

Simple Git Version Control Process

This article provides a simple process to use git to version control with an exported workflows XML file as an example. This guideline is for especially for anyone not familiar with git and would help them familiarize with the git basics. Please note this is a basic guide that can be used for any files that need to be version controlled using git. See following content details

Installation and Pre-requisites

Git

Visual Studio Or any IDE with git integration like VS code

Process

Clone the repo from Azure devops to your local

Setup a feature branch

Add or update changes to feature branch

Commit and push the changes

Review changes

Related links

Installation and Pre-requisites

Ensure to familiarize the general git branching [policies](#).

Git

This can be requested under the DASH standard software. See [link](#) and screenshot as follow:

https://kbnsupport.service-now.com/kb_rcsp?id=sc_cat_item&sys_id=b1479fe71b69d1d0604f7732d44bcb97

Data Awareness
Now (DASH) is not an approved storage location for sensitive data to include Controlled Unclassified Information (CUI), Personal Identifiable Information (PII) and Confidential Information. Do not include content in your ticket request that are considered sensitive information.

Useful Links Knowledge Base

Home > Service Catalog > Software > Company Standard Software > Git

Search

< Back

Git

* Is this request for a pre-hire?
-- None --

* User
Chacko Panikulam

Additional Comments

Visual Studio Or any IDE with git integration like VS code

In the below example VS code is used which has good git integration. This can be requested as a non standard software. See [link](#) and screenshot:

ness
not an approved storage location for sensitive data to include Controlled Unclassified Information (CUI), Personal Identifiable Information (PII) and
nt in your ticket request that are considered sensitive information.

Useful Links Knowledge

Home > Service Catalog > Software > Non-Standard Software

Search

Back

Non-Standard Software

Request for software titles that are not listed as Company Standard Software. Please be sure to check the [Company Standard Software](#) catalog item before submitting a request for Non-Standard Software.

* Software Title	Software Version
<input type="text"/>	<input type="text"/>
* Manufacturer / Licensor Name	* Quantity of Licenses
<input type="text"/>	<input type="text"/>
* What is the business need that this software will meet?	* When is this software needed?
<input type="text"/>	<input type="text"/>

Generally Visual Studio can be requested under standard software. See [link](#) and screenshot as follows:

Useful Links Knowledge

Home > Service Catalog > Software > Company Standard Software > Visual Studio

Search

Back

Visual Studio

Visual Studio

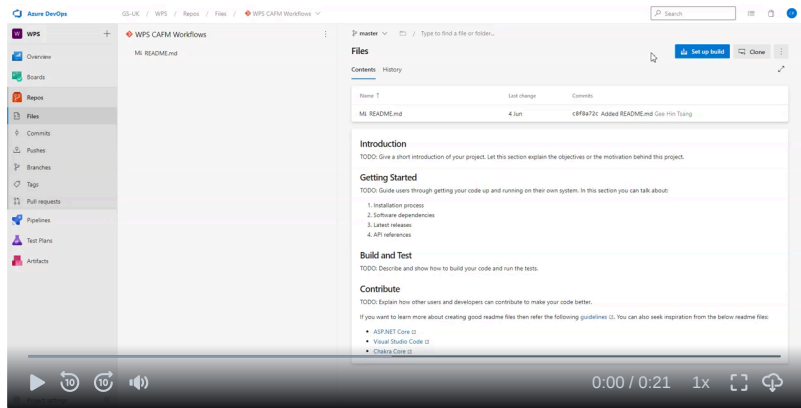
* Edition Required	
-- None --	
* Is this request for a pre-hire?	* User
-- None --	<input type="text" value="Chacko Panikulam"/>
Install on External Device	* Device to install this software on
No	<input type="text"/>
Additional Comments	
<input type="text"/>	

Process

Clone the repo from Azure devops to your local

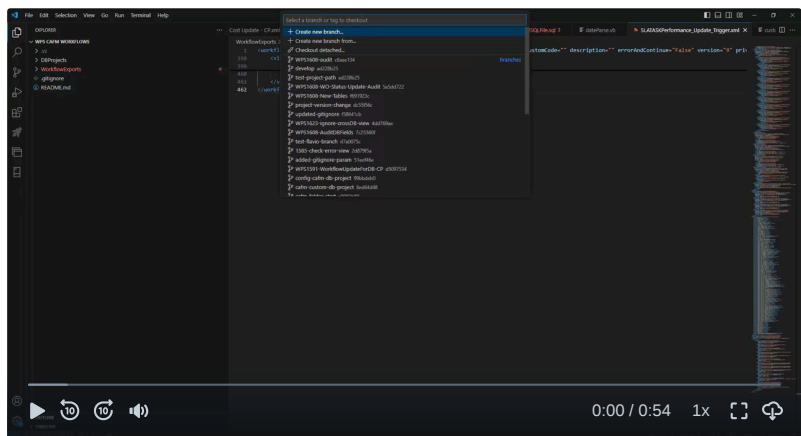
1. Under Azure devops, navigate to your repo
2. Ensure you are on develop branch
3. Then select clone in VS code
4. Select the desired folder in your local machine
5. After which your repo should be cloned into your local machine

