

# Build Automation in TFS 2010

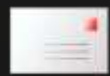
Martin Woodward

Senior Software Engineer, MVP

Teamprise



# Martin Woodward



[martin@teamprise.com](mailto:martin@teamprise.com)



[@martinwoodward](https://twitter.com/martinwoodward)



<http://www.woodwardweb.com>



<http://www.radiotfs.com>



# 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

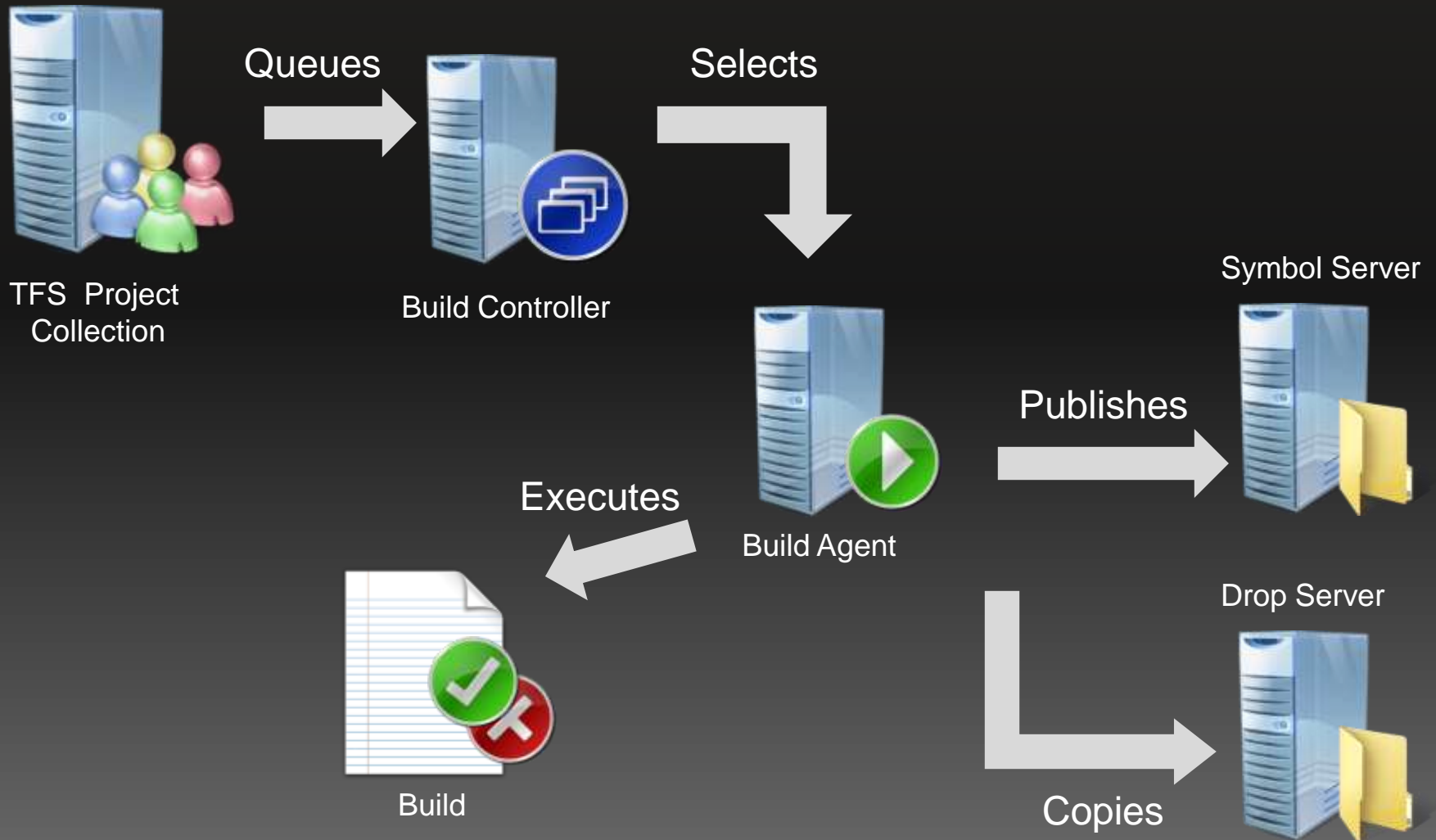
Demonstration

# **CREATING A BUILD DEFINITION**

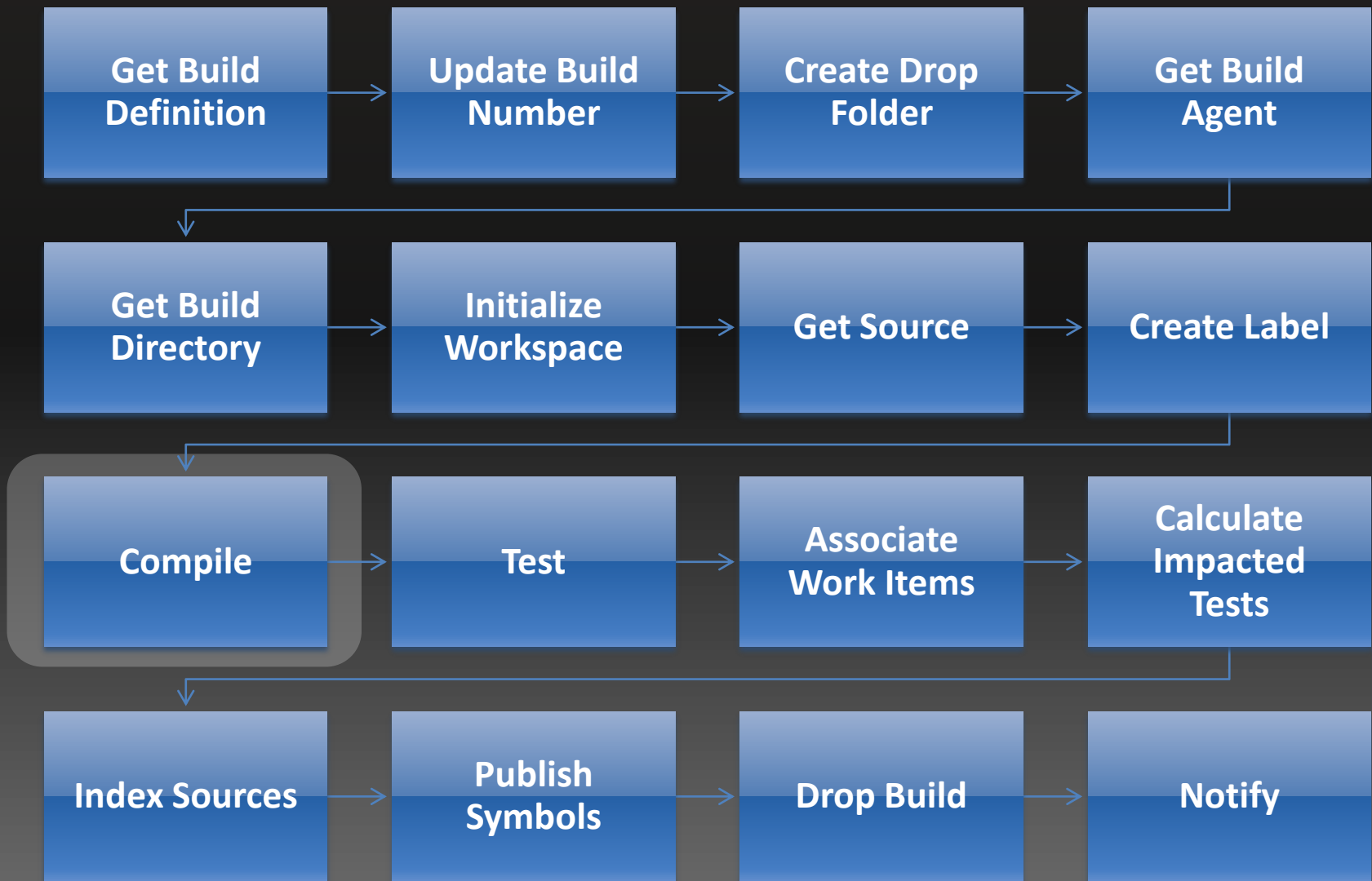
# Team Foundation Build Key Features

- 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



# Team Build Process



# 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<sup>¥</sup>

## Cannot

- Perform Private Builds
- Edit New Build Definition\*
- Edit New Build Process\*

Wrap Up

Q&A

Martin Woodward  
martin@teamprise.com

# Martin Woodward



[martin@teamprise.com](mailto:martin@teamprise.com)



[@martinwoodward](https://twitter.com/martinwoodward)



<http://www.woodwardweb.com>



<http://www.radiotfs.com>

