

How to deploy files to service.unece.org

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This how-to describes process of getting files from your local PC to service.unece.org using Repositories and Pipelines. Should be referred to typically when a new version of UN/EDIFACT, UN/LOCODE or other deliverable hosted on service.unece.org is produced and needs to be published.



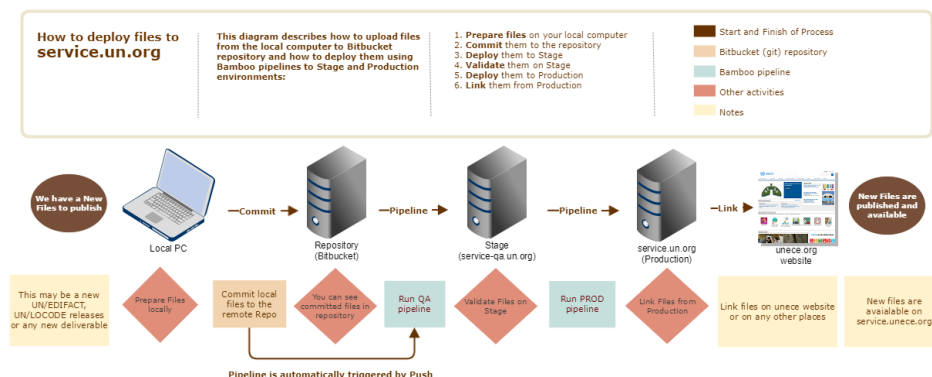
Terms

- **Local Repository** - Folders and files on your Local PC
- **Remote Repository** - Folders and files on remote Server, these files are used by Pipeline
- **Clone** - Process of initial copying files from a Remote Repository to your Local Repository
- **Commit** - Finalizing a change in files, should contain comment message, describing reason for and nature of the change
- **Push** - Process of moving changes from Local Repository to Remote Repository, one Push can contain multiple commits
- **Pipeline** - Automated process for moving files between environments (typically Remote Repository Stage Production)
- **Stage** - Staging / Testing / Quality Assurance (QA) environment, serves for final validation of our files before moving them into Production environment (service-qa.unece.org)
- **Production** - Production environment, final destination of our files (service.unece.org)

(Terms not covered: Pull (*to be added*), Pull-request, Branch, Merge, other Git's features)

Diagram

Simplified diagram of the whole process:



Resources

Repository Web interface

- UNECE Bitbucket - <https://bitbucket.unece.org>
- Trade Repositories - <https://bitbucket.unece.org/projects/TRADE>
 - UN/CEFACT (BRS, CCL, Codelists, Recommendations, RSM, XML Schemas, etc.) - <https://bitbucket.unece.org/projects/TRADE/repos/uncefactservice/browse>
 - UN/LOCODE - <https://bitbucket.unece.org/projects/TRADE/repos/locodeservice/browse>
 - UNTDID (UN/EDIFACT) - <https://bitbucket.unece.org/projects/TRADE/repos/untdidservice/browse>

Repository GUI

- Sourcetree - <https://www.sourcetreeapp.com/> or local [SourceTreeSetup-2.6.9.exe](#)
- Prerequisite to install Sourcetree is MS .NET Framework 7.4.1
 - Web Installer - <https://www.microsoft.com/en-us/download/details.aspx?id=56115> or local [NDP471-KB4033344-Web.exe](#)
 - Offline Installer - <https://www.microsoft.com/en-us/download/details.aspx?id=56116>

Pipeline Web interface

- UNECE Bamboo - <https://bamboo.unece.org>
- Trade Pipelines - <https://bamboo.unece.org/browse/TRADE>
 - UN/CEFACT Pipeline - <https://bamboo.unece.org/browse/TRADE-SU2>
 - UN/LOCODE Pipeline - <https://bamboo.unece.org/browse/TRADE-SL>
 - UNTDID (UN/EDIFACT) Pipeline - <https://bamboo.unece.org/browse/TRADE-SU>