See video



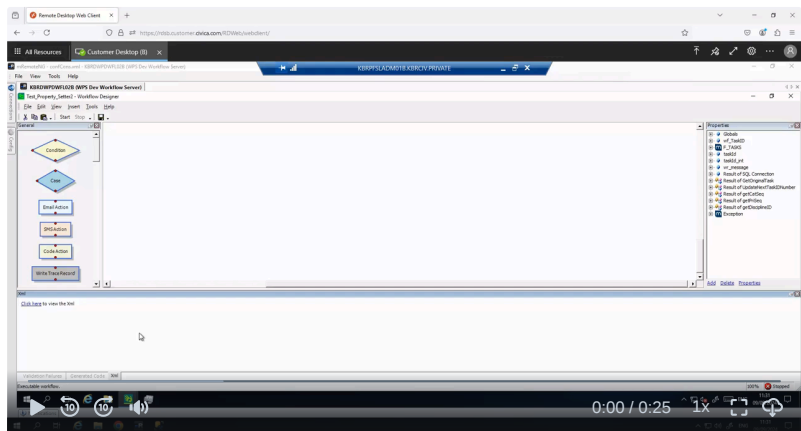
Setup a feature branch

1. Ensure you are on develop branch
2. Pull latest from origin of develop
3. Create the feature branch (Ensure to prefix with ticket number and end with feature summary)
4. The feature branch is ready to be published



Add or update changes to feature branch

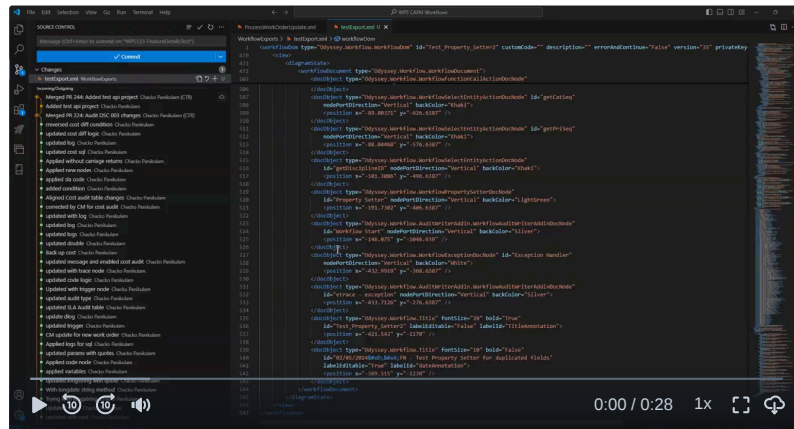
1. This can be any file changes, additions, reverts, etc.
2. In this case an example workflow XML export is copied over to a file. See video



Commit and push the changes

1. Ensure to put a summary and message
2. Then commit and push the changes
3. Press ok for the prompt, to publish the feature branch to the remote

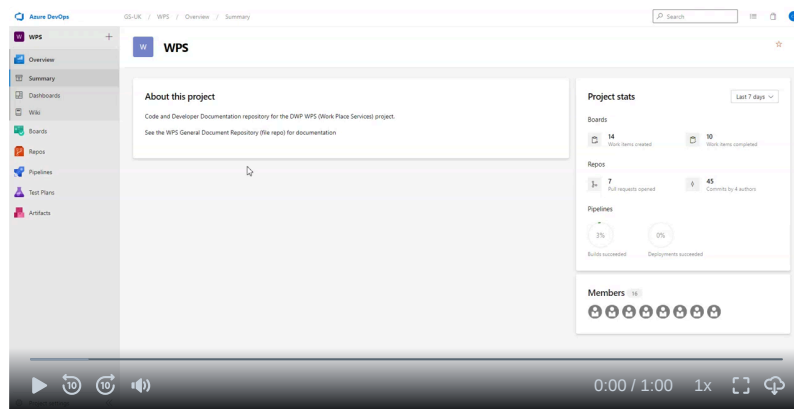
See video:



Review changes

1. If it's a newly published feature branch under Azure devops, a prompt will appear to create a PR.
2. Click create and select the dev branch (See above branching policies for more details)
3. After adding necessary details in the PR, it can be reviewed by adding approvers
4. If you want to review an older change under the branch, the commit history of the PR can be viewed. The same can be used to revert changes where you could revert to this commit or the older version can be copied over.
5. Once approved, click the complete button so that the changes go into the dev branch

See video



Related links

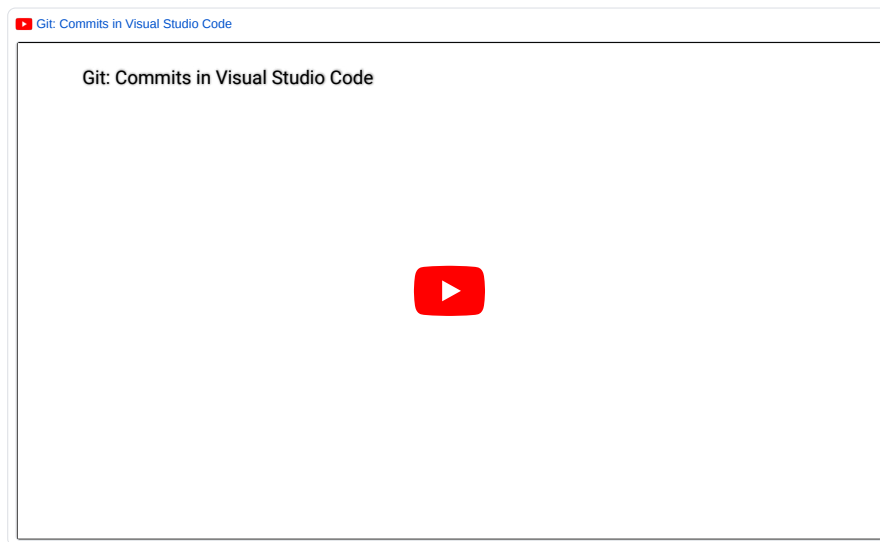
[Git Command line - Git Tutorial \(w3schools.com\)](#)

Understanding concept of merge conflicts in git and resolving them using VS code:

The EXTREMELY helpful guide to merge conflicts



Undo last commit:



Other video tutorial to learn git concepts using command line:

