Continuous Inspection with Team Foundation Server

This guide will show you how to integrate Kiuwan inspections in your software development cycle using Team Foundation Server.

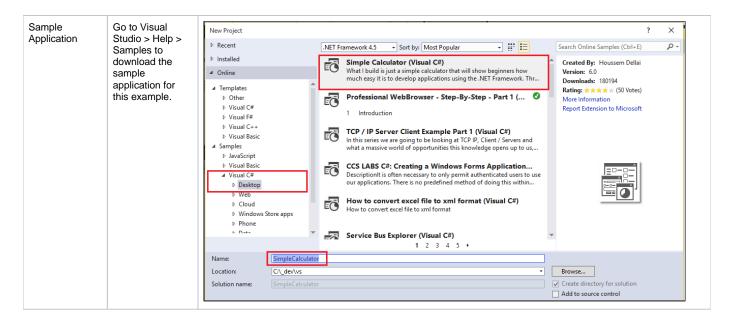
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Requirements

Requirement	Description	Image
Visual Studio 2013 and Team Foundation Server 2013	Both installed "on-premises".	
Kiuwan Local Analyzer	Installed on every machine where a TFS Build Agent is installed. Log into your Kiuwan Account via the KLA to ensure a working connection. Your credentials will be saved in a cipher form for subsequent analysis when they are run from the command line interface as well. Assuming kiuwan has been installed in c: we need to create a small script that will be invoked from the TFS build agent.	Queue a build Team Foundation Server Team Project Collection A Build Controller A Build Agent A.1 Build Agent A.1 Kiuwan

@echo off :: tfs2kiuwan .cmd :: script to launch kiuwan analysis from team foundation server build. :: ---------------_____ _____ ----setlocal set KIUWAN_HOM E=C: \KiuwanLoc ${\tt alAnalyzer}$ set KIUWAN=% KIUWAN_HOM Е% $\bin\agent$.cmd %KIUWAN% c -n "% TF_BUILD_B UILDDEFINI TIONNAME%" -1 "% TF_BUILD_B UILDNUMBER %" -s "% TF_BUILD_S OURCESDIRE CTORY%" endlocal

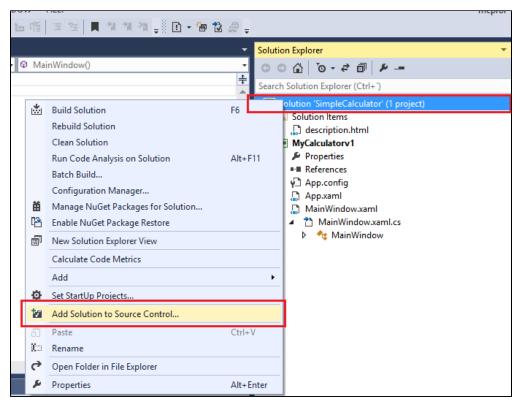


1. Download sample application

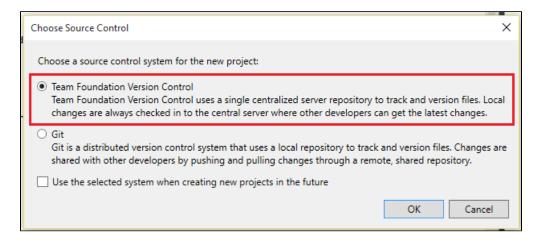
Download the sample application as described in the requirements.

2. Add the application to Source Control

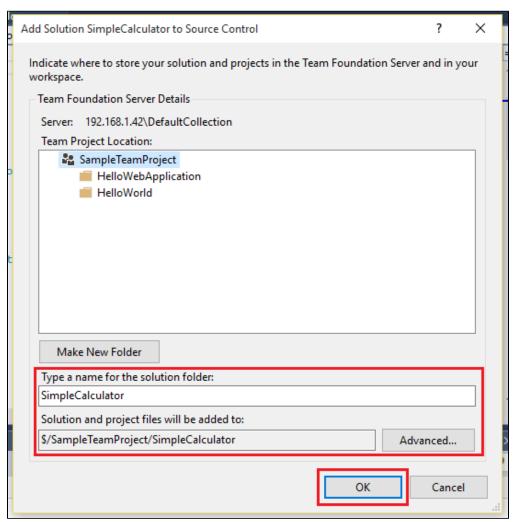
In Solution Explorer, right-click on the SimpleCalculator solution. Then go to Add Solution to Source Control.



A new dialog appears: Choose Source Control backend. Select Team Foundation Version Control.



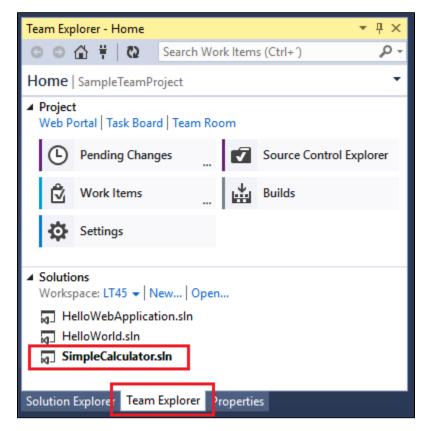
Finally, select a **TeamProject** where to place this project and create the solution folder.



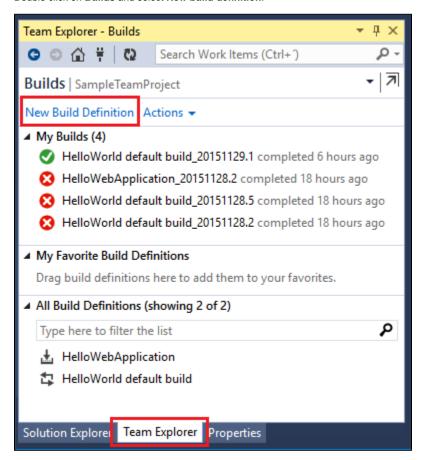
3. Build definition

Once the solution is created in TFS, define a new build process for the solution.

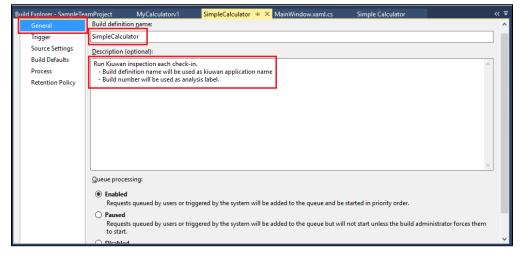
Open the **Team Explorer** tab.

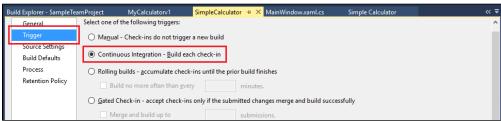


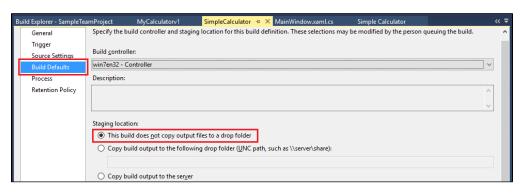
Double click on Builds and select New build definition.

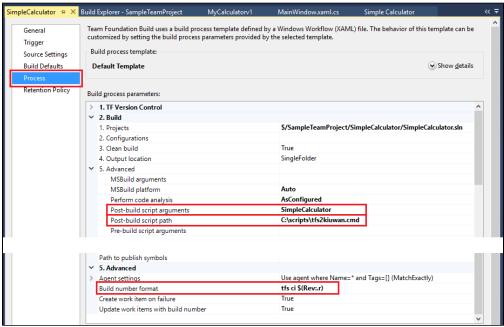


Below, the images of the dialog boxes to configure the build definition:



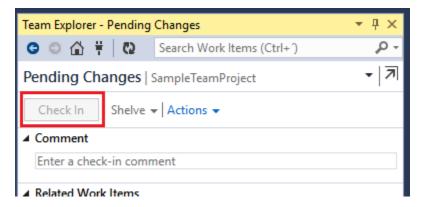




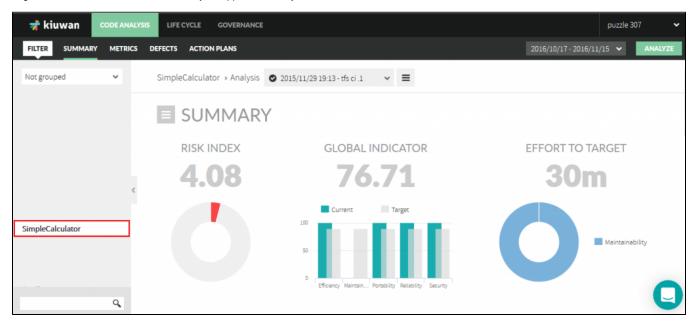


4. Commit the changes and get the analysis results in Kiuwan

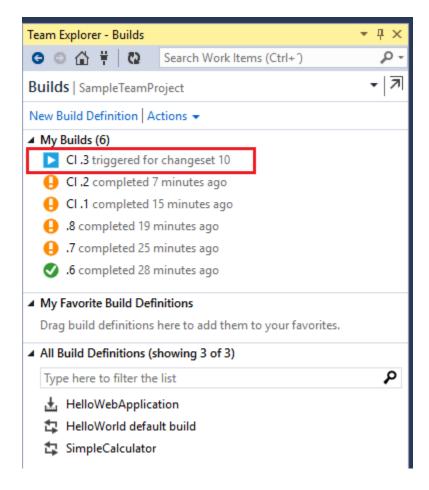
Commit the changes to the repository. A new build will be automatically triggered.



Login to kiuwan.com to see the results for your application analysis.

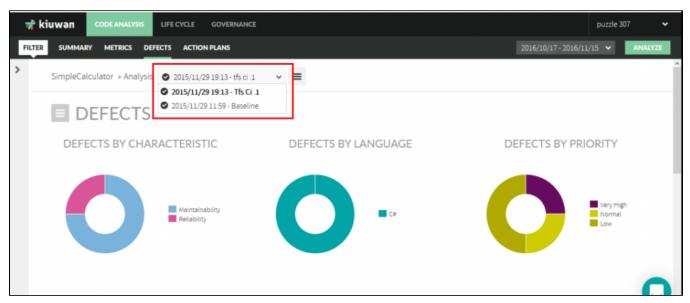


For each commit in the repository, a new build and analysis will be run automatically:

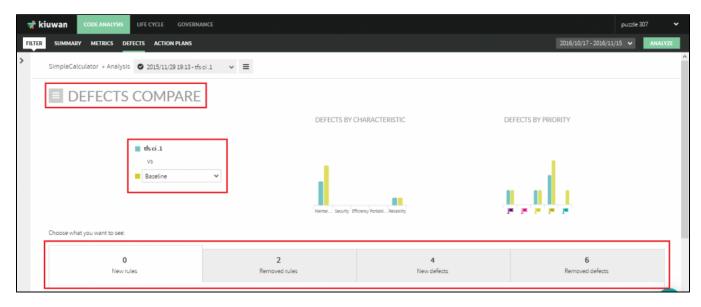


5. Compare each commit against the previous

Each analysis will generate a new version in Kiuwan. You can see all the builds in the Analysis drop-down list:



Click **Compare** to see a defect comparison between both analyses.



Now you have a continuous analysis of all your builds in Kiuwan.