

# DELIVERON CONSULTING SERVICES

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*Partner*

What's New for Testing in Visual Studio 2010 and TFS  
2010

# About Mike Douglas

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- Presentations
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# Deliveron Consulting Services

- Located in Omaha, NE
- Microsoft Certified Gold Partner
- Custom .NET Application Development
- BizTalk, SharePoint, SQL Server, and TFS
- Signup for Newsletter
  - ▣ <http://www.deliveron.com>
- Slides will be available soon at our new blog
  - ▣ <http://www.deliveron.com/blog>

# Agenda

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- VS and TFS 2010 Landscape
- QA Experience
- Developer Experience
- Demos
- Tracking the Testing

# Visual Studio 2010 Test Clients



## VS 2010 Ultimate

- Defining Testing Effort
- Create and Run Manual Tests
- Record Test Steps for Playback
- Create and Run Automated UI Tests
- Collect and Add Diagnostic Data to Bugs
- Find Tests to Rerun based on Code Changes
- Testing Progress Reporting
- Performance and Stress Testing

## VS Test Professional 2010

- Defining Testing Effort
- Create and Run Manual Tests
- Record Test Steps for Playback
- Run Automated UI Tests
- Collect and Add Diagnostic Data to Bugs
- Find Tests to Rerun based on Code Changes
- Testing Progress Reporting

## VS 2010 Premium

- Create and Run Automated UI Tests

## VS 2010 Professional

- Unit Tests

# Microsoft Test Manager

1 Start Microsoft Test Manager from the Start menu

2 Use the Testing Center to define your testing effort

Testing Center Plan Test Beta Test Plan

Contents Properties Open Items (0)

Contents

New Beta Test Plan

Test suite: Beta Test Plan  
Default configurations (1): Vista and IE 8  
State: In progress

Open Add New Assign Configurations

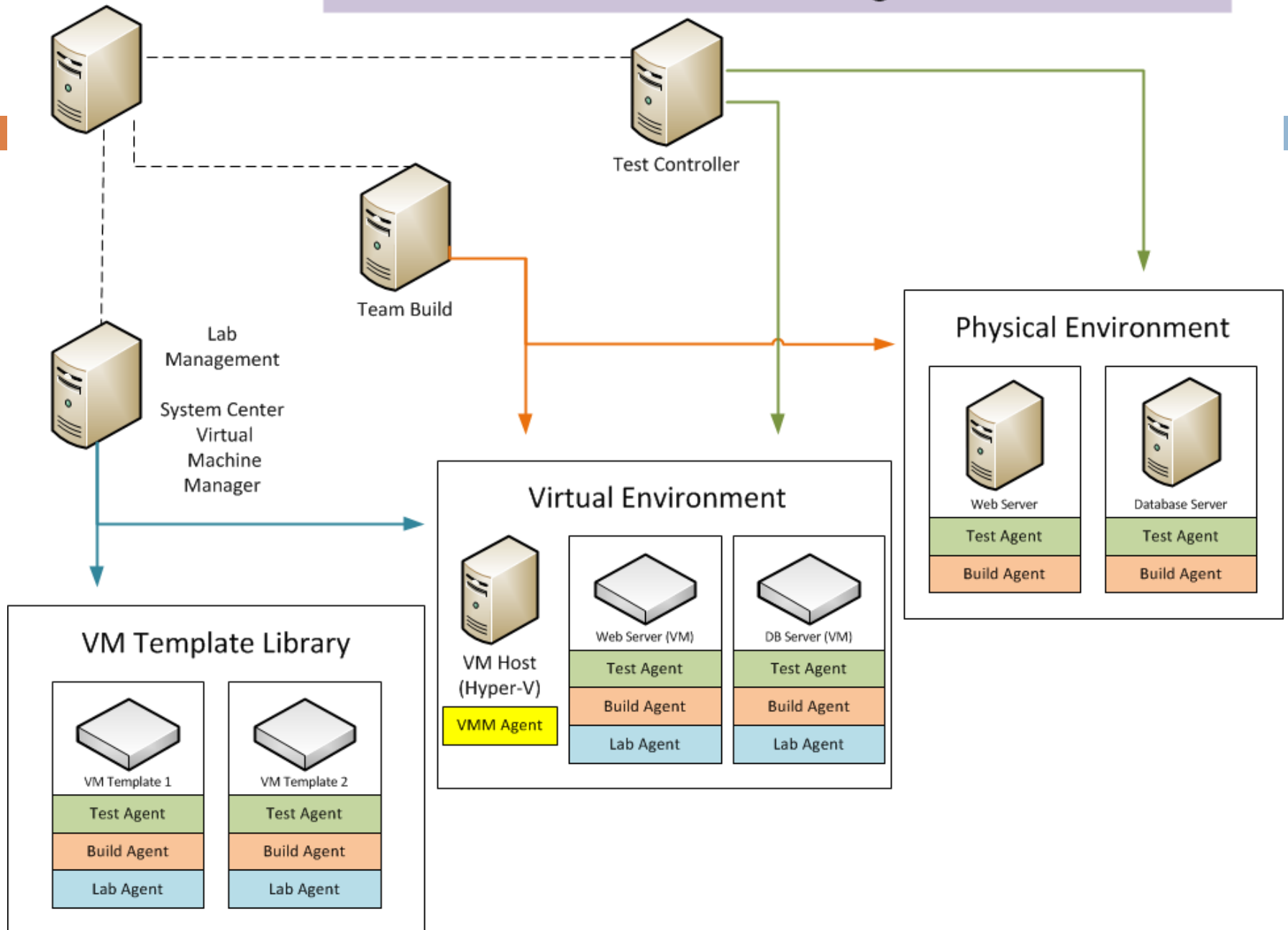
Drag a column header here to group by that column.