Working with Git

Official Sourcetree documentation

- **Install** Sourcetree <https://confluence.atlassian.com/get-started-with-sourcetree/install-sourcetree-847359094.html>
- **Connect** your Bitbucket or Github account <https://confluence.atlassian.com/get-started-with-sourcetree/connect-your-bitbucket-or-github-account-847359096.html>
- **Clone** a remote repository <https://confluence.atlassian.com/get-started-with-sourcetree/clone-a-remote-repository-847359098.html>
- **Commit** and **push** a change (Git) <https://confluence.atlassian.com/get-started-with-sourcetree/commit-and-push-a-change-git-847359114.html>
- **Pull** changes from a remote repository (Git) <https://confluence.atlassian.com/get-started-with-sourcetree/pull-changes-from-a-remote-repository-git-847359111.html>

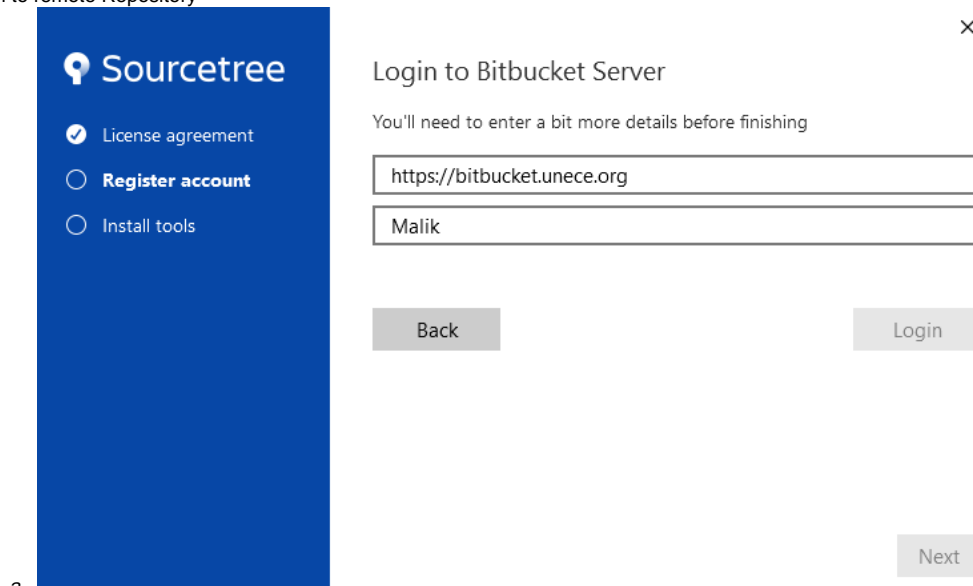
Step-by-step guide

Installing and Configuring tools

Sourcetree Initial configuration

- Download and install Sourcetree, if needed install also MS .NET Framework 7.4.1, as this requires Administrator privileges, ask ISU for assistance
- After Installation run Sourcetree application
- As part of initial execution, configure Sourcetree - useraccount and tools

1. Login to remote Repository



The screenshot shows the Sourcetree application window. On the left is a blue sidebar with the Sourcetree logo and three options: 'License agreement' (selected with a checkmark), 'Register account', and 'Install tools'. The main window area is titled 'Login to Bitbucket Server' and contains a message: 'You'll need to enter a bit more details before finishing'. Below this message are two input fields: the first contains the URL 'https://bitbucket.unece.org' and the second contains the username 'Malik'. At the bottom of the main area are three buttons: 'Back', 'Login', and 'Next'. The 'Login' button is highlighted.

2. Authenticate user (using Windows / Active Directory credentials)

Authenticate [X]

Login required for: <https://bitbucket.unece.org>

Username:

Password:

☐ Remember password


a.

3. If Credentials are correct, you should see confirmation

Sourcetree

- ☒ License agreement
- ☐ **Register account**
- ☐ Install tools

Registration Complete!



You are logged in as **Tomas.Malik@unece.org**



a.

4. Select modules for installation (we need only Git)

Sourcetree

- ☒ License agreement
- ☒ Register account
- ☐ Install tools

Pick tools to download and install


<input checked="" type="checkbox"/>  Git	36.27 MB
Not Installed	
<input type="checkbox"/>  Mercurial	6.66 MB
Not Installed	

a.

5. Module installation - progress

a.

6. Module installation - confirmation

 **Sourcetree**

☒ License agreement

☒ Register account

☐ **Install tools**

Downloading version control systems...

Downloading Git : 86%

☒ Configure automatic line ending handling by default (recommended)

Next

 **Sourcetree**

☒ License agreement

☒ Register account

☐ Install tools

Tool installation completed.



