Integrating Software AG Designer and webMethods Asset Build Environment with GIT

Setup and Connection "Cheat sheet"

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1.0 Intro

This document is a summary “cheat sheet” on how to configure/connect Software AG Designer and webMethods Asset Build Environment (ABE) with GIT.

2.0 Installation and setup

1) All the following activities must be done in build server where your ABE is installed

2) Install either GIT client which can be downloaded at https://git-scm.com/downloads/guis

3) Set the enable.checkout = true in the ABE build.properties file

4) Modify the “C:\SoftwareAG\common\AssetBuildEnvironment\master_build\ build-source-checkout.xml” file with tfs specific commands.

5) In my case I first cleanup the source-checkout-folder and checkout the packages. The source-checkout-folder will become source for composite building

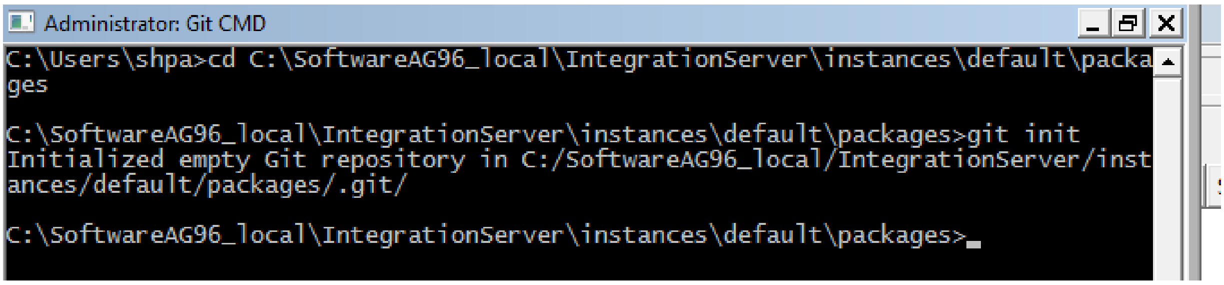
6) Here is the content of my “build-source-checkout.xml” file

```
<?xml version="1.0"?>
<!-- THIS IS FOR GIT CLIENT ONLY
This build file is a template Ant task that pulls sources from GIT.
NOTE: Do not change the name of this file.
GIT executable should be configued in the path of the system variables.
-->

<project default="CheckOut" basedir=".">

<echo> Base dir is ---  ${basedir} --- </echo>


<macrodef name = "git">
    <attribute name = "command" />
    <attribute name = "dir" default = "" />
    <element name = "args" optional = "true" />
    <sequential>
        <echo message = "git @{command}" />
        <exec executable = "git" dir = "@{dir}">
            <arg value = "@{command}" />
            <args/>
        </exec>
    </sequential>
</macrodef>

<macrodef name = "git-clone-pull">
    <attribute name = "repository" />
    <attribute name = "dest" />
    <sequential>
        <git command = "clone">
            <args>
                <arg value = "@{repository}" />
                <arg value = "@{dest}" />
            </args>
        </git>
        <git command = "pull" dir = "@{dest}" />
    </sequential>
</macrodef>


      <if>
            <equals arg1="${build.checkout.dir}" arg2="" />
            <then>
                  <fail>Please set "build.checkout.dir" property. </fail>

            </then>
      </if>
<target name="CheckOut" depends="clean" description="pull out all the sources
from version control">
            <git command = "clone">
                  <args>
                        <arg value = "git://github.com/280north/ojunit.git" />
                        <arg value = "ojunit" />
                  </args>
            </git>
            <git command = "pull" dir = "${build.checkout.dir}" />
</target>

      <target name="clean" description="Clean up the checkout directory" >
            <delete dir="${build.checkout.dir}"/>
      </target>

</project>
```

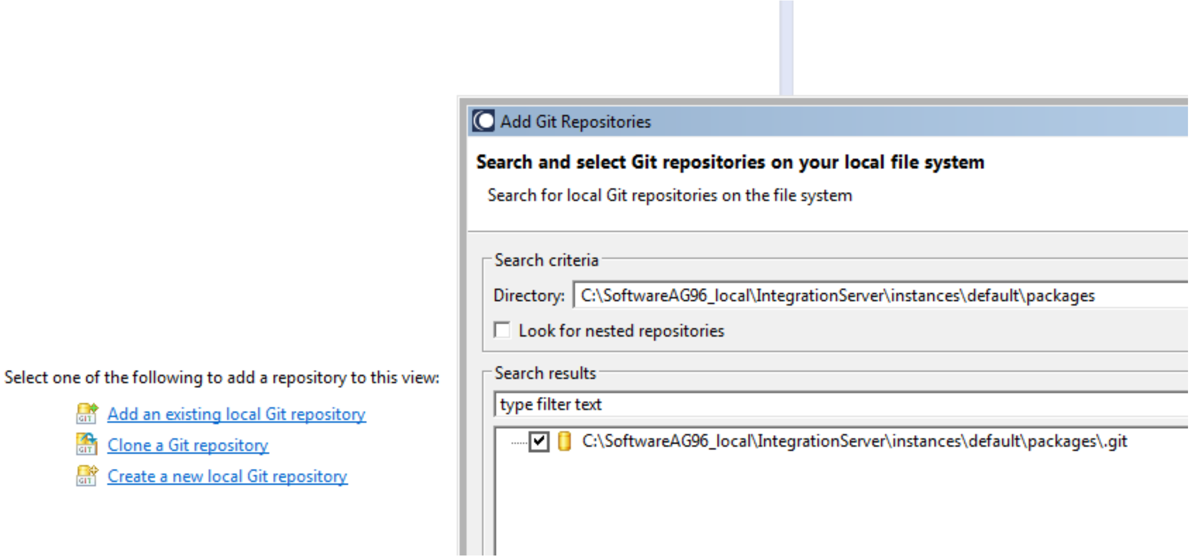
3.0 Setting Up GIT with Designer workstation

1) Designer will have GIT plugin installed with tool installation by default.

2) Navigate to Window > Perspective > GIT and add the local repository. Local repository can be created using giti init command in packages directory of Integration Server.



```
C:\Users\shpa>cd C:\SoftwareAG96_local\IntegrationServer\instances\default\packa
ges

C:\SoftwareAG96_local\IntegrationServer\instances\default\packages>git init
Initialized empty Git repository in C:/SoftwareAG96_local/IntegrationServer/inst
ances/default/packages/.git/

C:\SoftwareAG96_local\IntegrationServer\instances\default\packages>_
```



Select one of the following to add a repository to this view:

Add an existing local Git repository
Clone a Git repository
Create a new local Git repository
Add Git Repositories

