

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

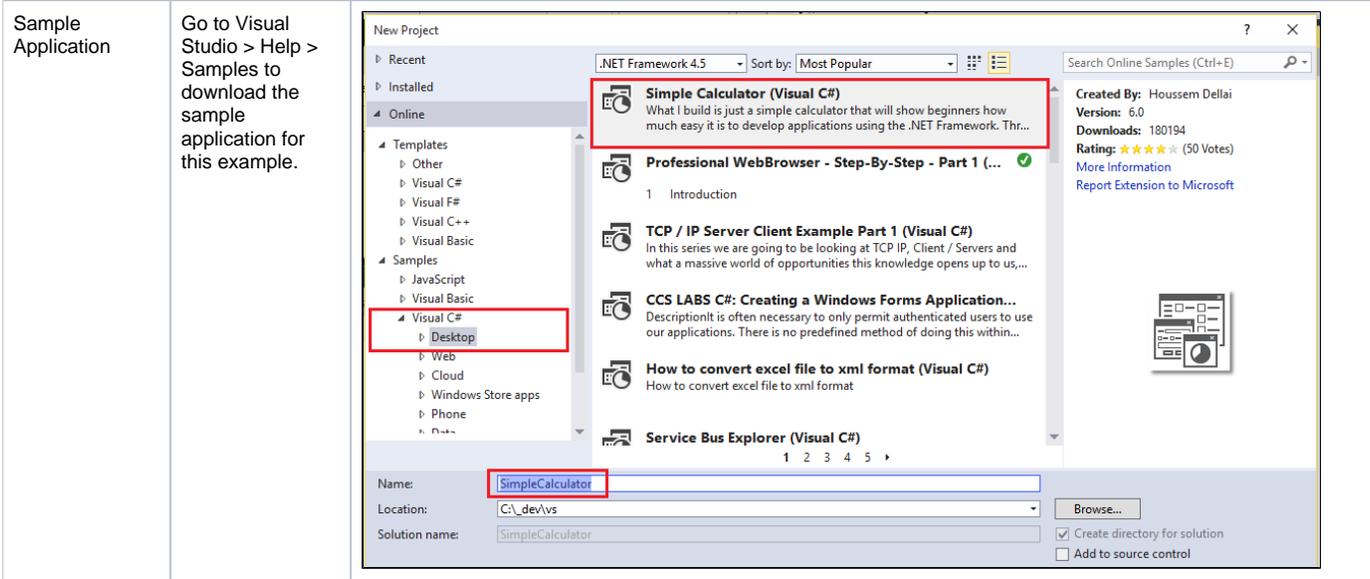
Requirement	Description	Image
Visual Studio 2013 and Team Foundation Server 2013	Both installed "on-premises".	
Kiuwan Local Analyzer	<p>Installed on every machine where a TFS Build Agent is installed.</p> <p>Log into your Kiuwan Account via the KLA to ensure a working connection.</p> <p>Your credentials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

```
@echo off
::
tfs2kiuwan
.cmd
:: script
to launch
kiuwan
analysis
from team
foundation
server
build.
::
-----
-----
-----
-----
-----
-----
-----
-----
setlocal

set
KIUWAN_HOM
E=C:
\KiuwanLocalAnalyzer
set
KIUWAN=%
KIUWAN_HOM
E%
\bin\agent
.cmd

%KIUWAN% -
c -n "%
TF_BUILD_B
UILDDEFINI
TIONNAME%"
-l "%
TF_BUILD_B
UILDNUMBER
%" -s "%
TF_BUILD_S
OURCESDIRE
CTORY%"

endlocal
```