Next

 **Load SSH Key?**



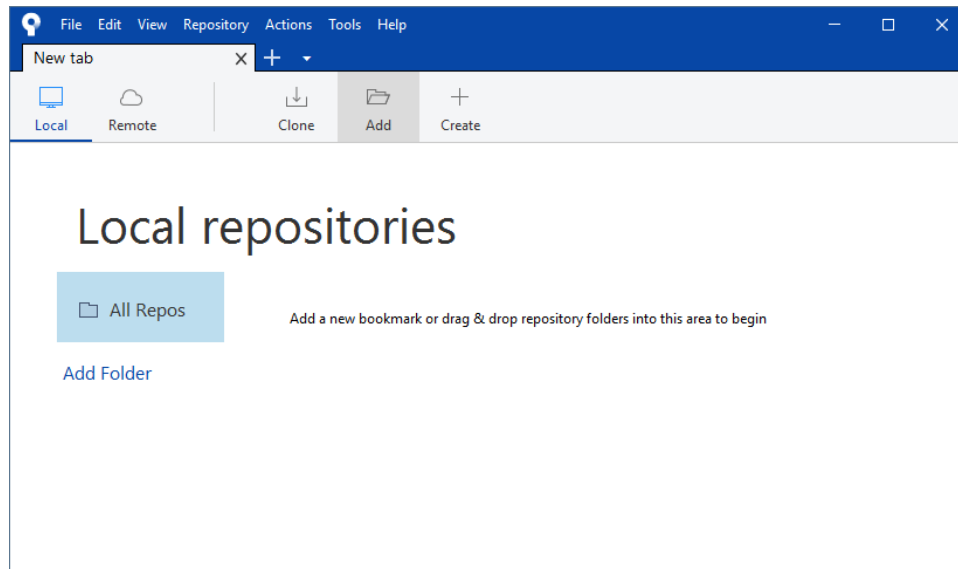
Do you have an SSH key that you'd like to load now? If not you can click 'No' and create one later if you like.

Yes

No

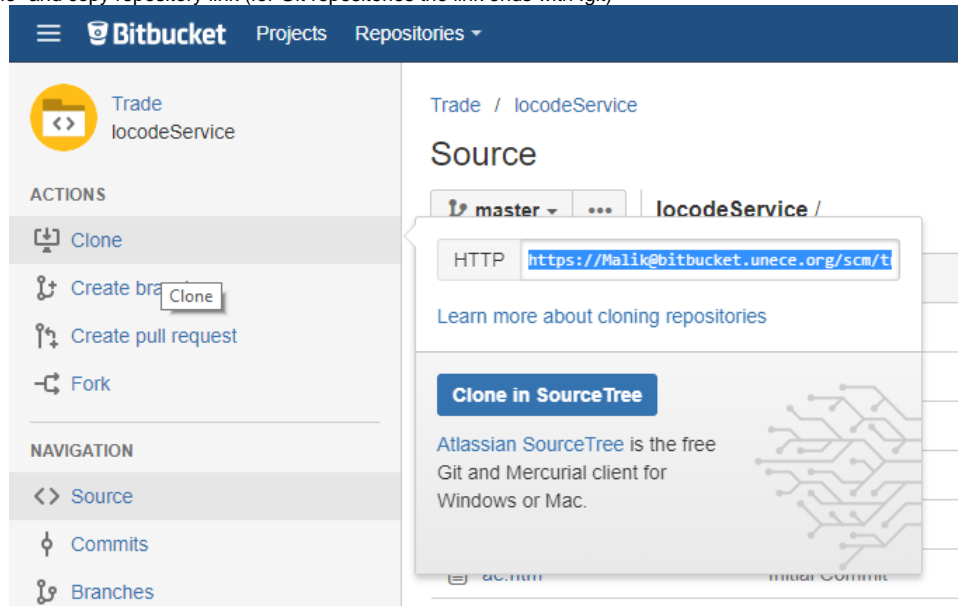
Cloning Repository

- After Initial setup we configure and clone repositories
 1. Add a new repository