Search and select Git repositories on your local file system

Search for local Git repositories on the file system

Search criteria

Directory: C:\SoftwareAG96_local\IntegrationServer\instances\default\packages

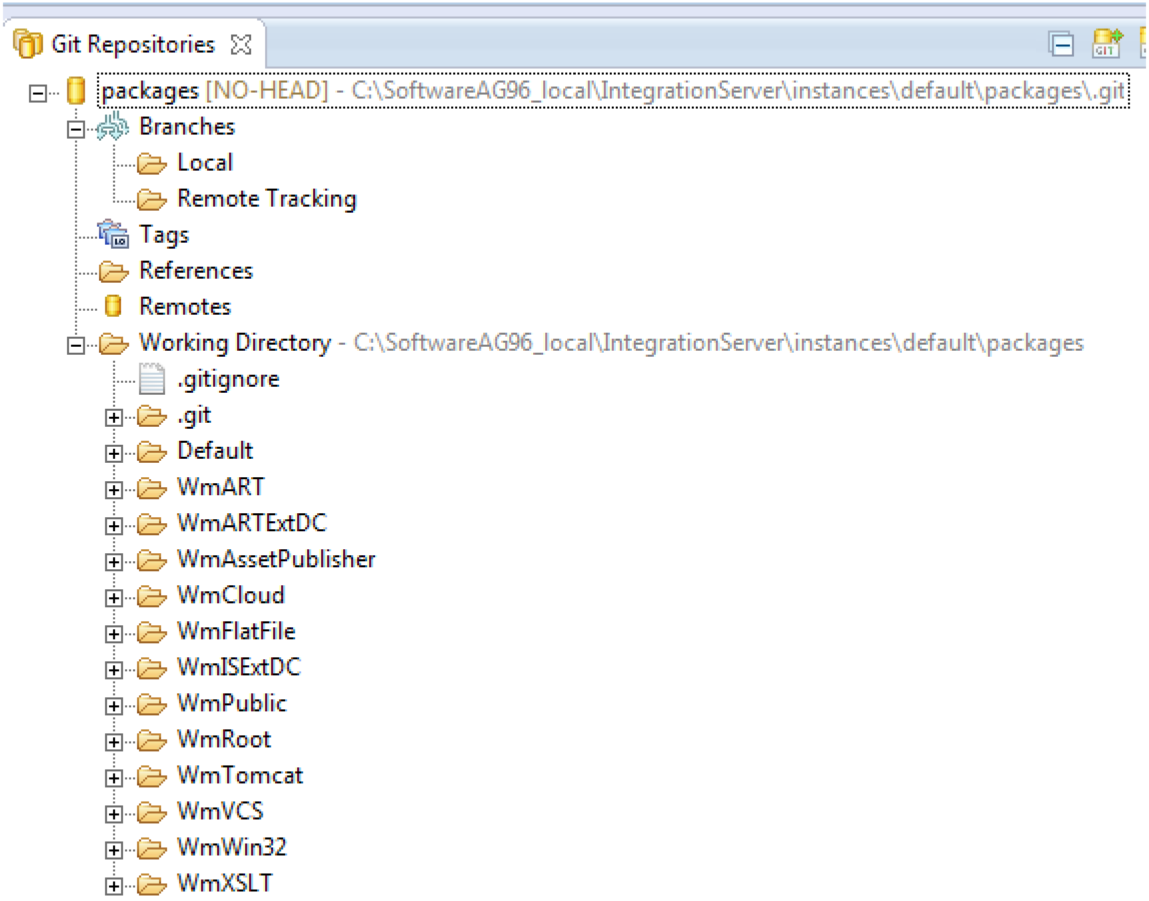
☐ Look for nested repositories

Search results

type filter text

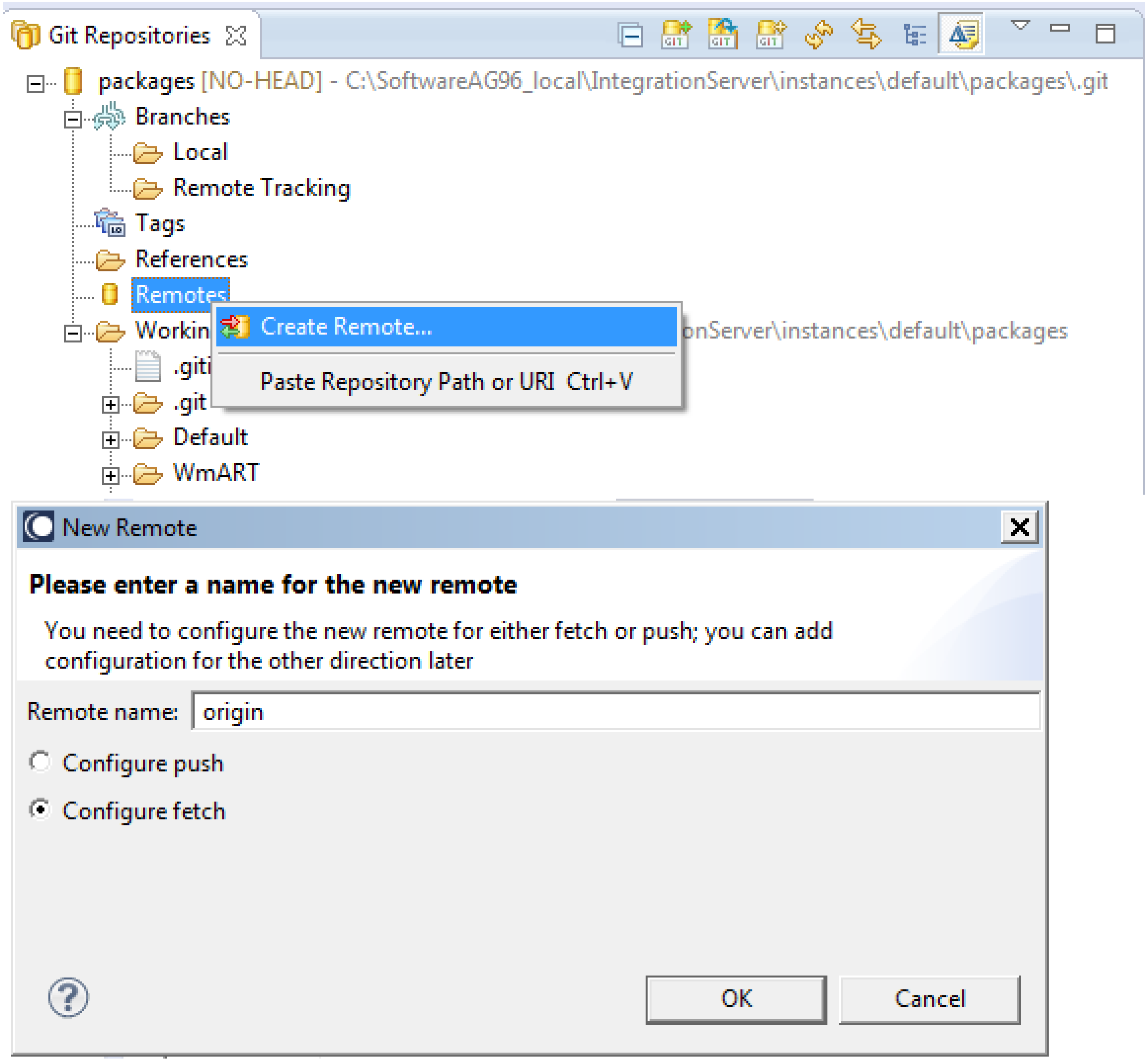
☑ C:\SoftwareAG96_local\IntegrationServer\instances\default\packages\.git

3) The packages that are added will be available under working directory after adding the repository.



```
Git Repositories
packages [NO-HEAD] - C:\SoftwareAG96_local\IntegrationServer\instances\default\packages\.git
    Branches
        Local
        Remote Tracking
    Tags
    References
    Remotes
    Working Directory - C:\SoftwareAG96_local\IntegrationServer\instances\default\packages
        .gitignore
        .git
        Default
        WmART
        WmARTExtDC
        WmAssetPublisher
        WmCloud
        WmFlatFile
        WmISExtDC
        WmPublic
        WmRoot
        WmTomcat
        WmVCS
        WmWin32
        WmXSLT
```

4) Now configure the remote repository for the push or fetch. Follow the below screen shots for the same.


Git Repositories
packages [NO-HEAD] - C:\SoftwareAG96_local\IntegrationServer\instances\default\packages\.git
Branches
Local
Remote Tracking
Tags
References
Remotes
Workin
onServer\instances\default\packages
.giti
.git
Default
WmART
Create Remote...
Paste Repository Path or URI Ctrl+V

New Remote

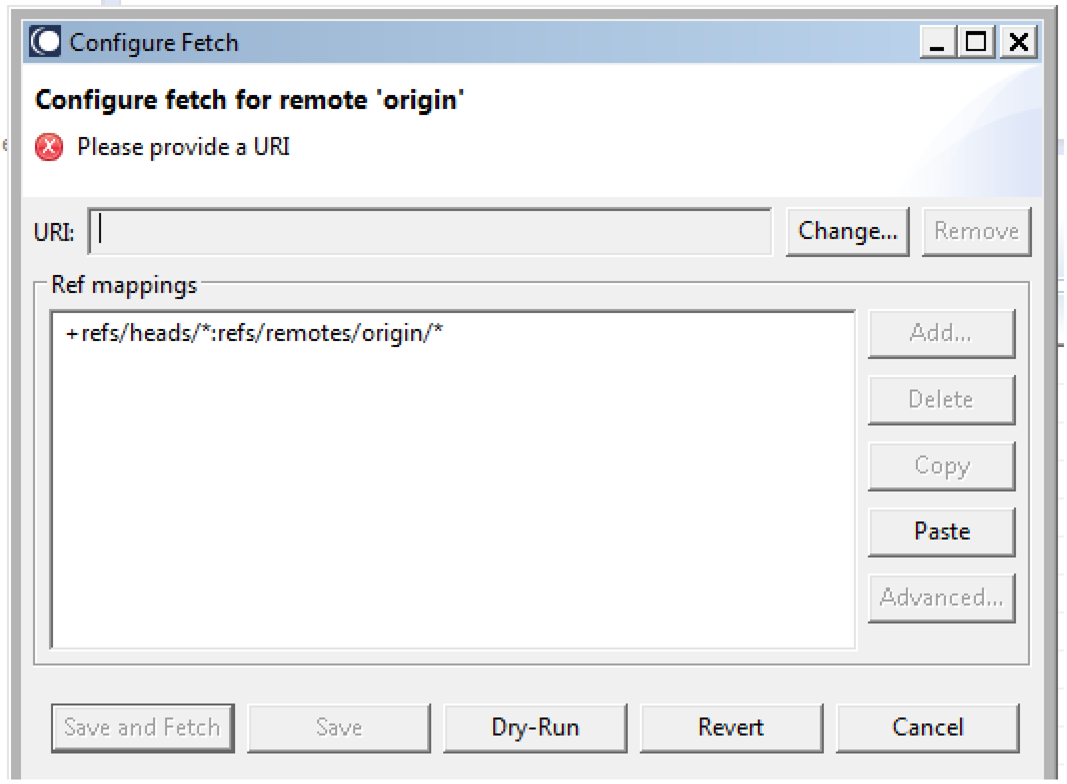
Please enter a name for the new remote

You need to configure the new remote for either fetch or push; you can add configuration for the other direction later

