

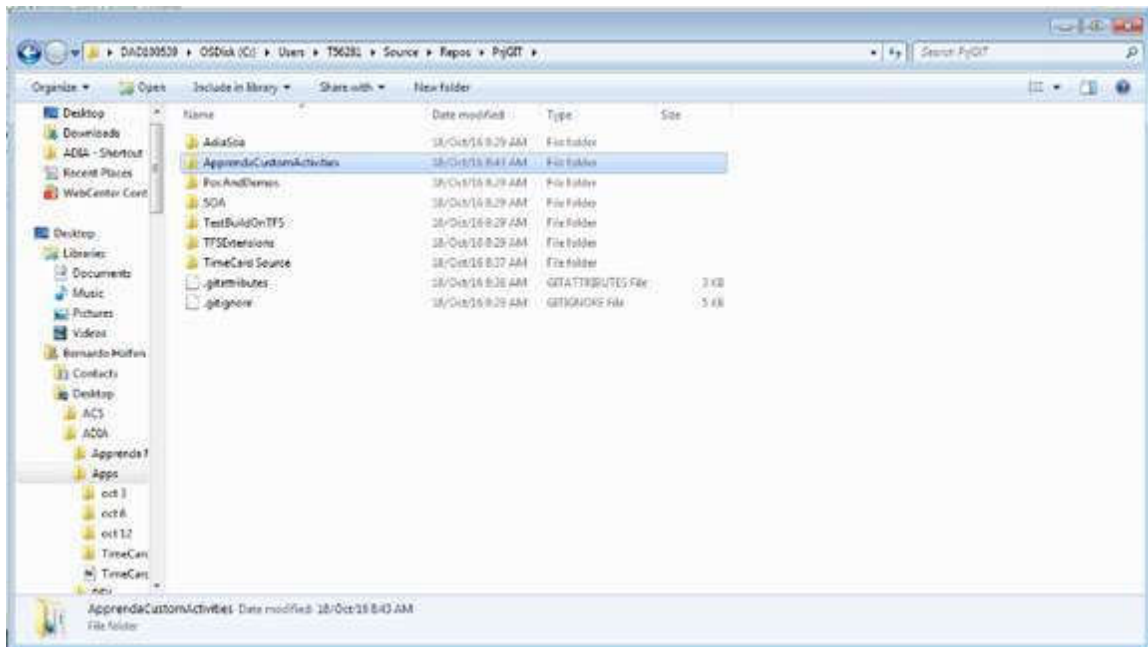


DRAFT

TFS

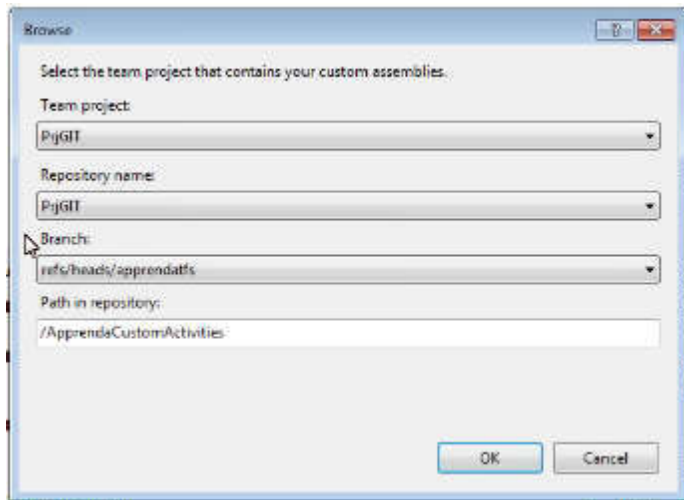
Tuesday, October 18, 2016
8:42 AM

1. Open VS and Check out TFS Branch
2. Create a new branch called appendatfs
3. Create and commit a new project to TFS (timecard should work)
4. Create a new folder called AppendaCustomActivities under the same directory as your pulled git projects
 - a. Add files from TFS Git Project
 - b. Add ACS