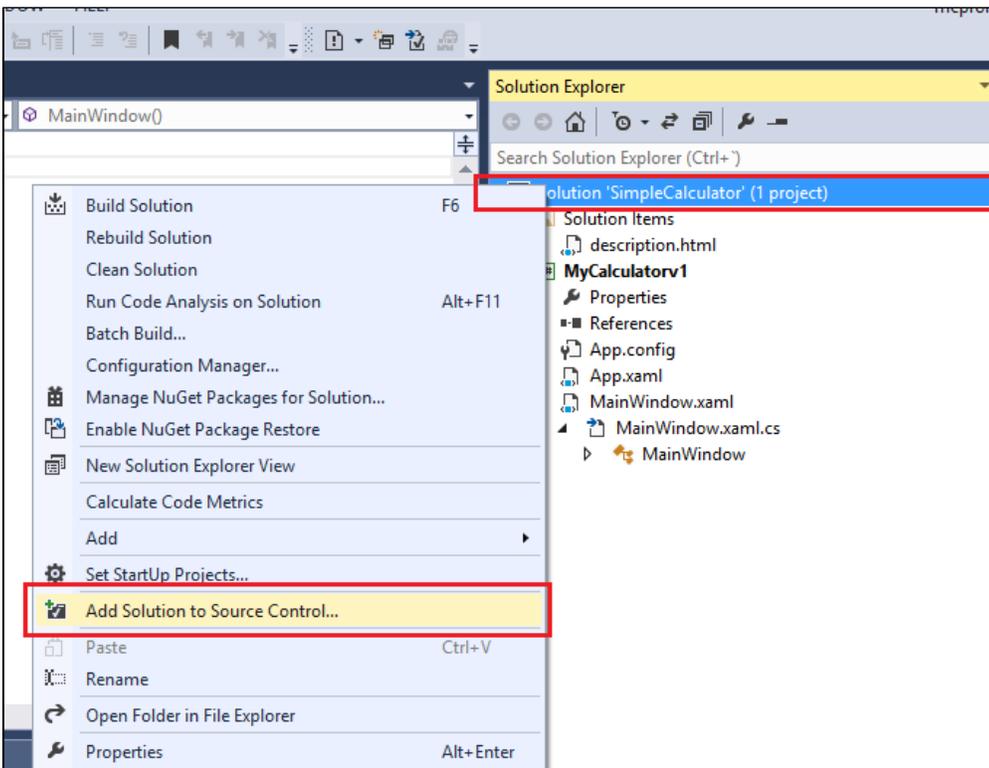


1. Download sample application

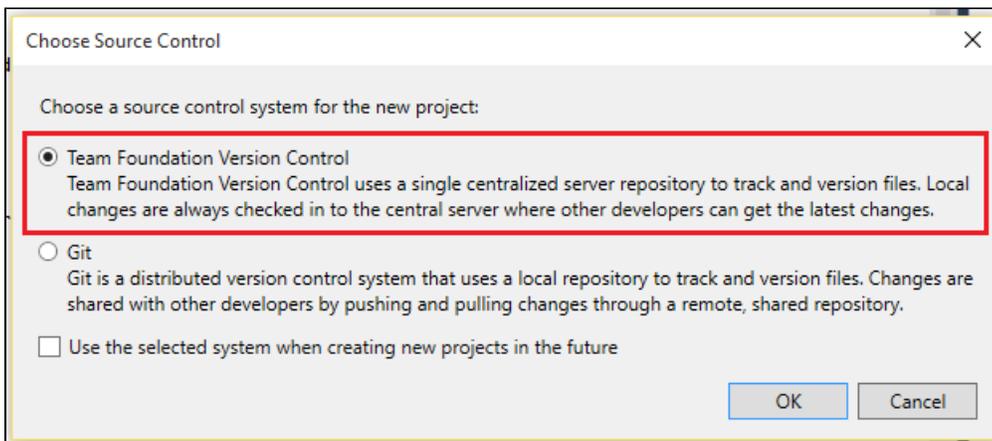
Download the sample application as described in the requirements.