Remote name: origin

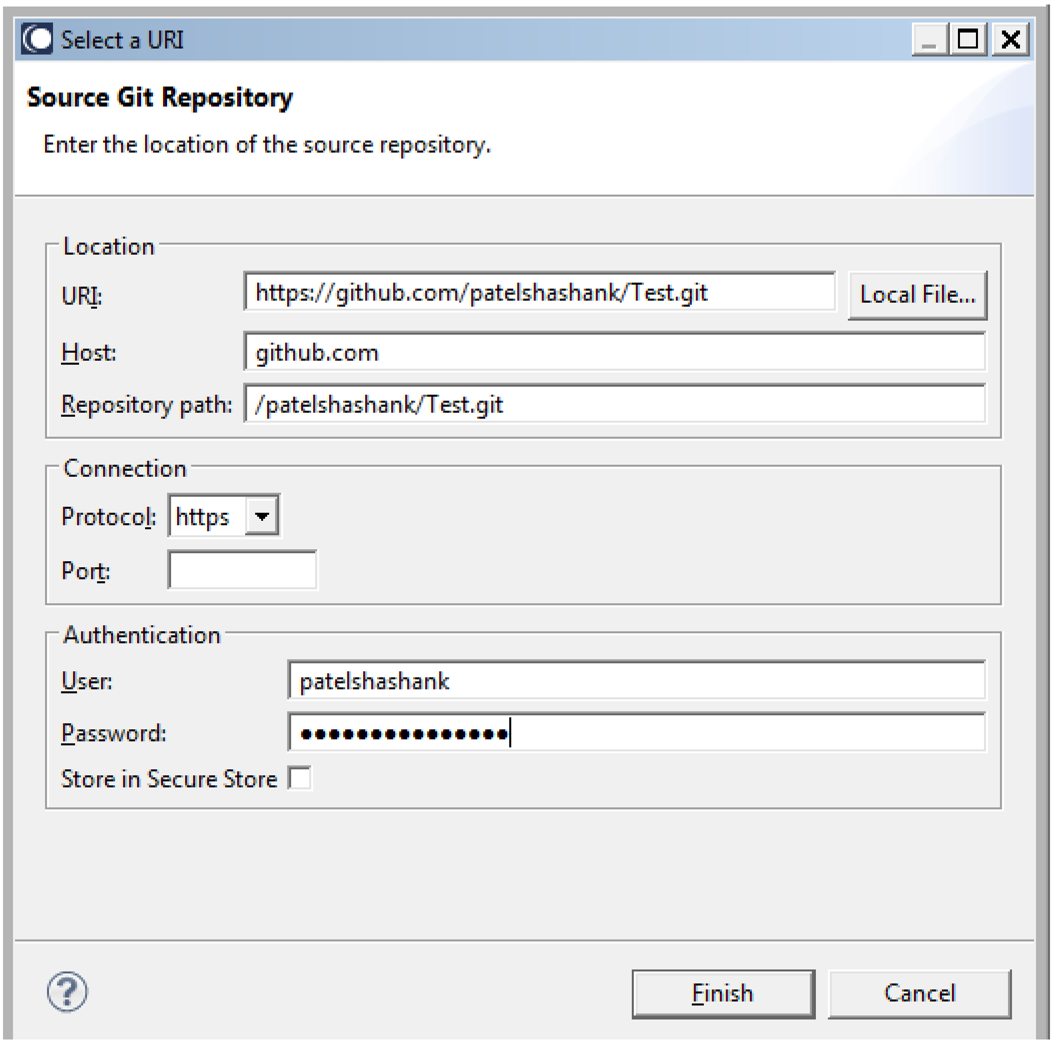
○ Configure push

● Configure fetch



```
+refs/heads/*:refs/remotes/origin/*
```

Click on Change,



Source Git Repository

Enter the location of the source repository.

Location

URI: https://github.com/patelshashank/Test.git

Host: github.com

Repository path: /patelshashank/Test.git

Connection

Protocol: https

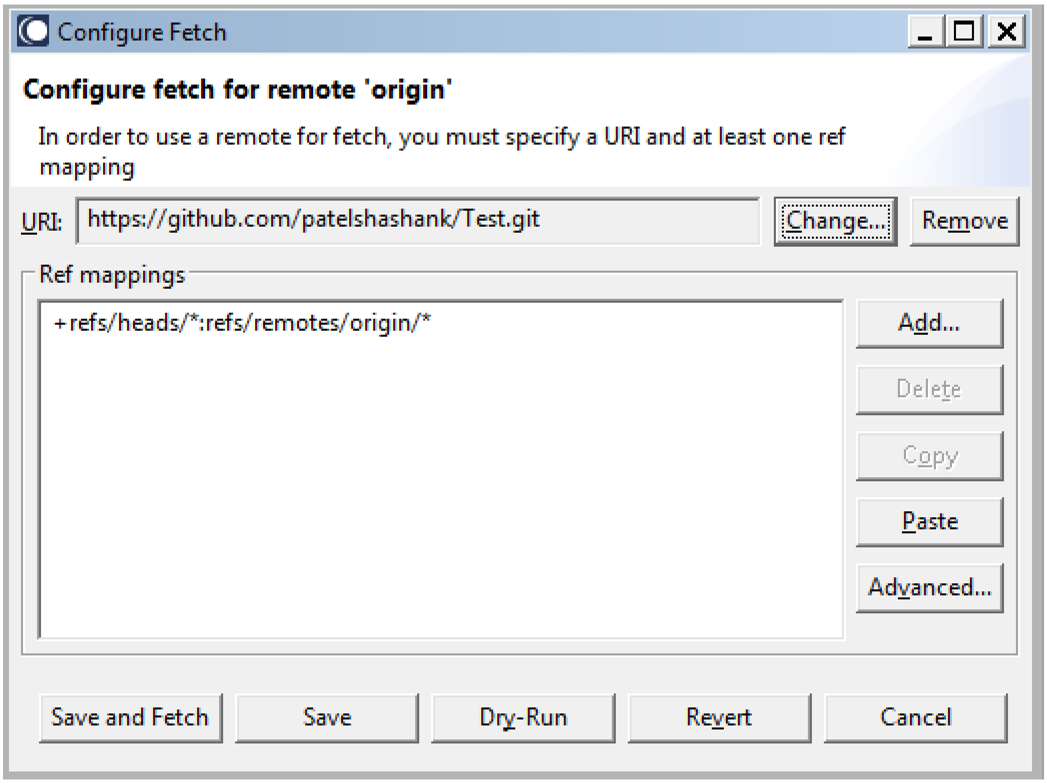
Port:

Authentication

User: patelshashank

Password: •••••••••••••••

Store in Secure Store □



Configure fetch for remote 'origin'

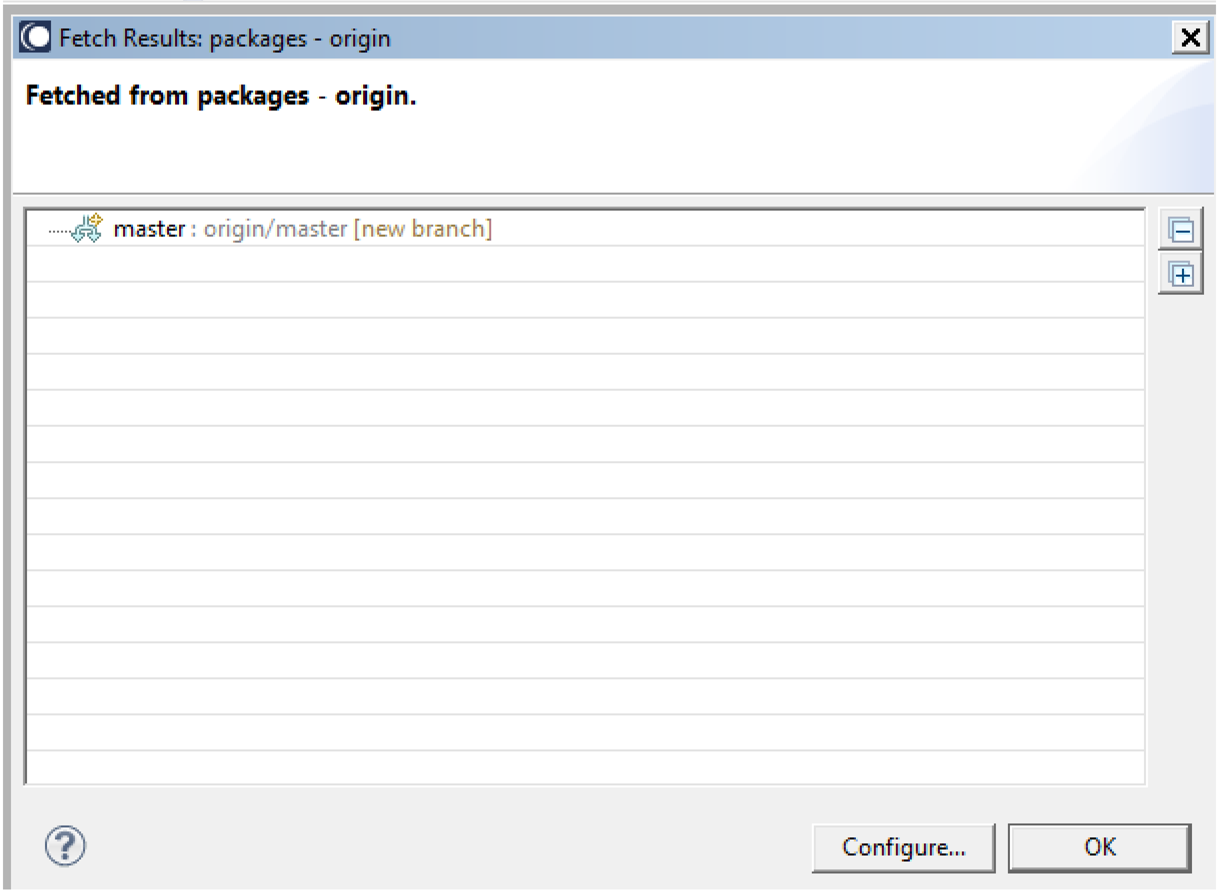
In order to use a remote for fetch, you must specify a URI and at least one ref mapping

URI: https://github.com/patelshashank/Test.git

Ref mappings

```
+refs/heads/*:refs/remotes/origin/*
```

Click on save and fetch to fetch the code base.