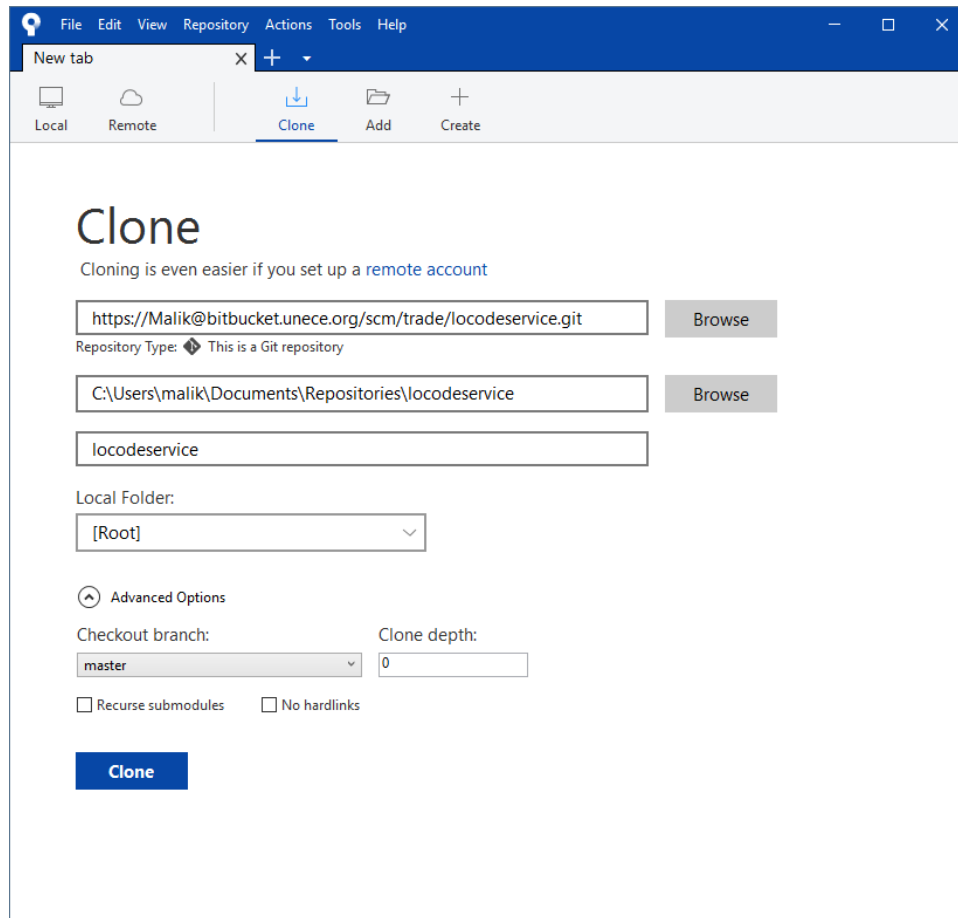
a.

2. On Remote Repository (bitbucket.unece.org), select your Repository and click "Clone in SourceTree" for easy configuration, or click on "Clone" and copy repository link (for Git repositories the link ends with .git)