2. Add the application to Source Control

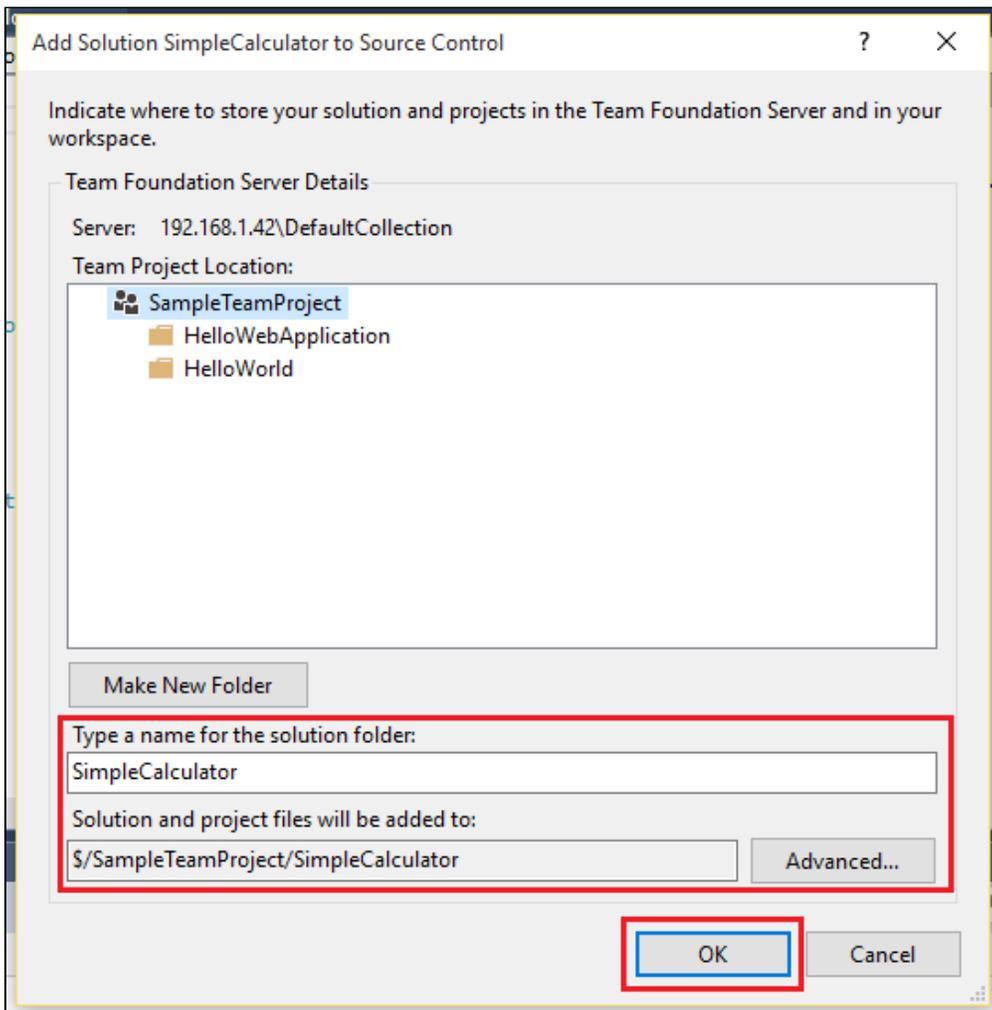
In **Solution Explorer**, right-click on the **SimpleCalculator** solution. Then go to **Add Solution to Source Control**.



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



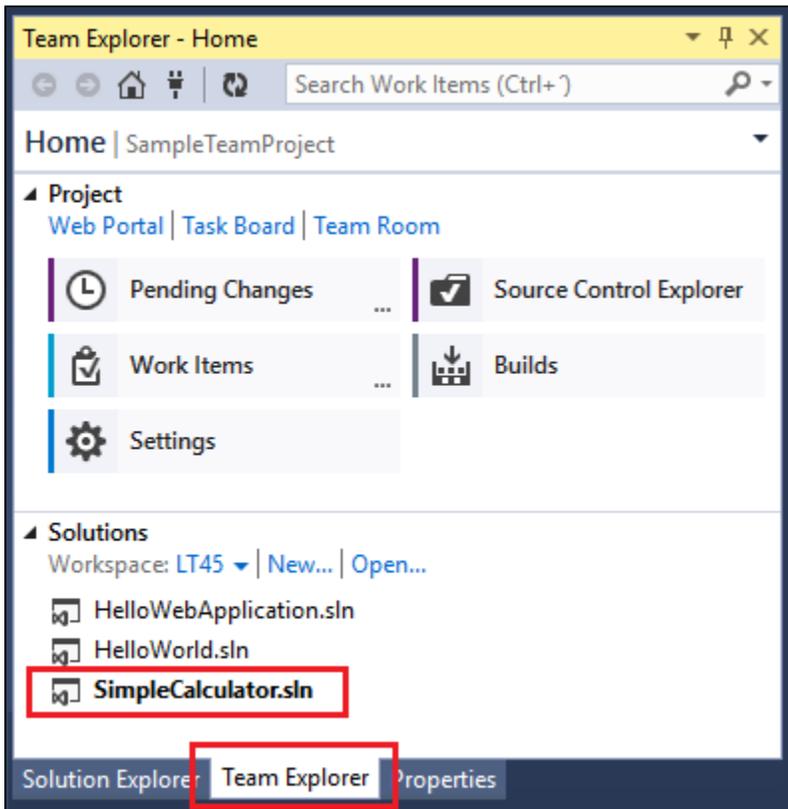
Finally, select a **TeamProject** where to place this project and create the solution folder.