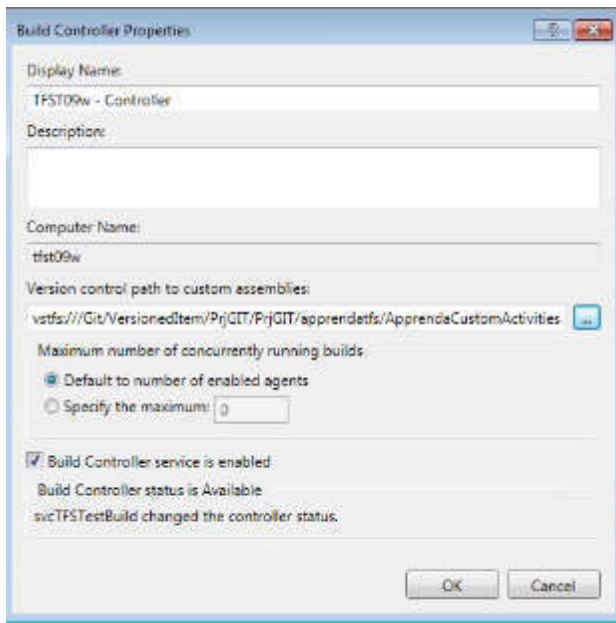


5. Verify that you can see changes under Team Explorer in VS.
 6. Commit and sync the changes
 7. Publish the branch.
-
6. Through TFS Team Explorer select build
 - a. Then from the top menu in visual studio, click build, manage build, select the 09w agent, and click properties.
 - b. Click on version control path to custom assemblies
 - c. Select the right project and branch, and provide the path to your CustomActivities Folder.

d.



e.



7. Team Explorer

a. Build

i. New Build Definition

1. Call it Timecard
2. Trigger - leave manual
3. Source Setting: point to the right branch
4. Build Defaults - pick the right controller (9), and specify build output to server
5. Process - click on new default template & point to appenda template

Browse

Select the team project that contains your build process template.

Team project: PgGIT

Repository name: PgGIT

Branch: refs/heads/apprendatfs

Path in repository: \ApprendsCustomActivities\TFSSBuildTemplateWithAppend.xml

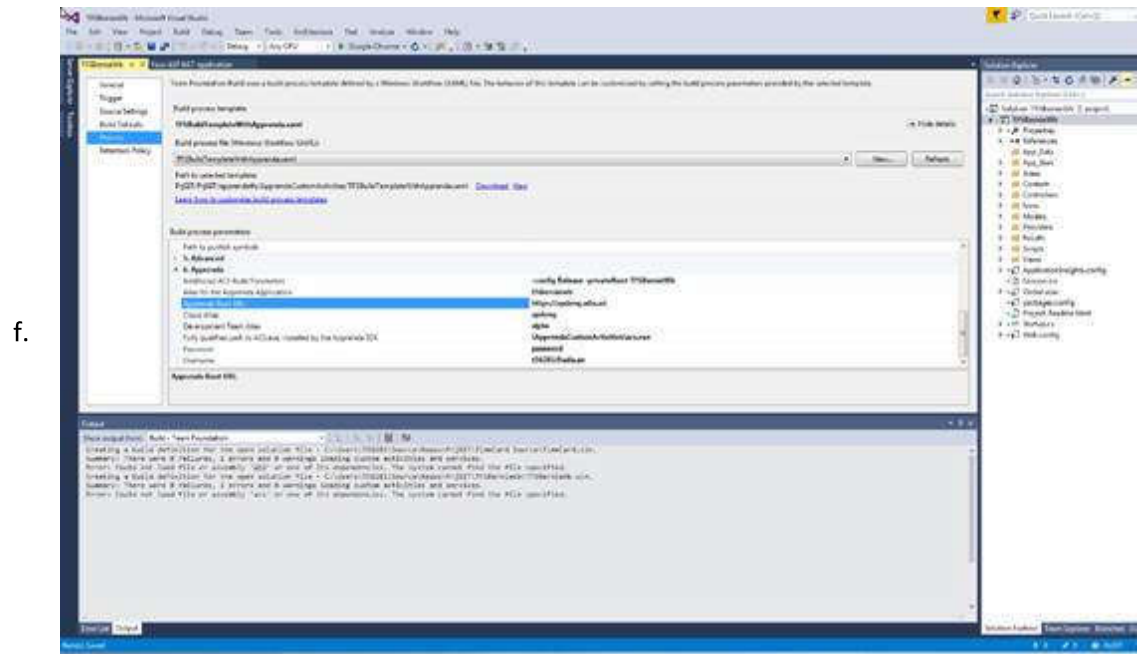
Browse...