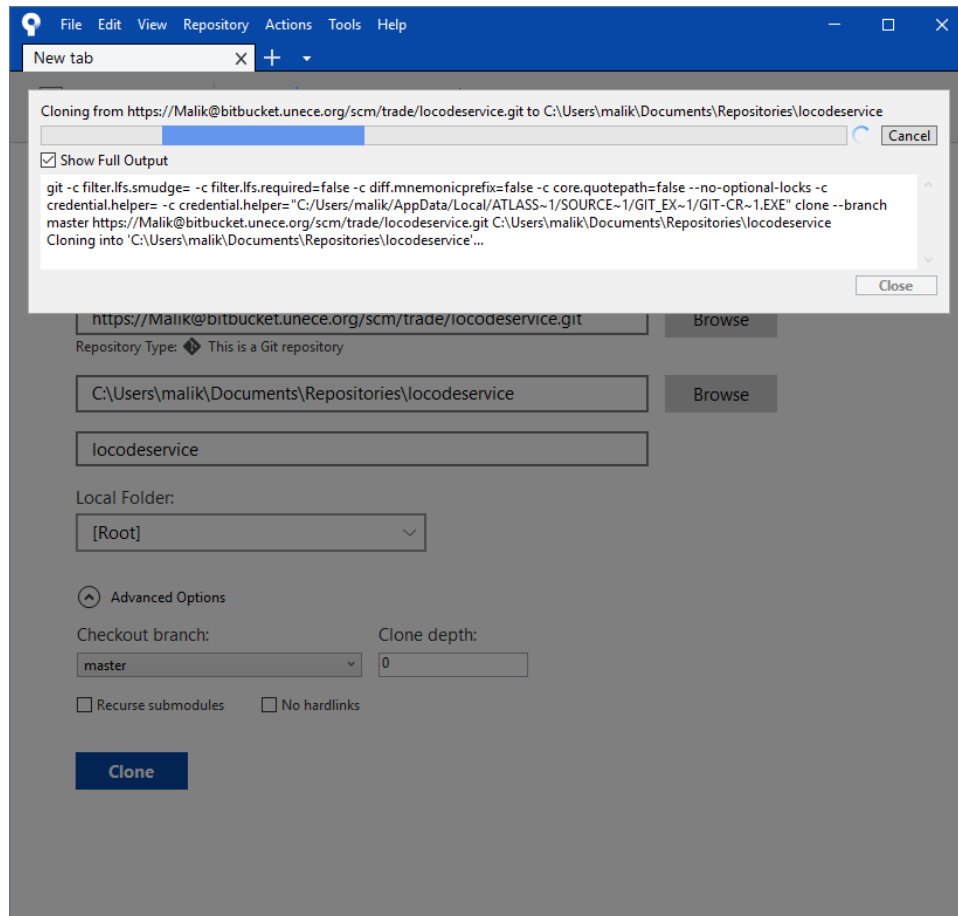


a.

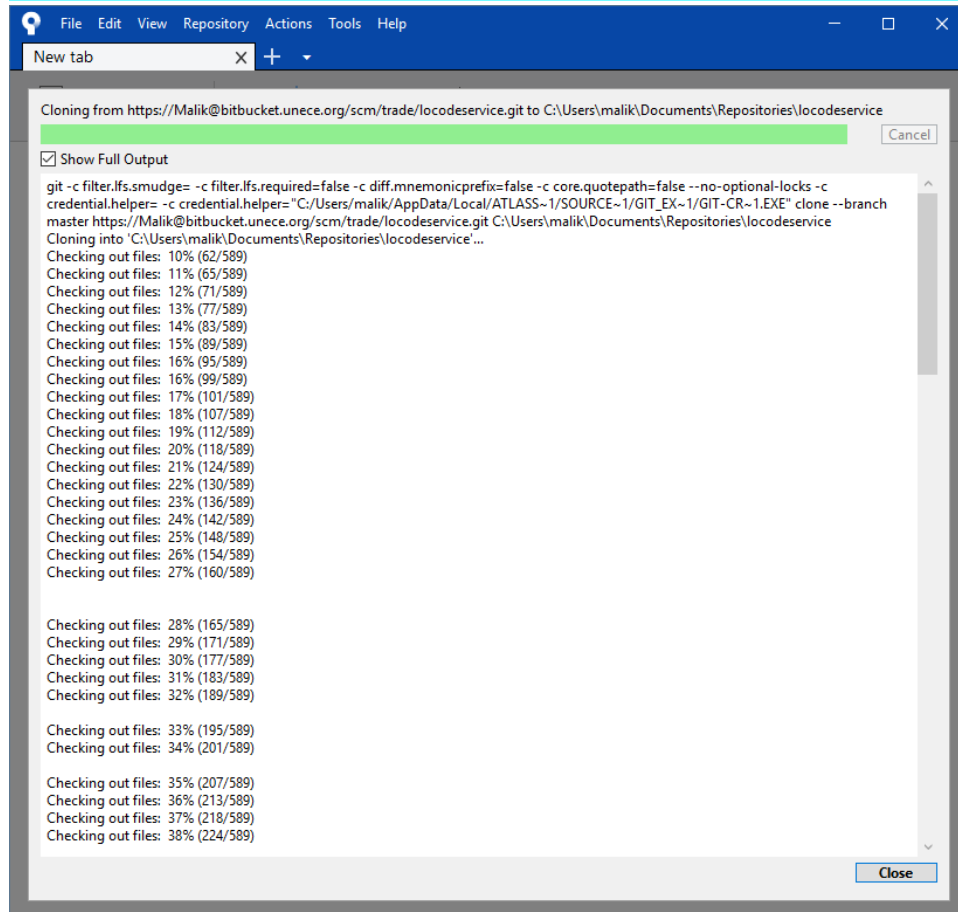
3. Review Cloning configuration, select your local folder where files should be stored