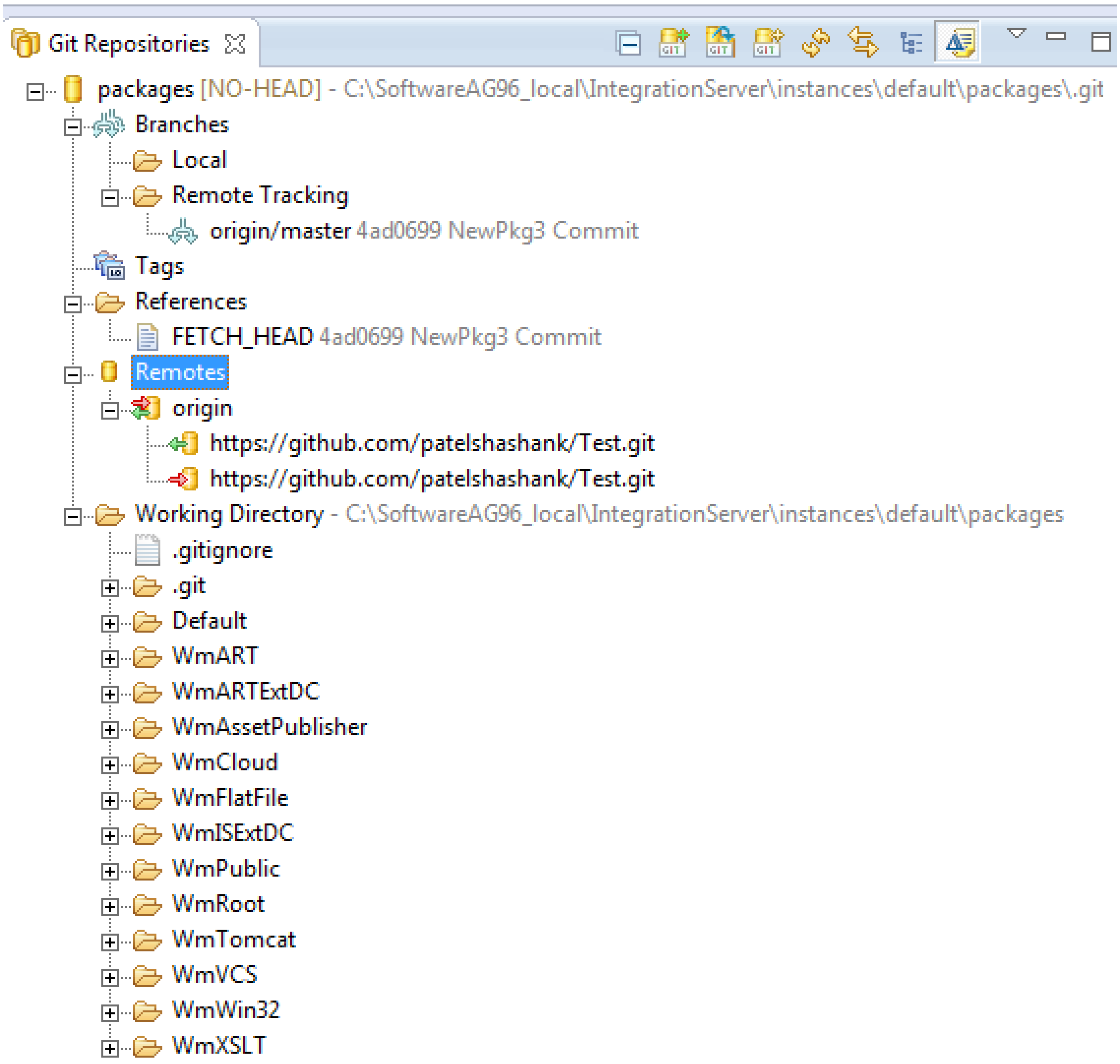


Fetch Results: packages - origin

Fetched from packages - origin.

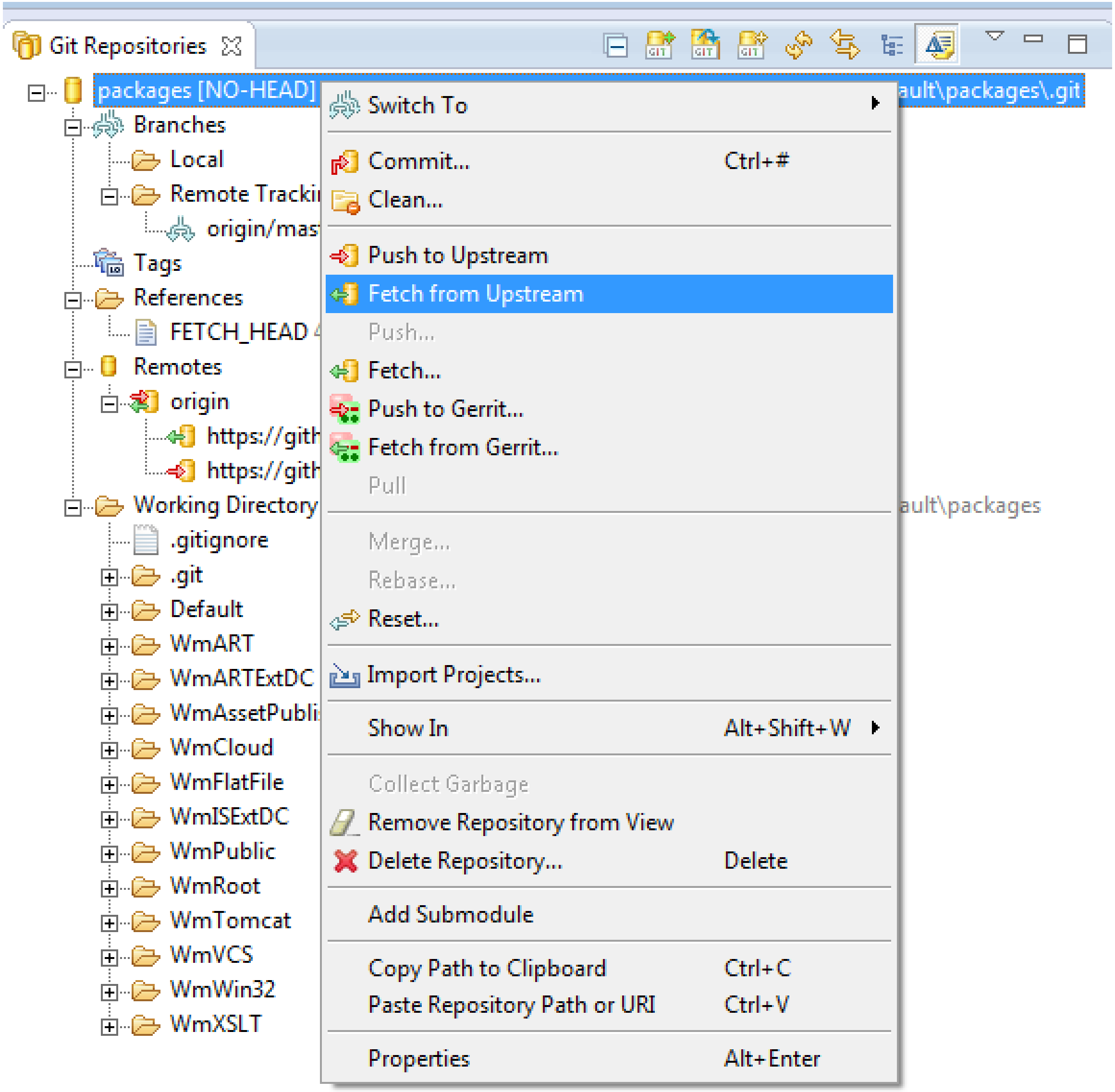
master : origin/master [new branch]

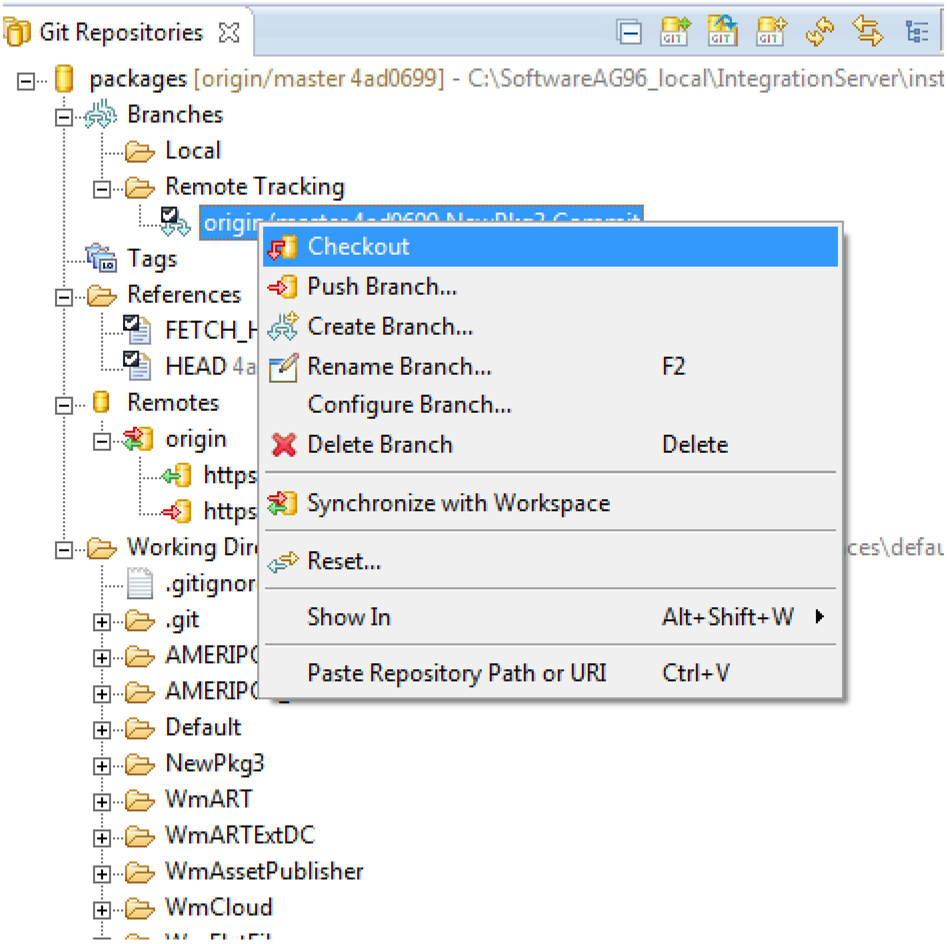
5) After configuring the remote origin, GIT repository will look similar to the below.