Order	ID	Title	Priority
1	12781	Add to Shop	

**Not Visual Studio!!!**

# Visual Studio 2010 Testing Architecture

Team Foundation Server



# QA Experience

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- Define a Test Plan
- Author and Organize Test Cases
- Execute Tests
- File Actionable Bugs
- Pick a Build and Determine Which Tests to Run

# Developer Experience

- Implement Remaining work
- Review and fix bugs
  - ▣ Utilize IntelliTrace from QA
  - ▣ View Diagnostic Data from Environment
  - ▣ Restore Environment from Snapshot
- Promote manual test cases to automated regression tests
- Pick a Build and Determine Which Tests to Run

# Demos

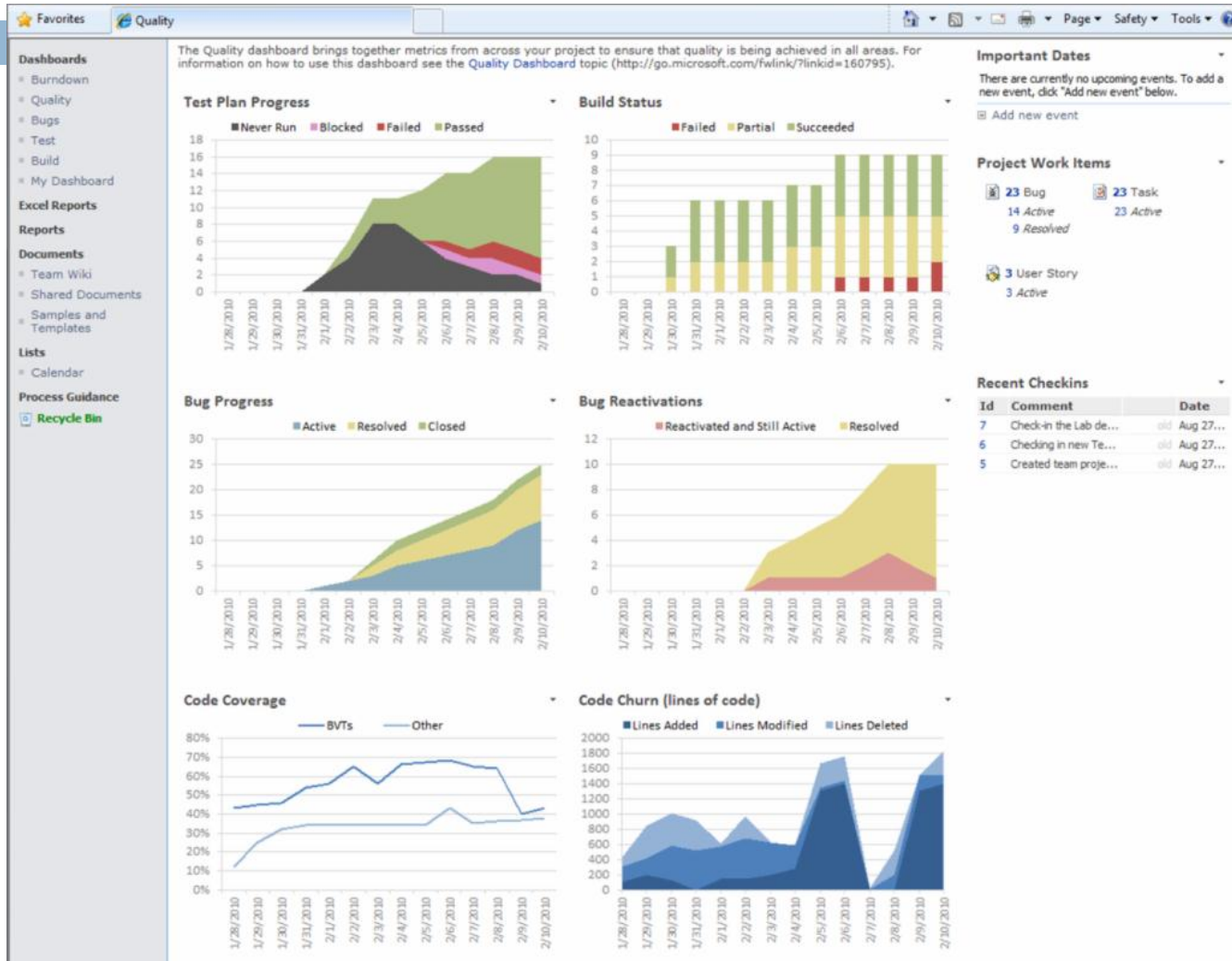
- QA: Create a test plan
- QA: Create a test
- Lead QA/Dev: Provision Virtual Environment
- QA: Manual Test, filing rich bug information and environment snapshot.