OK Cancel

- b. Click Create.
- c. You should now see the Apprenda parameters at the end of the process

The screenshot shows the Windows 10 Setup Assistant window. The 'Build process template' is set to 'IISBuildTemplateWebAppDeployment.xml'. The 'Build process file definition' is 'IISBuildTemplateWebAppDeployment.xml'. The 'Build process parameters' section shows 'Appname' as 'IISBuildTemplateWebAppDeployment.xml'. The 'IIS 10 Web Content' section shows 'IIS 10 Web Content' as the selected option. The 'IIS 10 Web Content' section also shows 'IIS 10 Web Content' as the selected option.

- e. Specify the values for your parameters:



g. Save

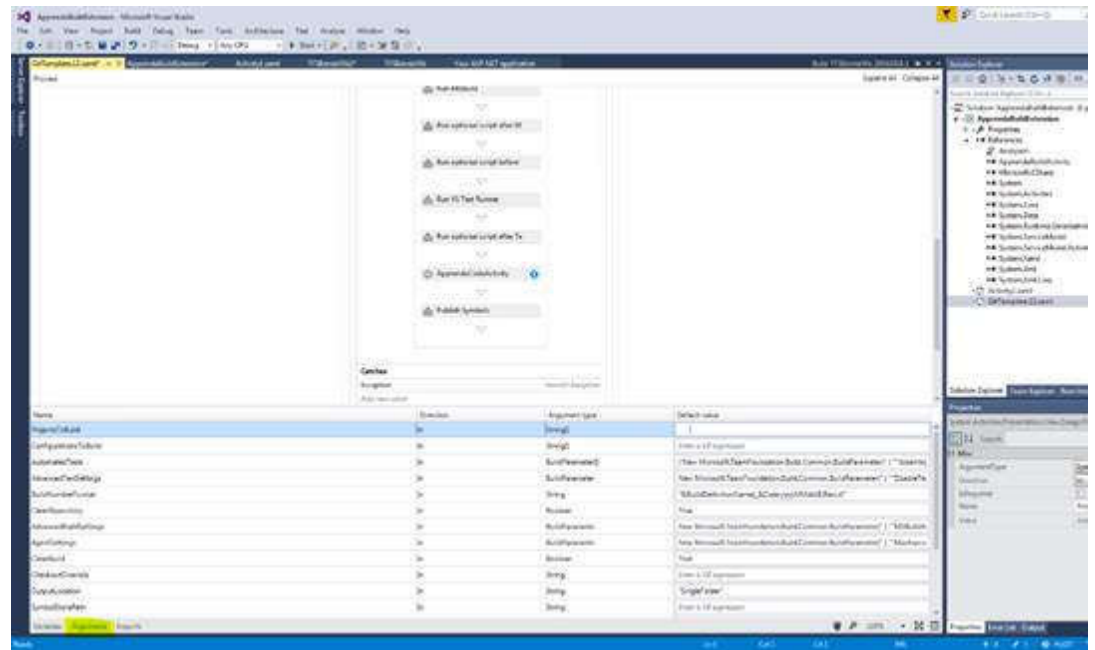
8. Go back to Team Explorer Window
9. Click on your build definition
 - a. Queue new build.