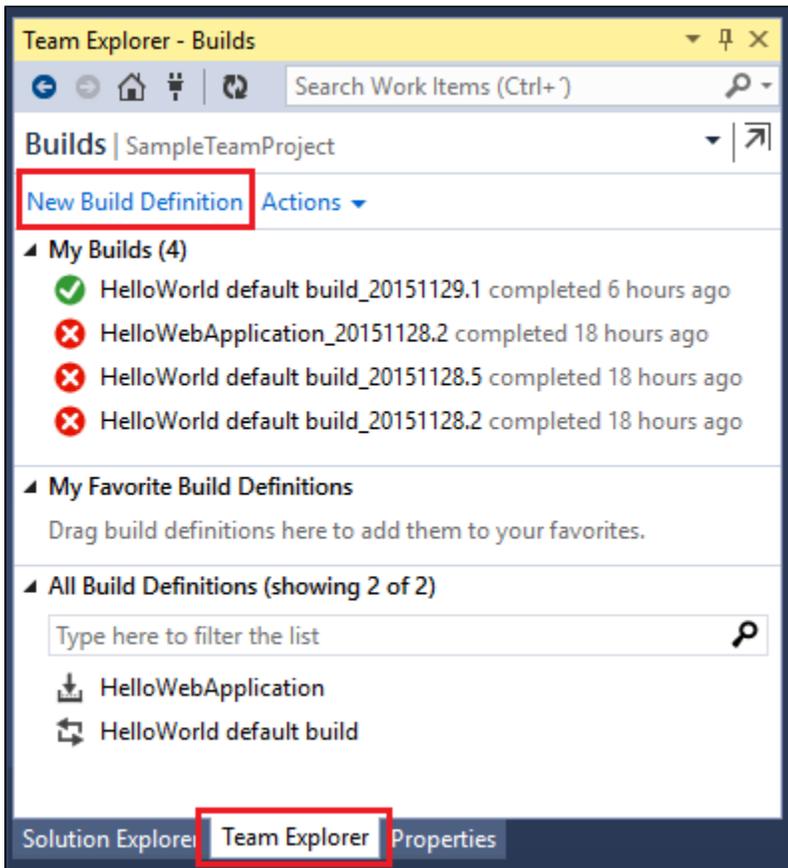
3. Build definition

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

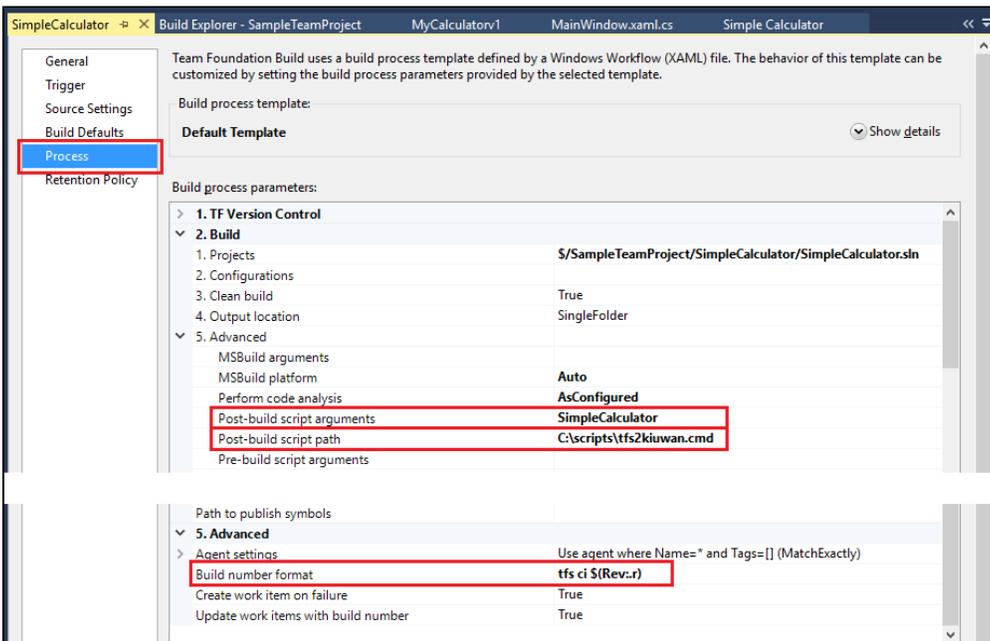
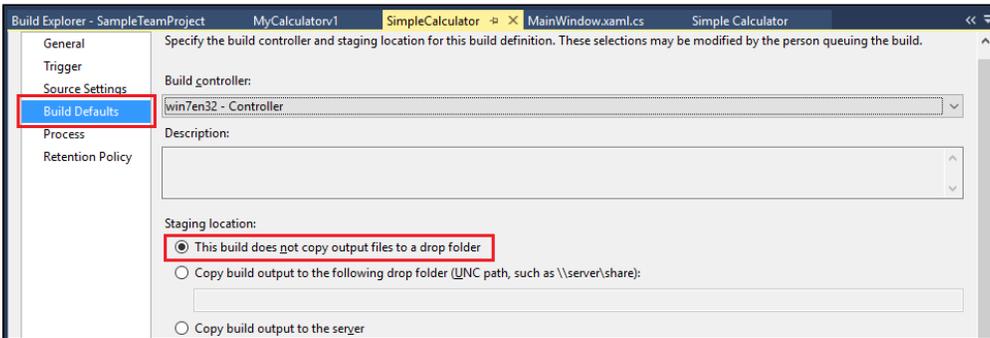