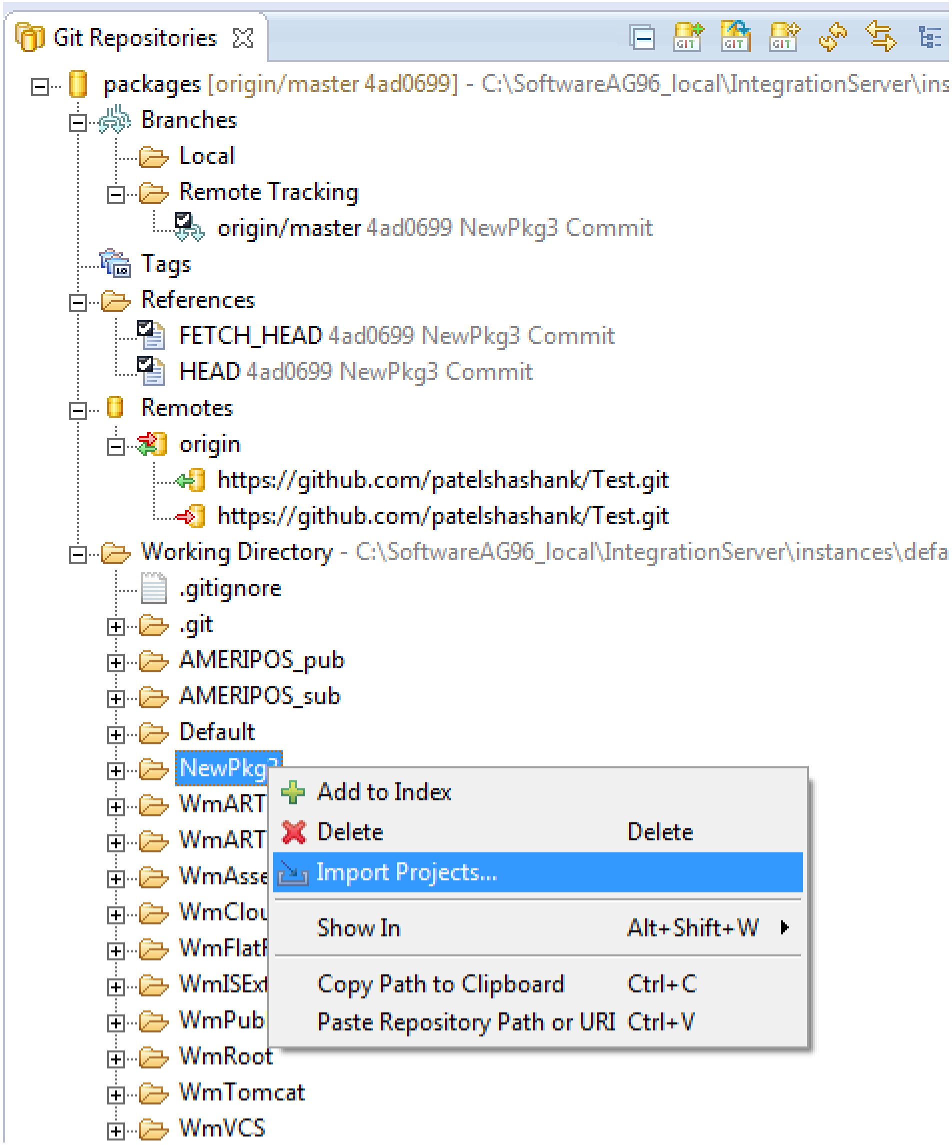
Git Repositories

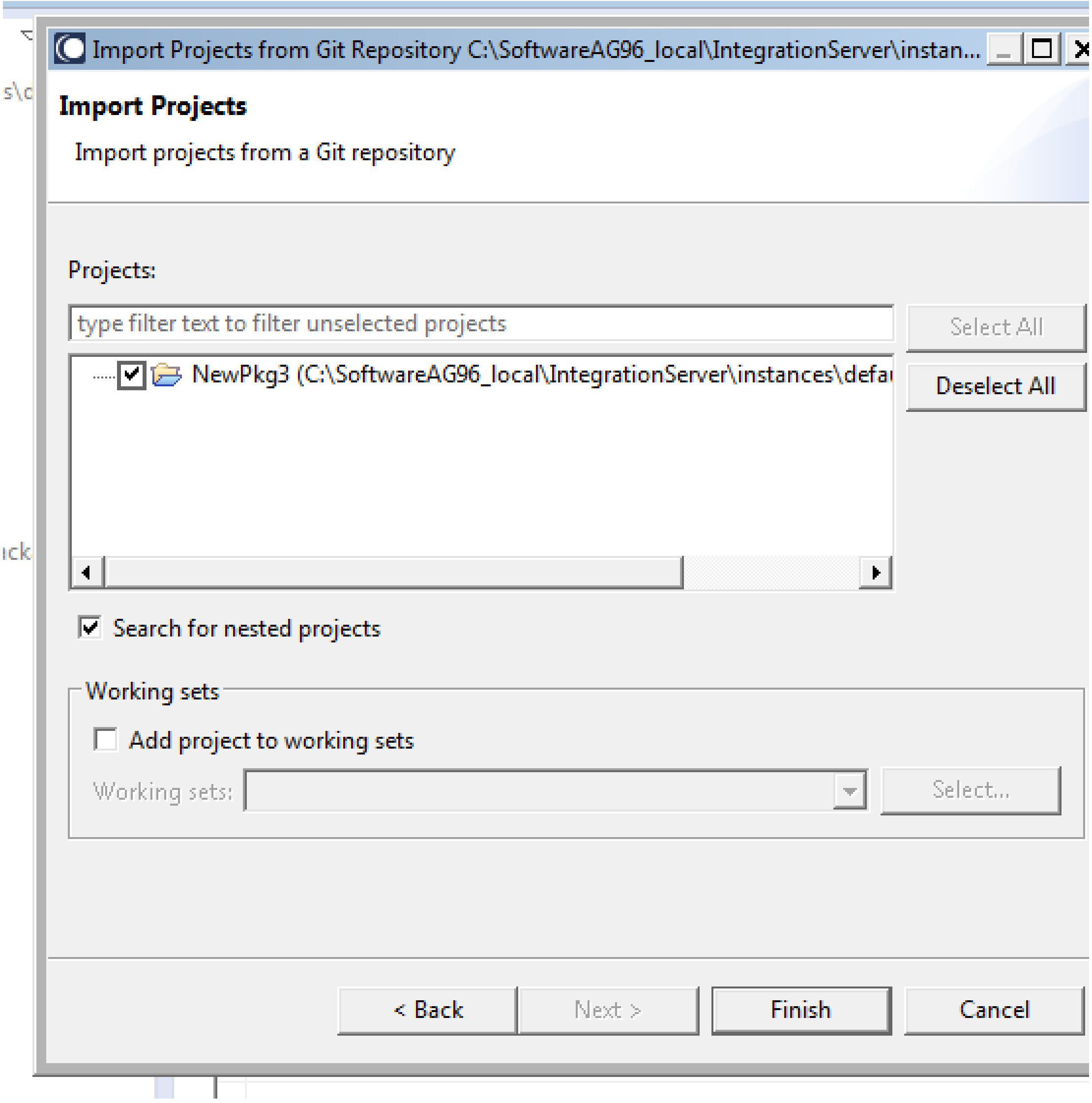
```
packages [NO-HEAD] - C:\SoftwareAG96_local\IntegrationServer\instances\default\packages\.git
    Branches
        Local
        Remote Tracking
            origin/master 4ad0699 NewPkg3 Commit
    Tags
    References
        FETCH_HEAD 4ad0699 NewPkg3 Commit
    Remotes
        origin
            https://github.com/patelshashank/Test.git
            https://github.com/patelshashank/Test.git
    Working Directory - C:\SoftwareAG96_local\IntegrationServer\instances\default\packages
        .gitignore
        .git
        Default
        WmART
        WmARTExtDC
        WmAssetPublisher
        WmCloud
        WmFlatFile
        WmISExtDC
        WmPublic
        WmRoot
        WmTomcat
        WmVCS
        WmWin32
        WmXSLT
```


Git Repositories
packages [NO-HEAD]
ault\packages\.git
Branches
Local
Remote Trackii
origin/mas
Tags
References
FETCH_HEAD
Remotes
origin
https://gith
https://gith
Working Directory
ault\packages
.gitignore
.git
Default
WmART
WmARTExtDC
WmAssetPubli
WmCloud
WmFlatFile
WmISExtDC
WmPublic
WmRoot
WmTomcat
WmVCS
WmWin32
WmXSLT
Switch To
Commit... Ctrl+#
Clean...
Push to Upstream
Fetch from Upstream
Push...
Fetch...
Push to Gerrit...
Fetch from Gerrit...
Pull
Merge...
Rebase...
Reset...
Import Projects...
Show In Alt+Shift+W
Collect Garbage
Remove Repository from View
Delete Repository... Delete
Add Submodule
Copy Path to Clipboard Ctrl+C
Paste Repository Path or URI Ctrl+V
Properties Alt+Enter



6) You can now import the projects from repository to workspace.


Git Repositories
packages [origin/master 4ad0699] - C:\SoftwareAG96_local\IntegrationServer\ins
Branches
Local
Remote Tracking
origin/master 4ad0699 NewPkg3 Commit
Tags
References
FETCH_HEAD 4ad0699 NewPkg3 Commit
HEAD 4ad0699 NewPkg3 Commit
Remotes
origin
https://github.com/patelshashank/Test.git
https://github.com/patelshashank/Test.git
Working Directory - C:\SoftwareAG96_local\IntegrationServer\instances\defa
.gitignore
.git
AMERIPOS_pub
AMERIPOS_sub
Default
NewPkg3
WmART
WmART
WmAsse
WmClou
WmFlatF
WmISExt
WmPub
WmRoot
WmTomcat
WmVCS
Add to Index
Delete Delete
Import Projects...
Show In Alt+Shift+W
Copy Path to Clipboard Ctrl+C
Paste Repository Path or URI Ctrl+V



Import Projects from Git Repository C:\SoftwareAG96_local\IntegrationServer\instan...

