



MDTest

Test Driven Development:
Let's Automate Unit Testing

MDNA MIDRANGE DYNAMICS
NORTH AMERICA

Speakers



Mike Pavlak

Mike Pavlak has been working with IBM midrange solutions since 1992. Mike was instrumental in developing the adoption of PHP as a primary solution for web development on IBM i working with Zend Technologies. Today, as Solutions Engineer with Perforce, Mike helps companies around the world approach the challenges of modernization and open source technologies.



Donna Westmoreland

Donna is the CTO for MDNA and has over 25 years of experience with IBM midrange systems and supporting consistent software change methodologies. Experience gained from leading major projects, including application modernization, at 100s of corporations has given her a well-rounded view of development needs, audit requirements, and testing principles.



Mystery Guest?

Mystery Speaker



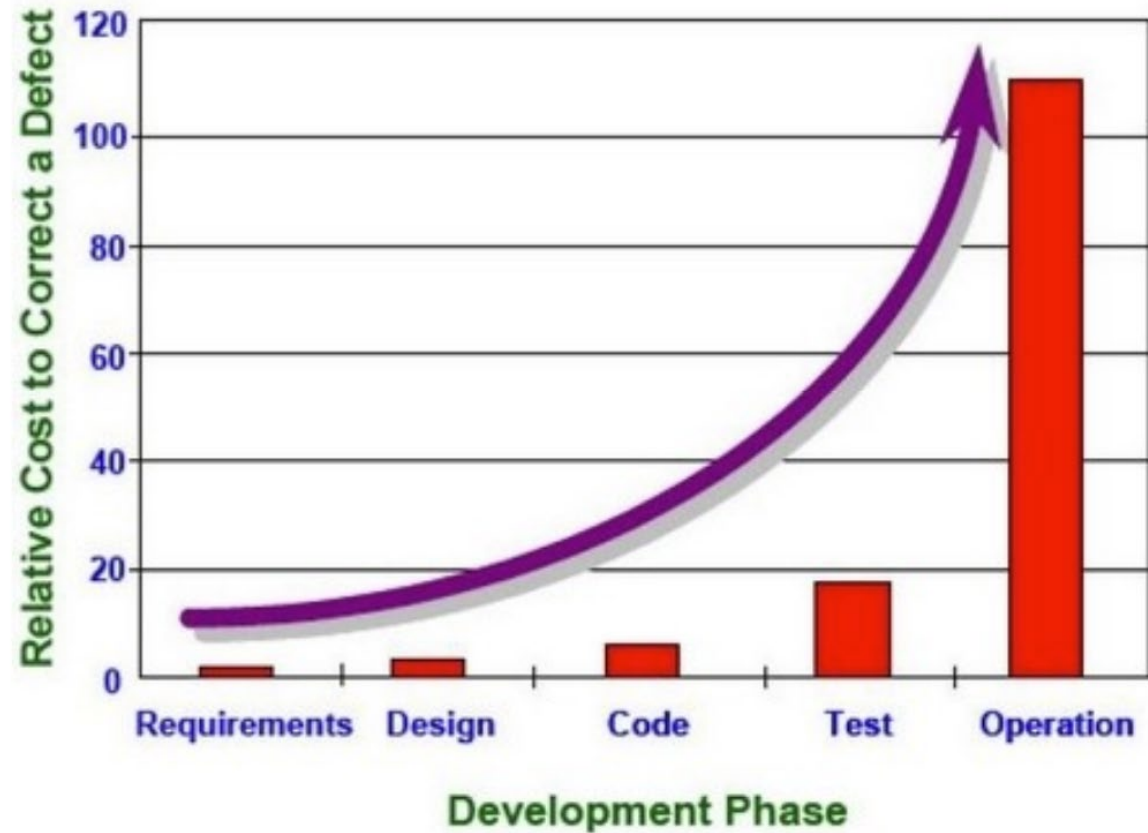
Michael Morgan

Michael was born and raised in Battle Creek, MI, and studied Computer Science at Michigan Technological University. In 1993, he moved to Seattle, WA, where he began to develop Midrange Dynamics change management. He has lived in Switzerland since 1998. When not working hard on the next MD release, he's playing hard: alpine skiing, bicycling, or diving, depending on the season.

