mainframe environments become more complex and touch more data, applications and systems across the enterprise, there is increasing potential for system degradation that can lead to outages and other performance issues.

What you can do: Proactively monitor for anomalies

- Identify irregular patterns, unexpected events, and potential issues as they begin to emerge, before they escalate
- Act swiftly with unsupervised ML for timely notification and maintain system reliability
- Stay ahead with alerts and notifications for immediate action
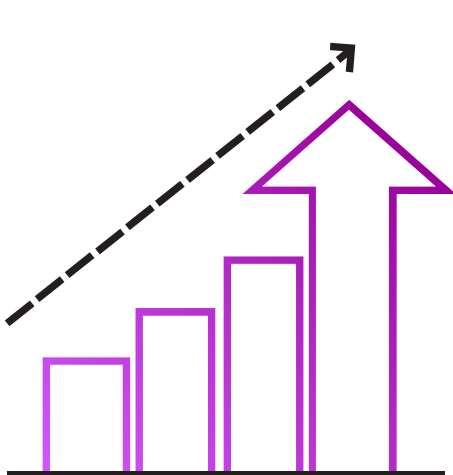
04

Where you're struggling: **Rising Total Cost of Ownership (TCO)**

The rising Total Cost of Ownership (TCO) for mainframe systems is primarily driven by increasing hardware and software costs, as well as the scarcity of skilled professionals to maintain and support these systems. With budget for system operations remaining practically unchanged year-over-year, IT leaders are being asked to do more with less as mainframe costs potentially increase.

What you can do: Reduce TCO with automation

- Automate processes to save time and resources, reducing mainframe management operating costs
- Identify opportunities to optimize performance and capacity for cost savings
- Empower less proficient staff and minimize dependency on expensive expertise

05

Where you're struggling:
Meeting service level obligations

More IT leaders are struggling to meet their organization's service level obligations, citing challenges such as resource constraints and legacy systems. With pressure to maintain higher availability, many are at risk of failing to meet SLAs — and pay penalties for those failures.
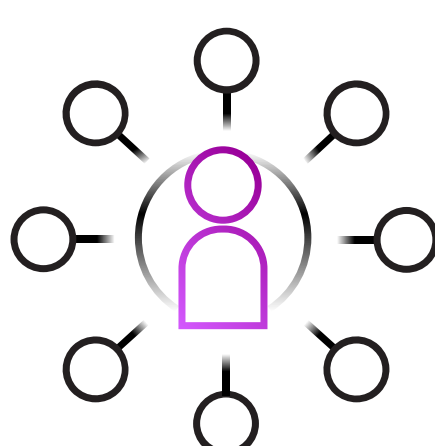
What you can do: Proactive issue assessment

- Proactively identify potential performance issues before they occur, with real-time tracking of performance metrics
- Anticipate potential issues with predictive analytics, such as trend analysis and forecasting

Ready to take the next step?

With Rocket® Anomalytics for TMON Performance Monitors, you can transform your mainframe performance monitoring operations. Seamlessly address the challenges of "brain drain", escalating risks of outages and performance issues, rising Total Cost of Ownership, complexity in performance monitoring, and meeting service level obligations.

Read the white paper   Visit rocketsoftware.com

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