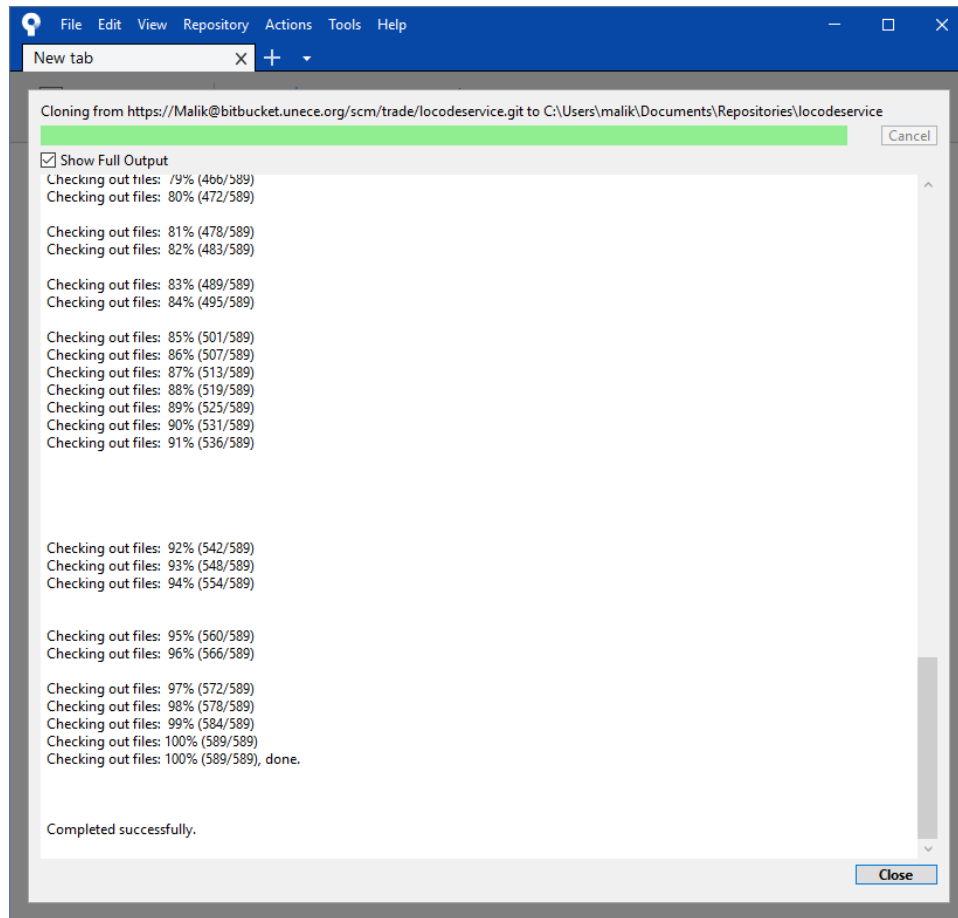
- a.
4. Run Clone and wait for process to finish



a.



b.



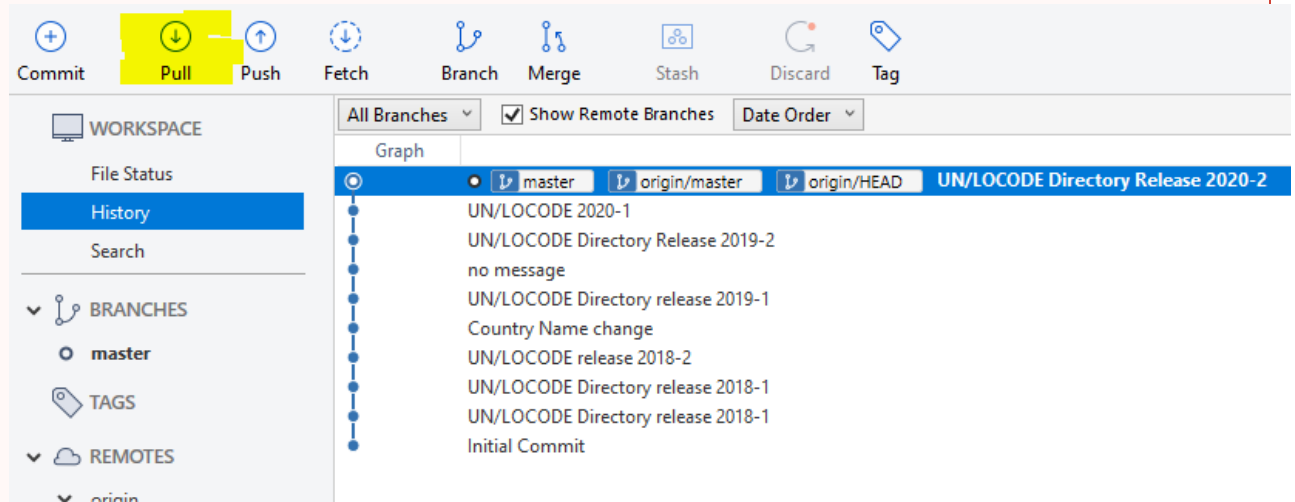
c.