TFS Build Extension

Tuesday, October 18, 2016
10:11 AM

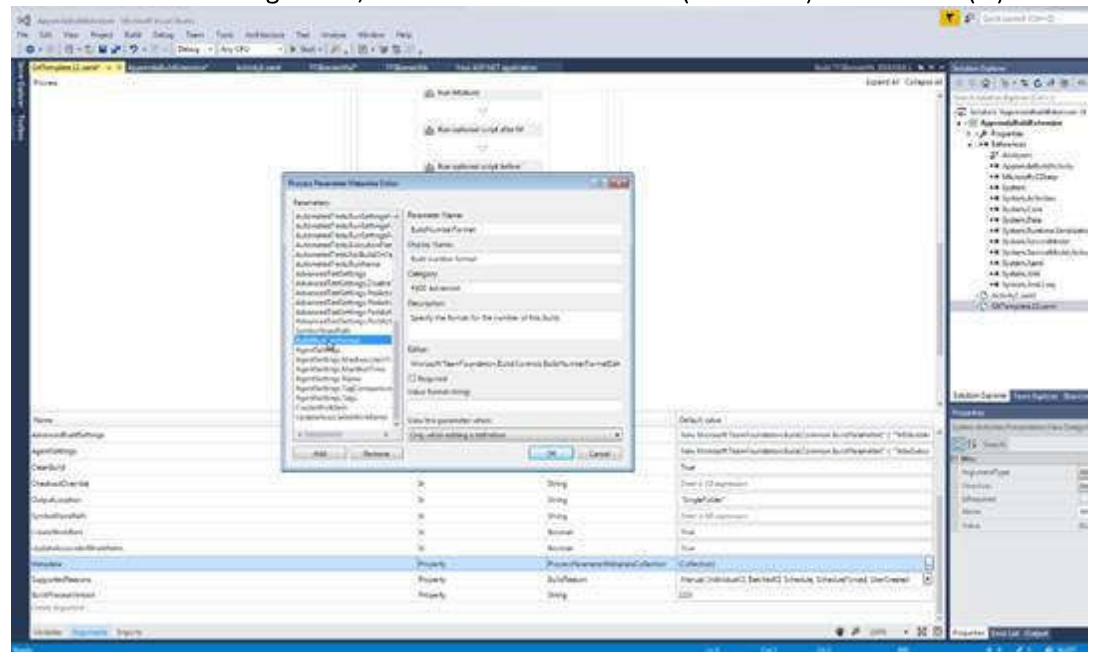
1. Create a new project of type Build Extension (within the git directory).
2. Export the existing template to start off with:
 - a. Open Team Explorer and create a new build definition.
 - b. Download existing template
 - c. Close out of the window.
 - d. Add it to solution
3. Open the imported xaml file to edit
4. Open the toolbox
 - a. In the general (at the bottom of the list), right click and chose items
 - b. Seelct the System.Activities.Components Tab
 - c. Browse the ApprendaBuildActivity.dll
 - d. Click ok
 - e. This should yield you Apprenda activities at the bottom
5. Drag the ApprendaBuildActivity tool within the xaml.
6. Click on the Apprenda code activity
 - a. Click on Arguments to map possible values:

1.



2. Find the **Metadata** argument, click on the Default Value (collection) and click on (...)

3.



4. Create new parameters for each of the following properties:

Parameter Name	Display Name	Category	Required
AcBuildParameter	ACS Build Parameter	Appenda	Yes
AcPath	ACS Path	Appenda	Yes
ApplicationAlias	ApplicationAlias	Appenda	Yes
AppendaRootURL	Appenda Root URL	Appenda	Yes
CloudAlias	Cloud Alias	Appenda	Yes
DevelopmentTeamAlias	Development Team Alias	Appenda	Yes
Password	Password	Appenda	Yes
ProjectToBuild	Project To Build	Appenda	Yes
Username	Username	Appenda	Yes
VerboseLogging	Verbose Logging	Appenda	Yes

VersionNamePrefix	Version Name Prefix	Appenda	Yes
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5. Save changes.

6. This will now allow all Appenda properties to show up grouped.

- i. At the bottom of the Argument List, you can create additional ones. Create the following Arguments (These arguments will be used as variables to map to properties later on):

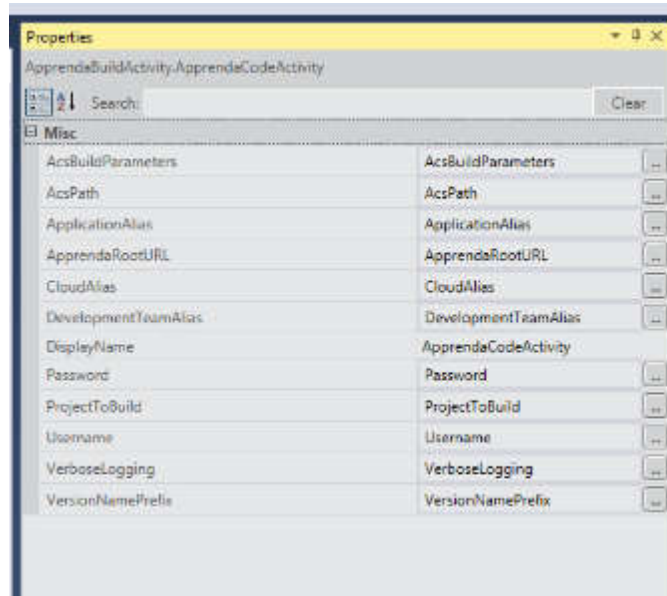
Name	Direction	Argument Type	Default Value
AcsBuildParameter	In	String	"Enter the build params"
AcsPath	In	String	"ACS Path"
ApplicationAlias	In	String	"Enter the app alias"
AppendaRootURL	In	String	"Enter root url to appenda"
CloudAlias	In	String	"cloud URL"
DevelopmentTeamAlias	In	String	"Appenda development team"
Password	In	String	"Appenda password"
ProjectToBuild	In	System.String[]	
Username	In	String	"Appenda username"
VerboseLogging	In	Bool	
VersionNamePrefix	In	String	"version name"

