Build Automation in TFS 2010

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Agenda

- Overview of Builds in TFS 2010
- Demo
  - Creating a build definition
  - Customizing a build definition
- Protecting TFS 2008 Build Investment
- VS 2008 Build Experience
Build automation is not …
Build automation helps you answer the tough questions

- Do our bits create a product?
- Are we on schedule?
- Is our product high quality?

Build automation makes it trivial to take the pulse of your team
Team Foundation Build 2010

- Core feature of TFS – do not pay extra
- Industrial strength build automation
- Provides the “F5” experience for your team
What’s New in TFS 2010

- Windows Workflow 4.0 based
- Gated Check-ins
- Private Builds
- Build Controller architecture
- Properties for common customizations
- Integration with Symbol and Source server
- Advanced build delete options
Demonstration

CREATING A BUILD DEFINITION
Team Foundation Build Key Features

• Build Management inside IDE
• Build Triggers (Manual, CI, Scheduled)
• Gated / Private Builds
• Integrated with VC + WIT
• Reports for status + quality metrics
• Warehouse support for historical trends
• Build Notifications
• Managed Object Model
• Distributed Build Servers
Team Build Architecture

- TFS Project Collection
- Queues
- Build Controller
- Selects
- Build Agent
- Executes
- Builds
- Publishes
- Symbol Server
- Copies
- Drop Server
Customizing the Build

- Build Process Parameters
- Customize Workflow
- Extend Workflow
Demonstration

CUSTOMIZING THE BUILD DEFINITION
Using MSBuild Based Builds

- UpgradeTemplate for old TFSBuild.proj style builds
- Default when upgrading from TFS2008
- Can be used for new builds if desired
VS 2008 Client Compatibility

Can
• Queue Build
• Trigger CI Builds
• Edit Build Qualities
• Set Keep Forever
• View Build Results
• Check-in to Gated Builds

Cannot
• Perform Private Builds
• Edit New Build Definition*
• Edit New Build Process*
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