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Unit Testing

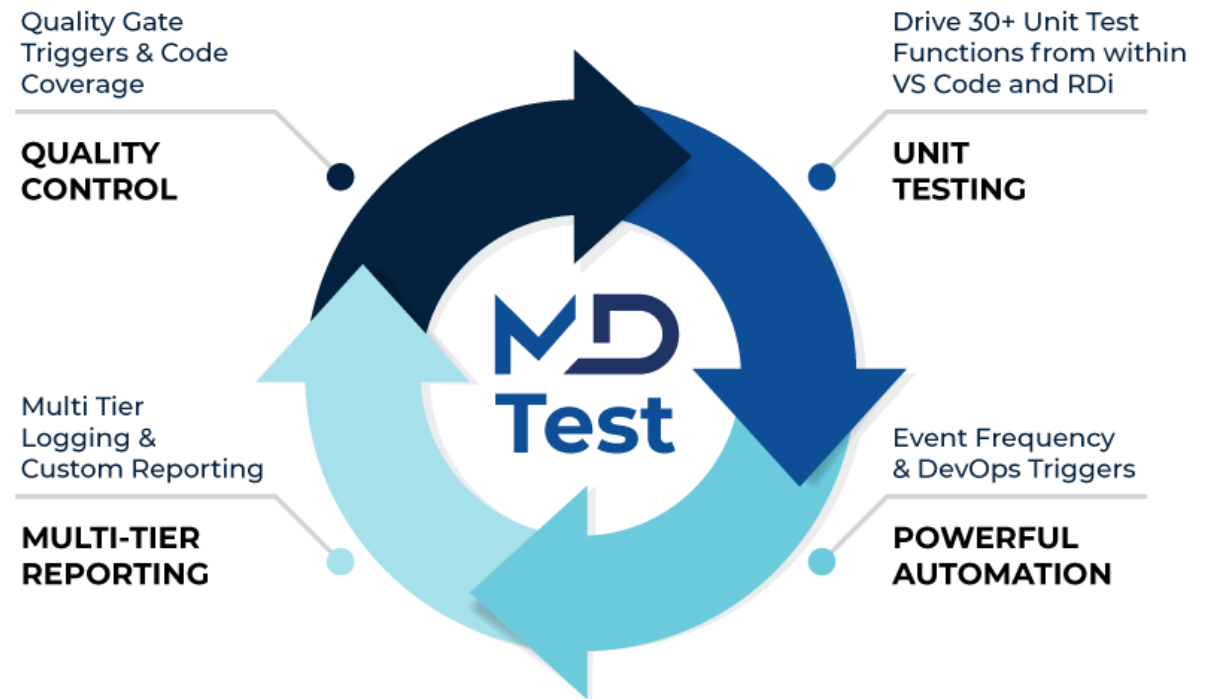
- Shift left
- Reduce costly rework
- Faster throughput
- Code coverage
- Improved quality