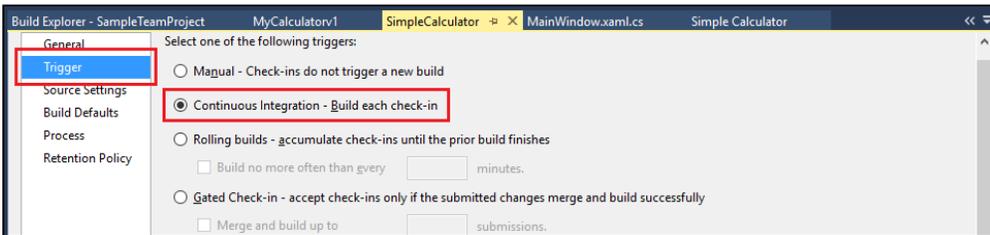
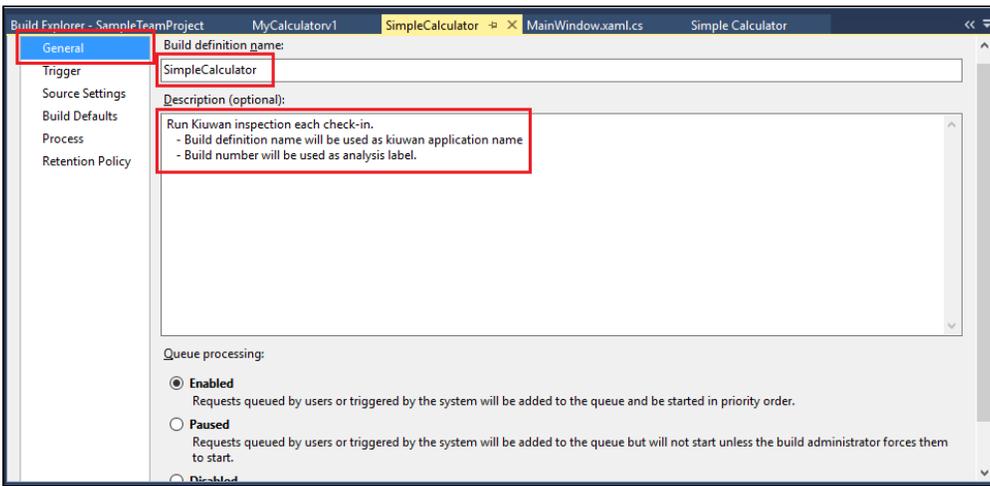
Open the **Team Explorer** tab.



Double click on **Builds** and select **New build definition**.