Import Projects

Import projects from a Git repository

Projects:

type filter text to filter unselected projects

☑ NewPkg3 (C:\SoftwareAG96_local\IntegrationServer\instances\defa

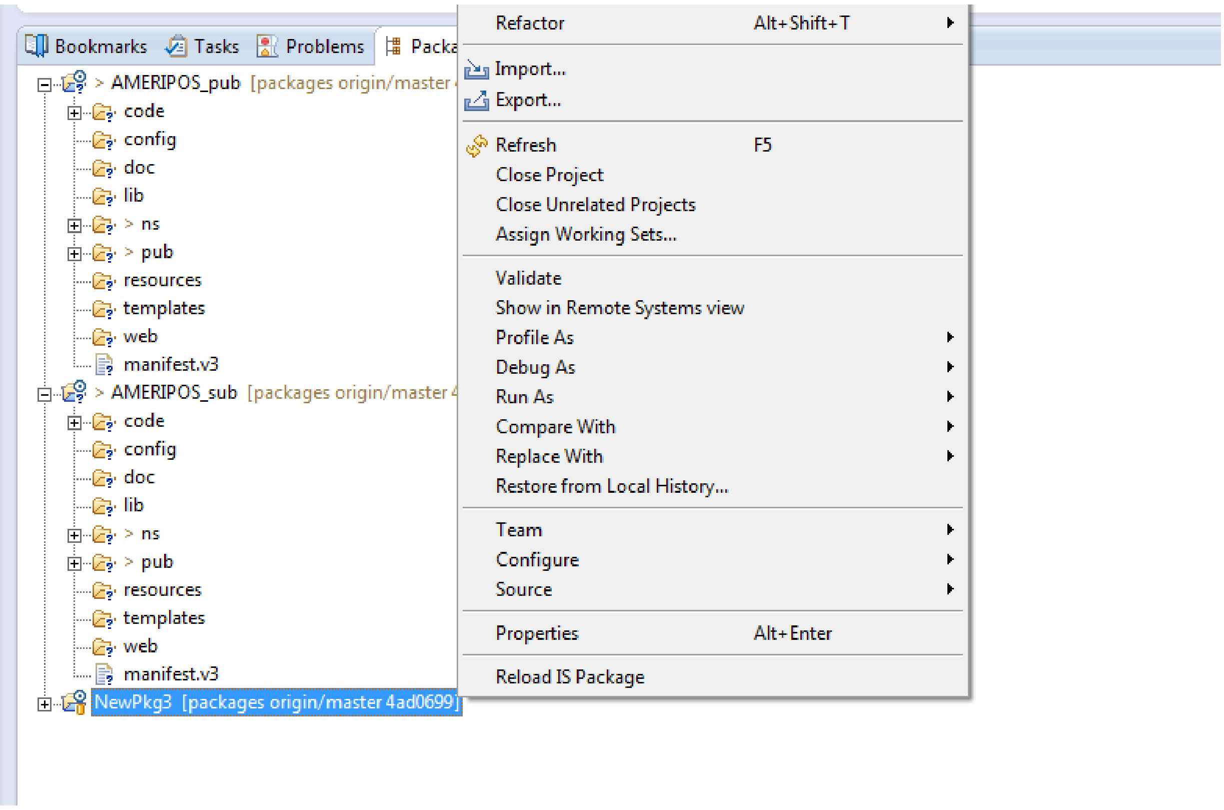
☑ Search for nested projects

Working sets

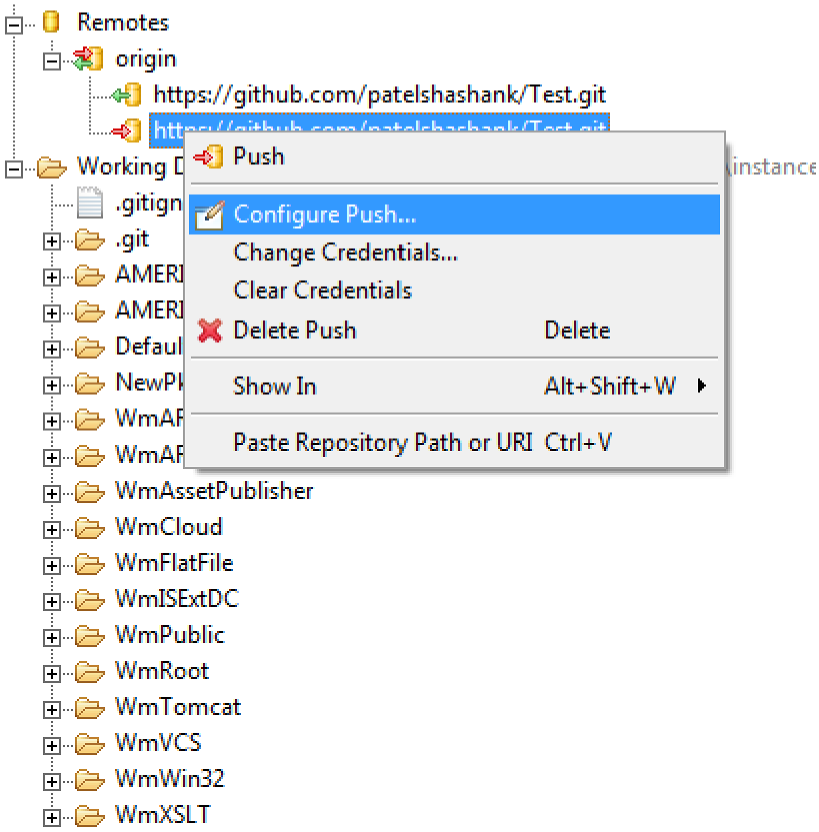
□ Add project to working sets

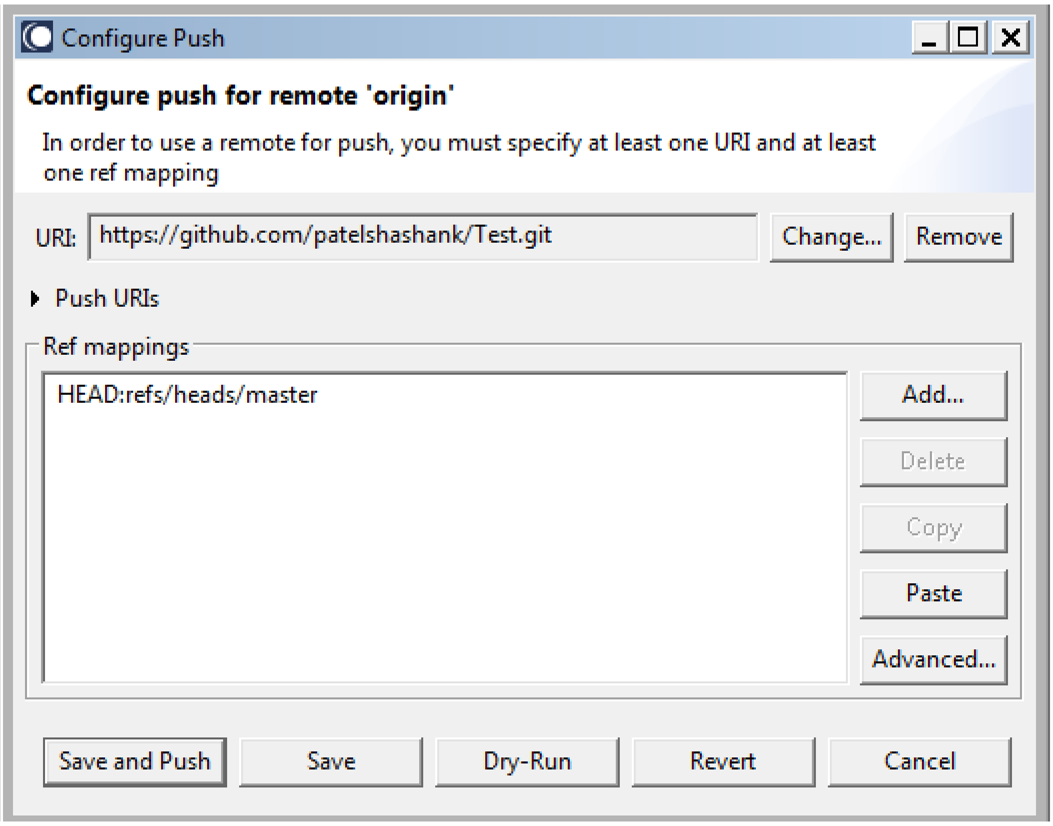
Working sets:

7) The packages can be moved or reloaded from Package explorer.



8) For pushing to upstream, it is important to configure the push.


Remotes
origin
https://github.com/patelshashank/Test.git
https://github.com/patelshashank/Test.git
Working D
.gitign
.git
AMERI
AMERI
Defaul
NewPl
WmAF
WmAF
WmAssetPublisher
WmCloud
WmFlatFile
WmISExtDC
WmPublic
WmRoot
WmTomcat
WmVCS
WmWin32
WmXSLT
instance
Push
Configure Push...
Change Credentials...
Clear Credentials
Delete Push Delete
Show In Alt+Shift+W
Paste Repository Path or URI Ctrl+V



Configure Push

Configure push for remote 'origin'

In order to use a remote for push, you must specify at least one URI and at least one ref mapping

