

Custom Tools, Scripts and Accelerators from TxMQ's Services Team http://txmq.com/support-options/

Presenters:

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TxMQ's Story

Founded in 1979

International footprint

Hundreds of successful client partnerships

Trusted 'go to' partner of record for dozens of large system integrators and software companies

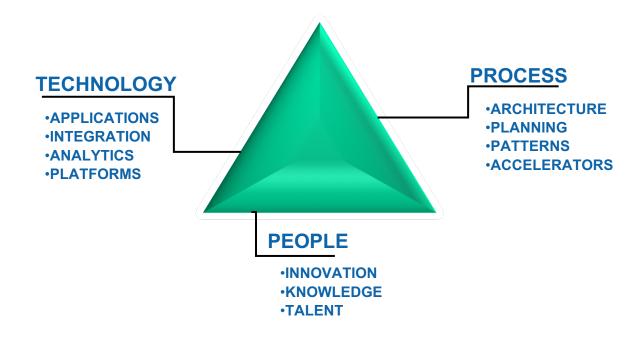
Partnerships & Support for IBM, Oracle, VMWare, Microsoft, Red Hat, and more





TxMQ Solution Approach

At TxMQ, we embrace the balance of *People, Process and Technology* to ensure your projects are successful





Our Background & Capabilities

Deep Expertise in IBM Middleware

- MQ & MQ Advanced (MFT/FTE, MQTT, AMS—Security)
- IIB/App Connect
- DataPower
- API Connect

Strategic and Hands-on Technical Support

- Architecture
- Administration
- Troubleshooting & Production Support
- Development Support



Middleware (IBM MQ) Team Tasks

- Build & Deploy
- Monitor & Manage
- Troubleshoot & Recover
- Discover & Document
- Evaluate & Test



^{*} All these common tasks offer opportunity for automation

- Build & Deploy Queue Manager Build & Deployment Scripts
 - Automation Scripts to create new Queue Managers
 - Deployment Scripts for QMGR's in Prod and lower environments
 - AIX, Windows, z/OS, AS400, Linux
 - On-premise and Cloud
 - VM's/Hypervisors and bare metal
 - Custom scripts and 3rd party/OpenSource automation & deployment tools



- Monitor & Manage Tools to view and monitor MQ traffic and related system health
 - Is MQ Explorer sufficient?
 - Do we really need end-to-end transaction monitoring?
 - What are right tools for your environment?
 - Is it time for Tool Consolidation?
 - Custom Dashboards
 - Custom Administration Utilities
 - Log file management & queries



- Troubleshoot & Recover Scripts to diagnose system issues, and for recovery of MQ Servers and messages
 - MQ is the problem...or is it?
 - Root cause analysis
 - Recovering Queue Managers
 - Recovering messages after outage
 - Log file recovery & review





- Discover & Document Scripts to identify MQ Objects, utilities to capture statistics, and documentation
 - Objects
 - Queues
 - Queue Managers
 - Usage & Performance statistics
 - MQ Network Topology Diagrams, Graphs and other MQ Documentation



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- Evaluate & Test TxMQ's QPacity[™] and test scripts
 - QPacity[™] enables administrators to measure usage and capacity of your MQ infrastructure
 - QPacity[™] scripts support troubleshooting efforts to identify root cause of performance degradation and outages
 - TxMQ supports customers with development of custom test harnesses for new or poorly performing applications





Benefits from Automation

- Repeatability
- Expedites rollouts
- Ensures consistency
- Meets Standards
 - IBM Best Practices
 - Corporate/Industry
 - Security
- Supports DevOps



- BatchSudo
- buildMQ z/OS
- MQ Healthcheck Scorecard





Custom Tools, Scripts and Accelerators BatchSudo:

This is a java program created as a result of not having access to Blade Logic or similar DevOps tools.

Using it, we can specify an xml structure containing a list of commands that need to be invoked on N-number of servers. It uses ssh/sftp under the covers to run commands as "root" and captures their stderr/stdout to a local file, named per server name. It's also multi-threaded, and can chunk through a large list of servers efficiently.

Locally, the commands a placed in temp script file, this file is then sftp'd to targeted servers, it's permission's changed and made executable. In principle it's similar to "Ansible", but less complicated.



BatchSudo:

This is a simple illustration, in the following input XML, we issue three commands (whoami, df, dspmq) on two servers (*.137 and *.138):



BatchSudo:

This would result in the following two log files:

```
192.168.27.137.log
                                                                                                                                                   192.168.27.138.log
```



buildMQzOS:

Utility to create Qmgrs on z/OS by processes a single parameter file, build jobs and procs, and submit them into FTP's JES.

- Eliminates mis-typing of parms and debugging efforts involved
- Accurate, Efficient and Fast
- Could have easily been written in any number of languages or scripts.
- I chose vbscript to because it's most non-native to MVS





buildMQzOS:

- 1. Customize INI Parm file
- 2. Run buildMQzOS script

buildMQzOS processes a sub-directory of template procs and jobs, substituting custom parms into a new set of procs/jobs and submits them in order.

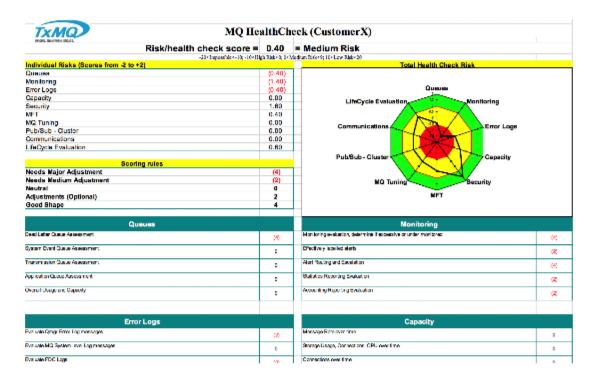
Jobs Created:

- xxxxBSDS Creates Bootstrap and log Data Sets
- xxxxTXMQPAGE Allocate the page set data sets Defines you pagesets:
- xxxxDGDG If Exist Delete Generation Data Group / Re-create
- xxxxZPRM Assemble and link a new system parameter module



MQHealthcheck Scorecard:

This is a template (excel spreadsheet) organized and designed to help facilitate thorough evaluations of a client's QMgr Systems.





Digital Business Transformation

We help companies
evolve their
technologies to meet
the demands of the
digital economy.

- Application Integration
- API Economy
- Business Process Management
- Automated Decision Management
- Robotic Process Automation
- Mobility



Decades of Experience

TxMQ's deep experience in Enterprise Architecture provides the foundation for our solutions

- Business Impact
 - Improve efficiency
 - New revenue opportunities
 - Time to value

- Enterprise Grade
 - Security & Stability
 - Performance & Scalability
 - Integration



TxMQ Account & Services Team



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