- Dev: Review Coded UI Tests
- Dev: Automate Build-Deploy-Test Process

# Tracking Testing

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- Quality Dashboard
- Test Dashboard
- Test Manager Test Plan

# Quality Dashboard



# Test Dashboard

## Dashboards

- Burndown
- Quality
- Bugs
- Test
- Build
- My Dashboard

## Excel Reports

## Reports

## Documents

- Team Wiki
- Shared Documents
- Samples and Templates

## Lists

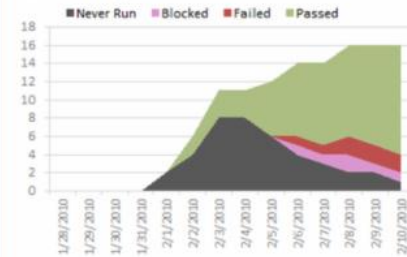
- Calendar

## Process Guidance

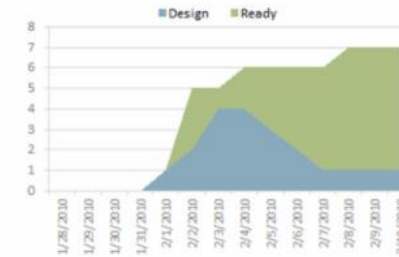
- Recycle Bin

The Test dashboard provides an overview of the readiness of the test team and progress toward testing the product. For information on how to use this dashboard see the [Test Dashboard](http://go.microsoft.com/fwlink/?linkid=145653) topic (<http://go.microsoft.com/fwlink/?linkid=145653>).