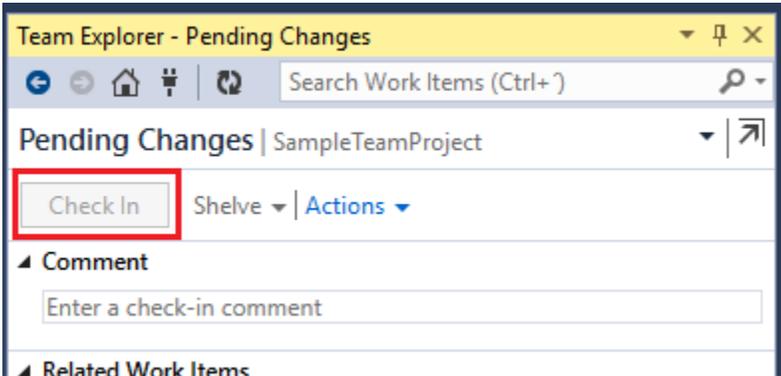


Below, the images of the dialog boxes to configure the build definition:

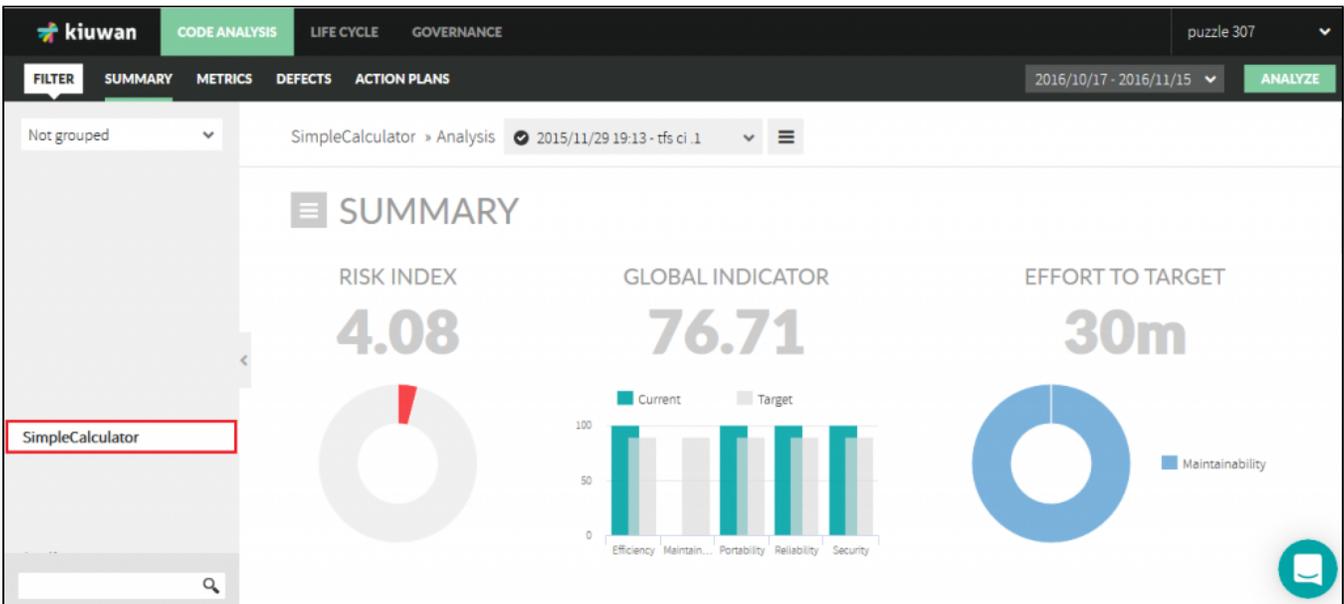


4. Commit the changes and get the analysis results in Kiuwan

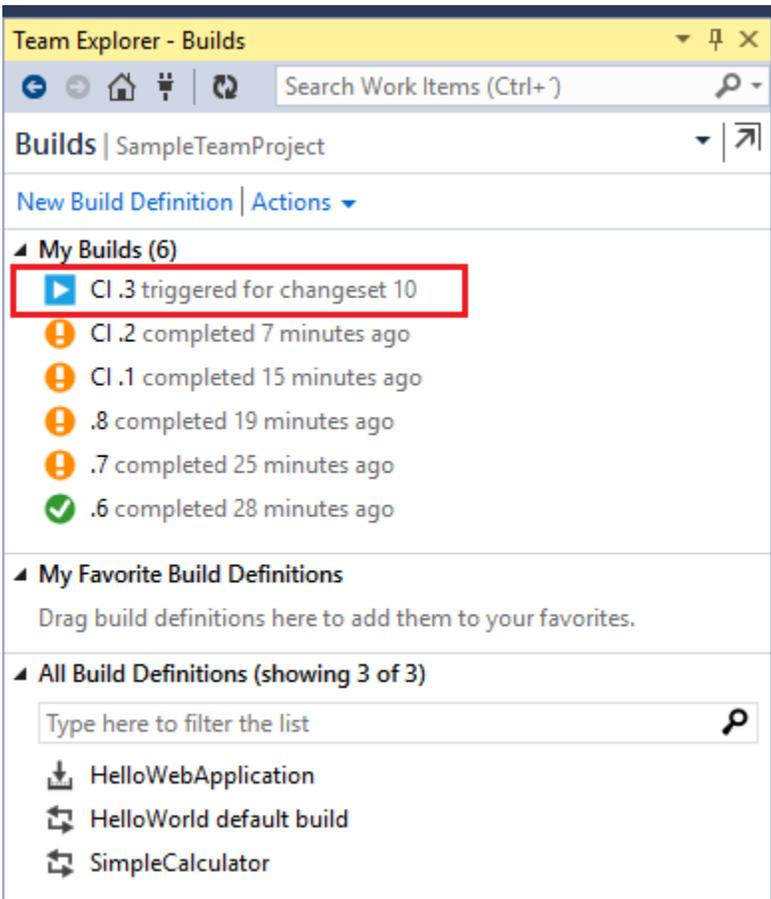
Commit the changes to the repository. A new build will be automatically triggered.