Name	Direction	Argument type	Default value
ApplicationAlias	In	String	"Enter the app alias"
AcsBuildParameters	In	String	"Enter the build params"
AcsPath	In	String	"ACS path"
AppendaRootURL	In	String	"the root url to appenda"
CloudAlias	In	String	"the cloud alias"
DevelopmentTeamAlias	In	String	"dev team alias"
Password	In	String	"pwd please"
Username	In	String	"username"
VerboseLogging	In	Boolean	Enter a bool expression
VersionNamePrefix	In	String	"version name prefix"
ProjectToBuild	In	String[]	Enter a list expression

- ii. Still clicking on AppendaCodeActivity, open the **properties** tab to fill in values:

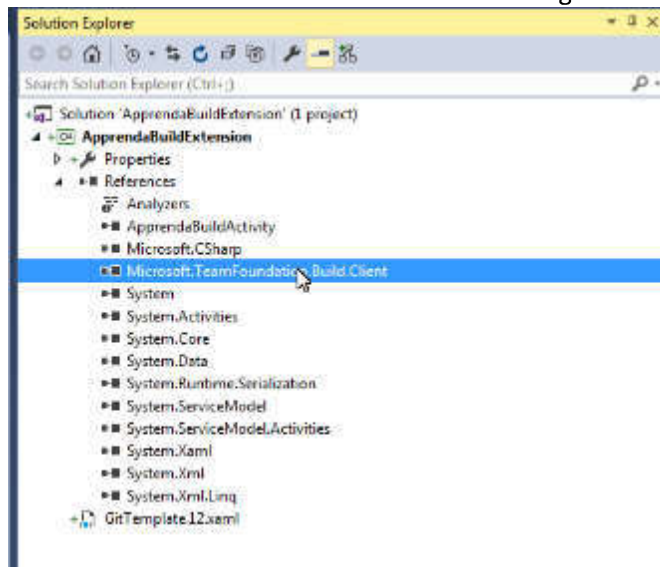
- i. AcsBuildParameters -> AcsBuildParameters
- ii. AcsPath -> AcsPath
- iii. ApplicationAlias -> ApplicationAlias
- iv. AppendaRootURL -> AppendaRootURL
- v. CloudAlias -> CloudAlias
- vi. DevelopmentTeamAlias -> DevelopmentTeamAlias
- vii. DisplayName -> AppendaCodeActivity (should be auto-populated)
- viii. Password -> Password
- ix. ProjectToBuild -> ProjectToBuild
- x. Username -> Username
- xi. VerboseLogging -> VerboseLogging
- xii. VersionNamePrefix -> VersionNamePrefix

xiii.



- iii. Save and close.
- vii. Go to the project, and add a reference to:
 - i. "System.Drawing"
 - ii. "Microsoft.TeamFoundation.Build.Activities"
 - iii. "Microsoft.TeamFoundation.Build.Client"
 - iv. "Microsoft.TeamFoundation.Build.Common"
 - v. "Microsoft.TeamFoundation.Build.Workflow"
 - vi. "Microsoft.TeamFoundation.Deployment.Workflow"
 - vii. "Microsoft.TeamFoundation.WorkItemTracking.Client.DataStoreLoader"

viii.



- viii. Select the xaml file and change build property to "**None**"
- ix. Build the workflow.
 - i. Add any missing references until a clean->build works.