### Test Plan Progress



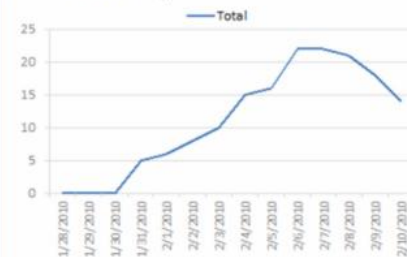
### Test Case Readiness



### User Story Test Status



### Manual Test Activity



### Test Failure Analysis



## Important Dates

There are currently no upcoming events. To add a new event, click "Add new event" below.

Add new event

## Project Work Items

23 Bug  
14 Active  
9 Resolved

23 Task  
23 Active

3 User Story  
3 Active

## Recent Checkins

Id	Comment	Date
7	Check-in the Lab de...	old Aug 27...
6	Checking in new Te...	old Aug 27...
5	Created team proje...	old Aug 27...

# Test Manager Tracking

The screenshot displays the Microsoft Test Manager interface for a test plan named "Test Plan 4: Iteration 2". The interface is divided into several sections:

- Header:** "Testing Center" with tabs for "Plan", "Test", "Track", and "Organize". The current view is "Properties" for "Iteration 2".
- Test Plan Details:**
  - Name: Iteration 2
  - Description: Focus on improving site security and overall UI look and feel.
  - Owner: TFS Setup
  - State: Active
  - Start date: 11/9/2009
  - End date: 12/8/2009
  - Area path: IBuySpy
  - Iteration: IBuySpy\Iteration 2
- Run Settings:**
  - Manual runs:** Test settings: Full Diagnostics (Open); Test environment: <Local> (Manage)
  - Automated runs:** Test settings: <Default> (Open); Test environment: None (Manage)
  - Builds:** Filter for builds: IBuySpy Build and Deploy; Build in use: IBuySpy Build and Deploy\_20091027.1 (Modify)
  - Configurations:** In this plan: Firefox 3.5 and Win7, Windows 7 and IE8
- Results Overview:**
  - Tests:** 4 Blocked (44.4%), 3 Passed (33.3%), 2 Failed (22.2%)
  - Failures by Type:** 1 Regression (16.7%), 2 New issues (33.3%), 3 Known issues (50%)
  - Test Analysis by Type:** 3 Product issue (50%), 2 Needs investigation (33.3%), 1 Configuration issue (16.7%)

# New Testing Tools Introduced

- Lab Management 2010
- Visual Studio Test Professional 2010
- Test Manager 2010 (MTM)
  - ▣ Testing Center / Lab Center
- Microsoft Test Runner
- Test Impact
- Microsoft Environment Viewer
- Agents
  - ▣ Test, Build, and Lab

# Resources and References

- Lab Management 2010 VHD Walkthrough  
[http://blogs.msdn.com/lab\\_management/archive/2010/02/12/one-box-lab-management-walkthrough.aspx](http://blogs.msdn.com/lab_management/archive/2010/02/12/one-box-lab-management-walkthrough.aspx)
- Brian Keller Speakflow VS 2010 Testing Presentation  
<http://www.speakflow.com/View.aspx?presentationID=ac460729-6cce-4deb-8f09-5faa5873f027&mode=presentLocally>
- Getting Started with Lab Management  
[http://blogs.msdn.com/lab\\_management/archive/2010/02/16/getting-started-with-lab-management-vs2010-rc-part-1.aspx](http://blogs.msdn.com/lab_management/archive/2010/02/16/getting-started-with-lab-management-vs2010-rc-part-1.aspx)