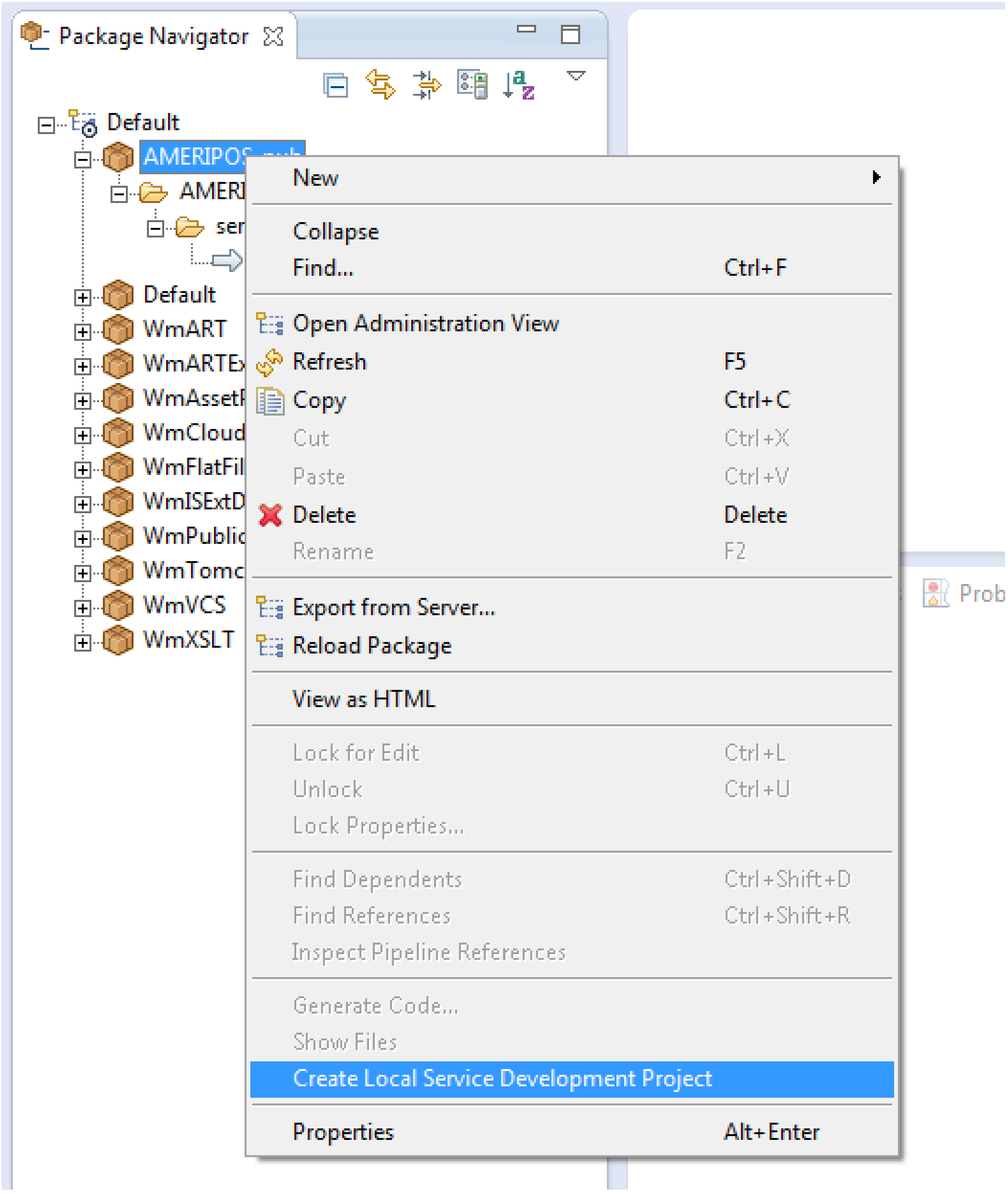
URI: https://github.com/patelshashank/Test.git

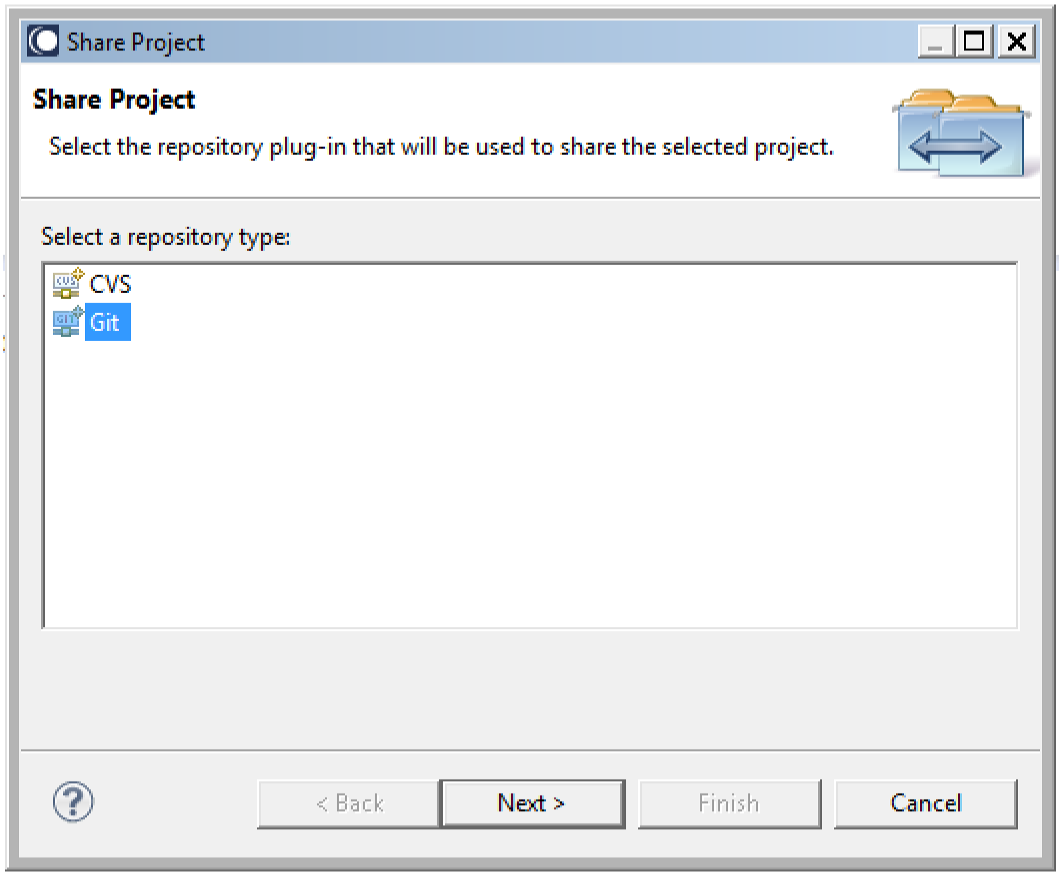
Ref mappings

HEAD:refs/heads/master

Save and Push to publish updates.

9) Follow the below steps to create a new local service development project.


Package Navigator
Default
AMERIPOS_pub
AMERI
ser
Default
WmART
WmARTE
WmAsset
WmCloud
WmFlatFil
WmISExtD
WmPublic
WmTomc
WmVCS
WmXSLT
New
Collapse
Find... Ctrl+F
Open Administration View
Refresh F5
Copy Ctrl+C
Cut Ctrl+X
Paste Ctrl+V
Delete Delete
Rename F2
Export from Server...
Reload Package
View as HTML
Lock for Edit Ctrl+L
Unlock Ctrl+U
Lock Properties...
Find Dependents Ctrl+Shift+D
Find References Ctrl+Shift+R
Inspect Pipeline References
Generate Code...
Show Files
Create Local Service Development Project
Properties Alt+Enter
Prob