Making a change in files

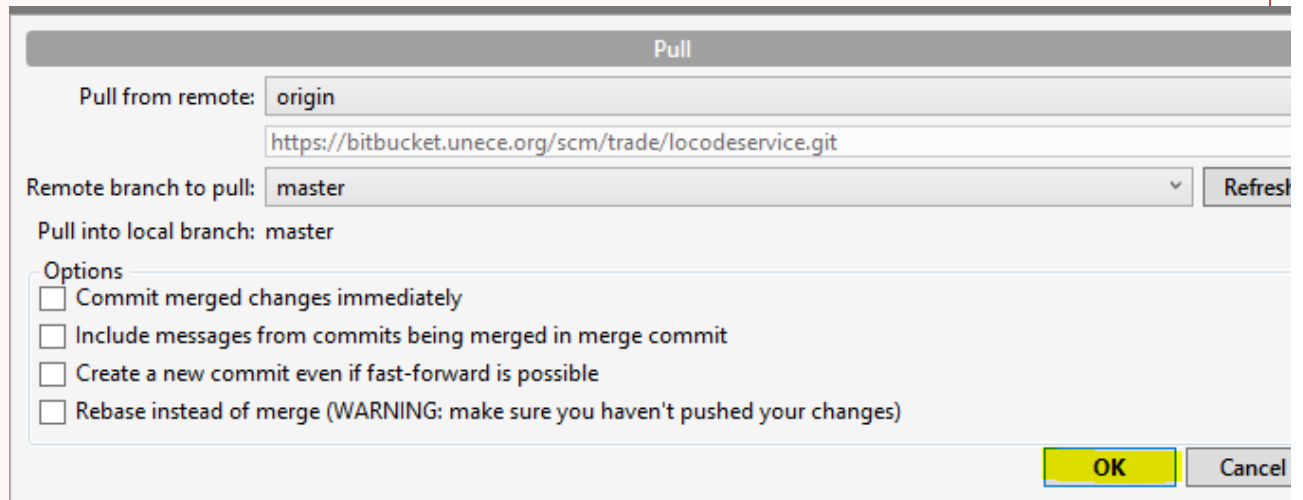
Be sure you are working on up to date copy

Before you perform any changes in your local files, be sure you have the latest state of remote repository synchronized with your local repository

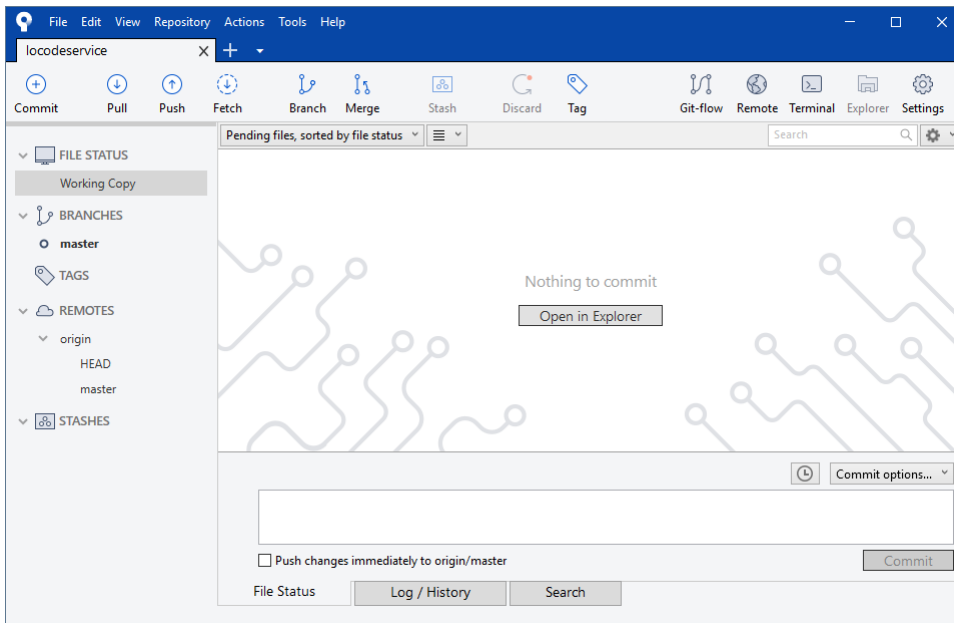
to do this we perform "Pull" action, this will retrieve the latest files from remote repository and update the local one, this will also make sure we are working on the latest version of files and generally prevent conflicts when committing changes.