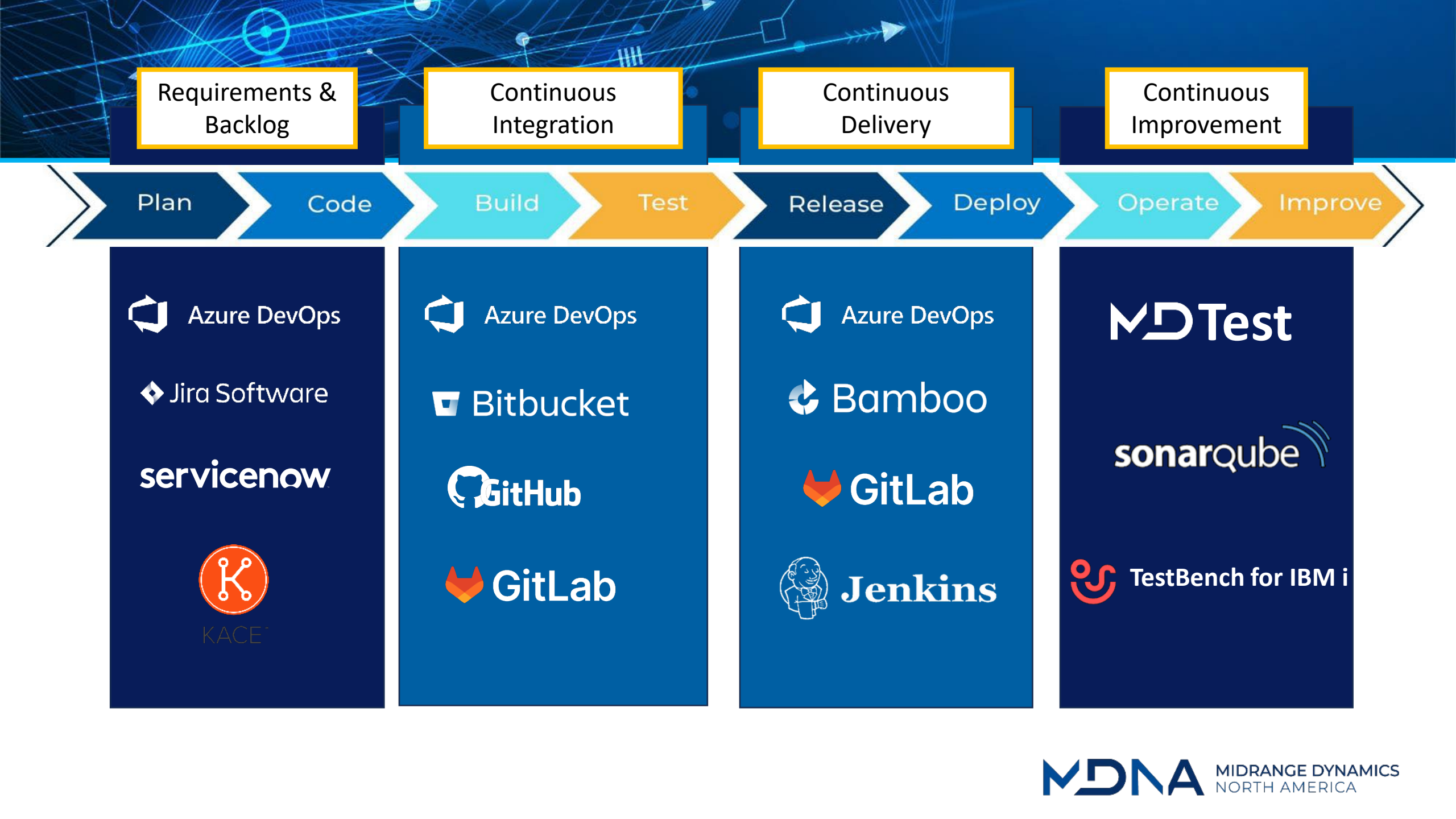


MDTest

Automated Unit Testing

- Automation? Yes!
- Quality Gates
- Code Coverage
- Performance Test
- Policy Driven Pass/Fail Criteria
- Reporting