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

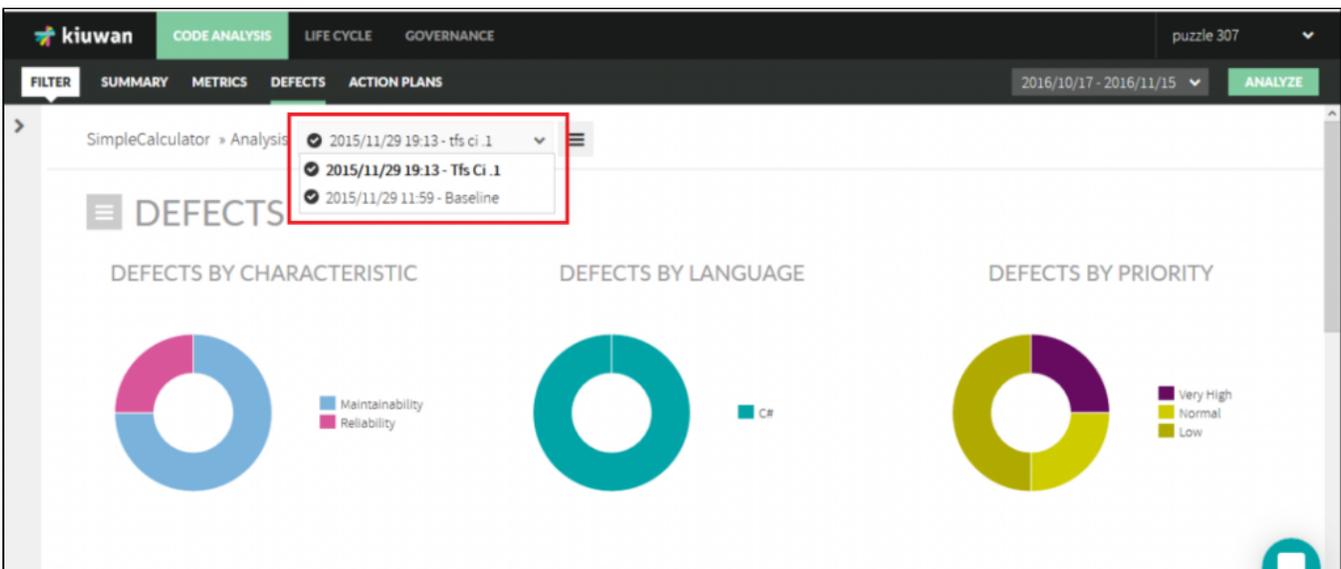


For each commit in the repository, a new build and analysis will be run automatically:



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.

The screenshot shows the Kiuwan web interface for a 'DEFECTS COMPARE' report. The navigation bar at the top includes 'kiuwan', 'CODE ANALYSIS', 'LIFE CYCLE', and 'GOVERNANCE'. The main content area is titled 'DEFECTS COMPARE' and shows a comparison between 'tfs ci.1' and 'Baseline'. Two bar charts are displayed: 'DEFECTS BY CHARACTERISTIC' and 'DEFECTS BY PRIORITY'. At the bottom, a summary bar shows the following statistics:

Category	Count
New rules	0
Removed rules	2
New defects	4
Removed defects	6

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