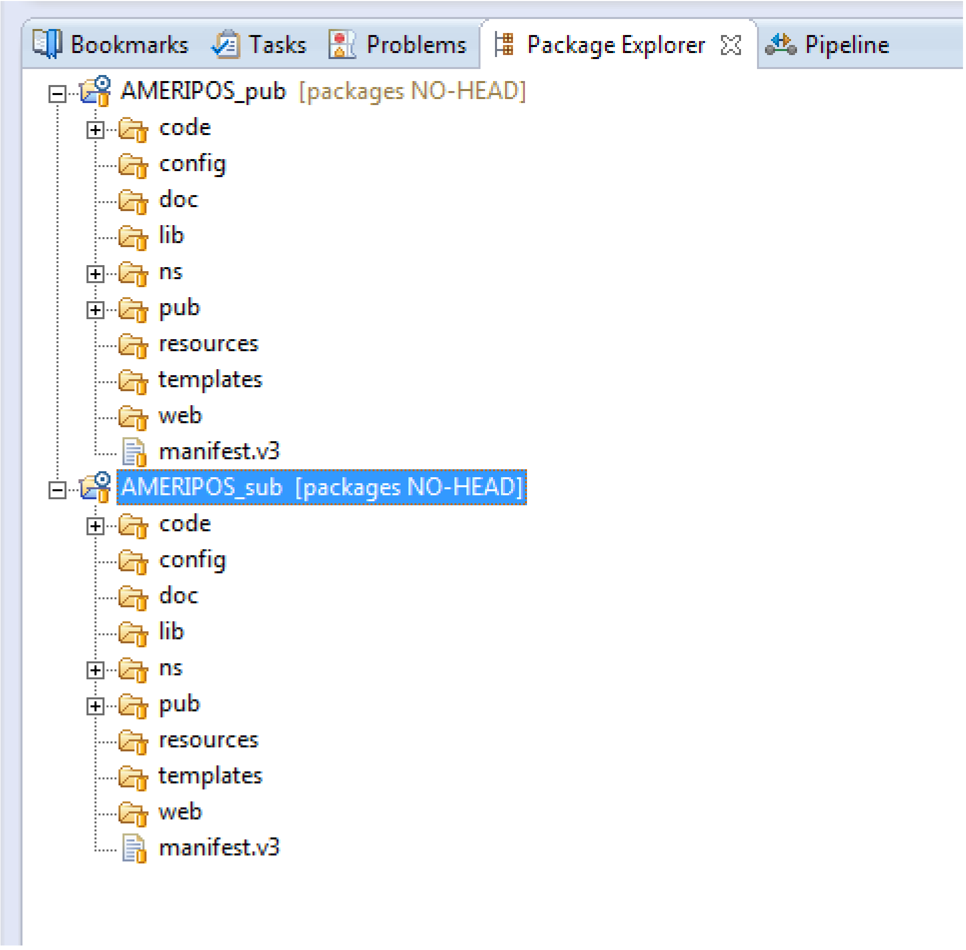
Share Project

Share Project

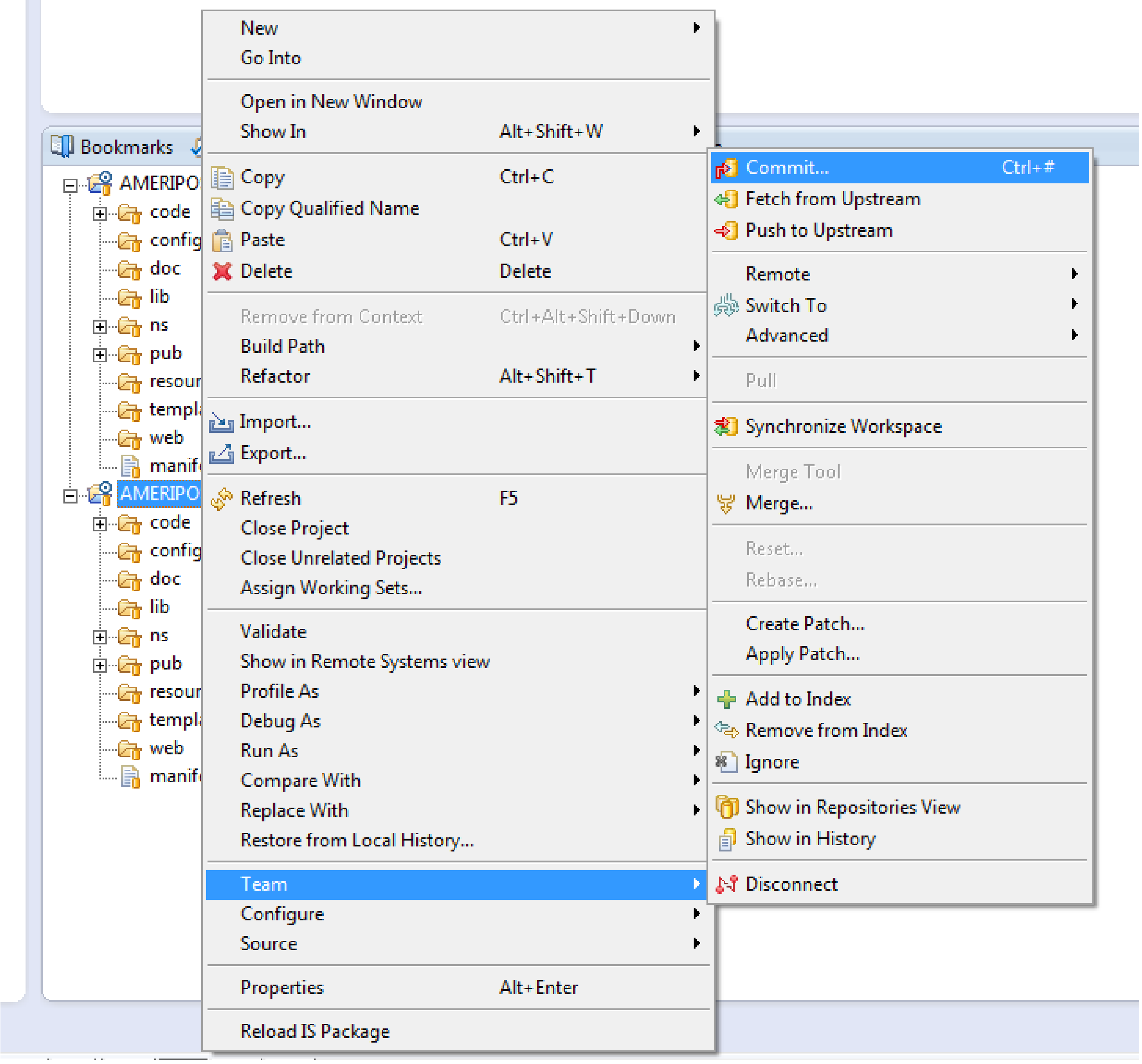
Select the repository plug-in that will be used to share the selected project.

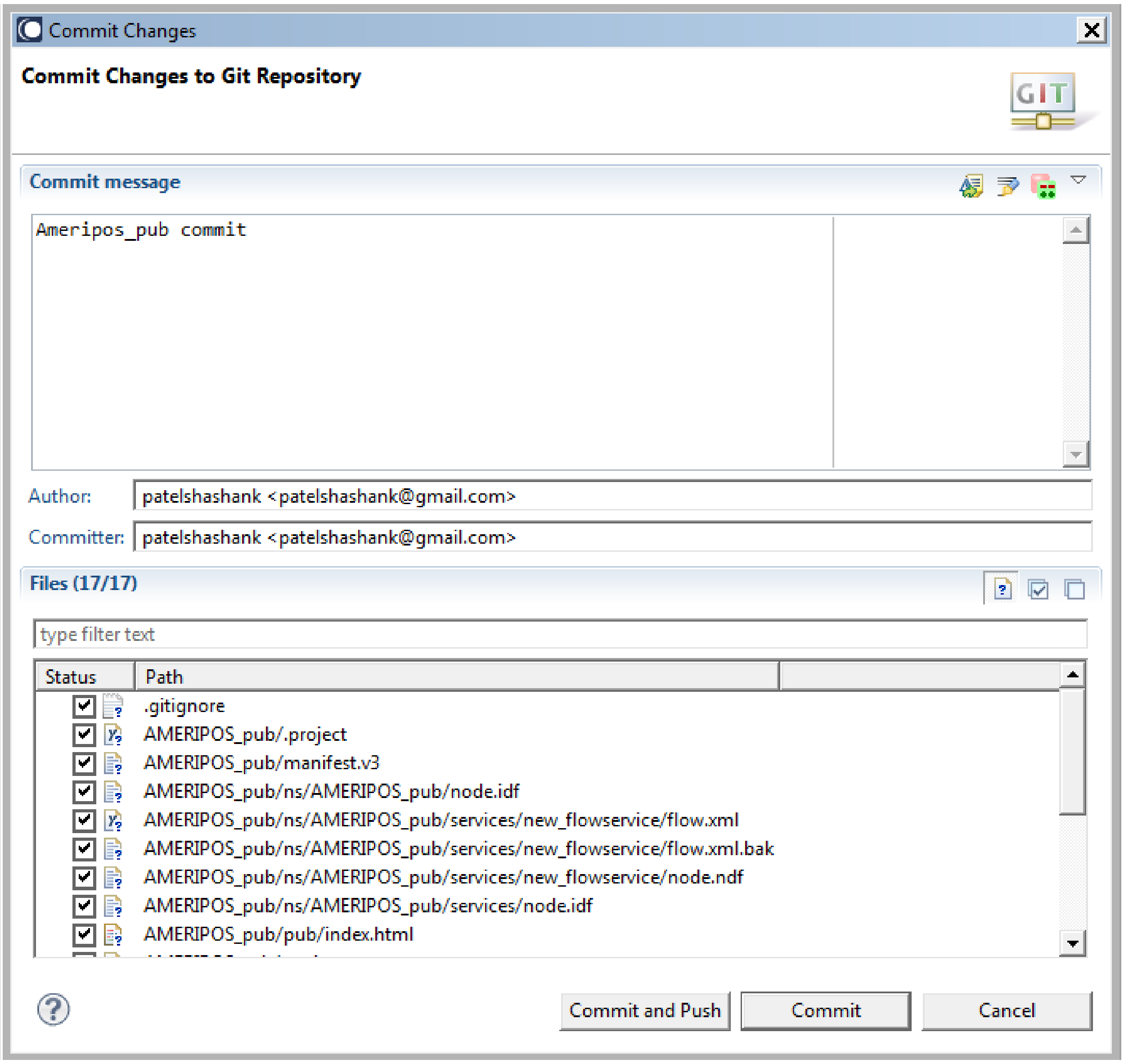
Select a repository type:

- CVS
- Git



```
AMERIPOS_pub  [packages NO-HEAD]
    code
    config
    doc
    lib
    ns
    pub
    resources
    templates
    web
    manifest.v3
AMERIPOS_sub  [packages NO-HEAD]
    code
    config
    doc
    lib
    ns
    pub
    resources
    templates
    web
    manifest.v3
```


Bookmarks
AMERIPO
code
config
doc
lib
ns
pub
resour
templ
web
manif
AMERIPO
code
config
doc
lib
ns
pub
resour
templ
web
manif
New
Go Into
Open in New Window
Show In Alt+Shift+W
Copy Ctrl+C
Copy Qualified Name
Paste Ctrl+V
Delete Delete
Remove from Context Ctrl+Alt+Shift+Down
Build Path
Refactor Alt+Shift+T
Import...
Export...
Refresh F5
Close Project
Close Unrelated Projects
Assign Working Sets...
Validate
Show in Remote Systems view
Profile As
Debug As
Run As
Compare With
Replace With
Restore from Local History...
Team
Configure
Source
Properties Alt+Enter
Reload IS Package
Commit... Ctrl+#
Fetch from Upstream
Push to Upstream
Remote
Switch To
Advanced
Pull
Synchronize Workspace
Merge Tool
Merge...
Reset...
Rebase...
Create Patch...
Apply Patch...
Add to Index
Remove from Index
Ignore
Show in Repositories View
Show in History
Disconnect



```
Ameripos_pub commit
```

Author: patelshashank <patelshashank@gmail.com>

Committer: patelshashank <patelshashank@gmail.com>

Status	Path
☑	.gitignore
☑	AMERIPOS_pub/.project
☑	AMERIPOS_pub/manifest.v3
☑	AMERIPOS_pub/ns/AMERIPOS_pub/node.idf
☑	AMERIPOS_pub/ns/AMERIPOS_pub/services/new_flowservice/flow.xml
☑	AMERIPOS_pub/ns/AMERIPOS_pub/services/new_flowservice/flow.xml.bak
☑	AMERIPOS_pub/ns/AMERIPOS_pub/services/new_flowservice/node.ndf
☑	AMERIPOS_pub/ns/AMERIPOS_pub/services/node.idf
☑	AMERIPOS_pub/pub/index.html