Requirements & Backlog

Continuous Integration

Continuous Delivery

Continuous Improvement

Plan

Code

Build

Test

Release

Deploy

Operate

Improve

Azure DevOps

Jira Software

servicenow



KACE

Azure DevOps

Bitbucket

GitHub

GitLab

Azure DevOps

Bamboo

GitLab

Jenkins

MDTest

sonarqube

TestBench for IBM i

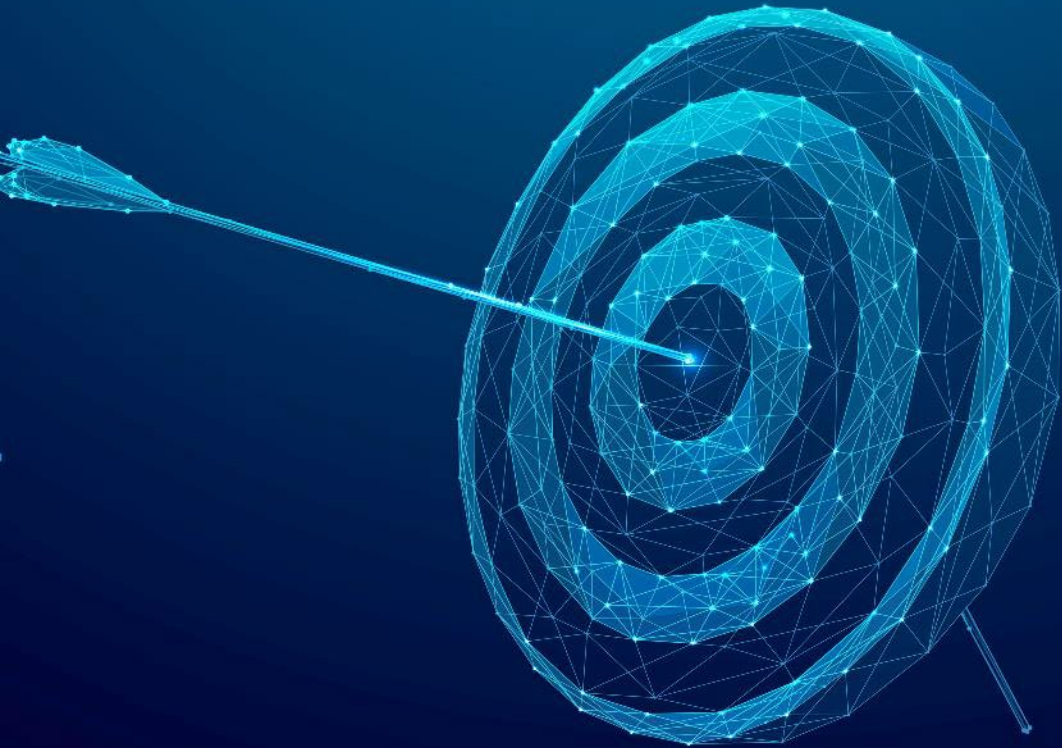
Rich Toolbox of Unit Test Functions

- Execute Any Process
- Code Coverage
- Performance Measurement
- Error Handling
- Condition Functions
 - Range/Within/Without
 - Contains/Not Contained
 - Array Lookup
 - RegEx

Powerful Automation

- Trigger tests by a deployment event or on-demand
- Group test batches by object, object class, deployment package or time period
- Optional pre-testing of test-suite by developer prior to deployment
- Invoke any number of commands and SQL statements
- Granular control of when to abort and which steps must always run
- Control quality gates based on result. Ability to be overridden by authorized users.
- Integration with TestBench for QA testing and SonarQube for code review

Layered Result Reporting



- Top-level summaries for quick understanding of results
- Interactive drill-down
- Reusable custom filters
- Code coverage details per module
- Performance details
- Custom reporting categories
- Tagging, isolation & inclusion of relevant job log data
- Downloadable content

Reusable Templates

- Define sequences of commands or SQL statements
- Include any pre and post test operations
- Link to MDCMS attributes
- Generic filters to include/exclude specific objects
- Include/exclude recompiles or deletions
- Use MDCMS wildcards
- Group granular test definitions
- Pass/fail condition controls



Live Demo



- **Contact Us to Get Started**

- Email info@md-na.com

- On the web:

<https://www.md-na.com/schedule-a-demo/>

- **About Our Solutions**

www.md-na.com

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