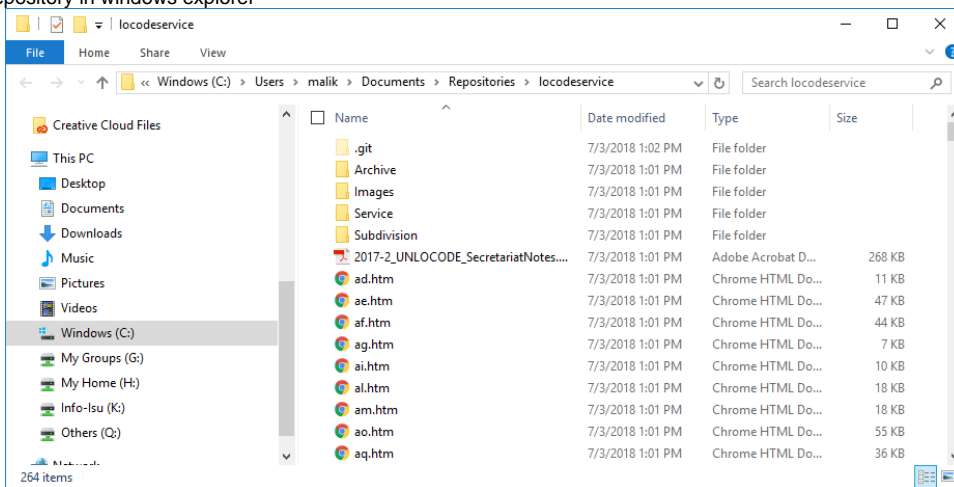
and confirm pull from master branch



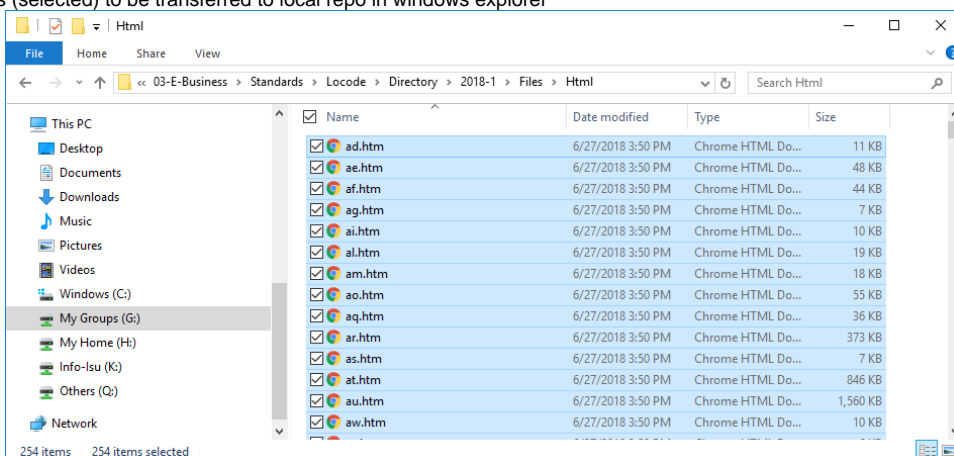
- Local repo without a change, after Initial Cloning we have a files in Local Repo the same state as they appear on Remote Repo (local repo is in sync with the remote repo)



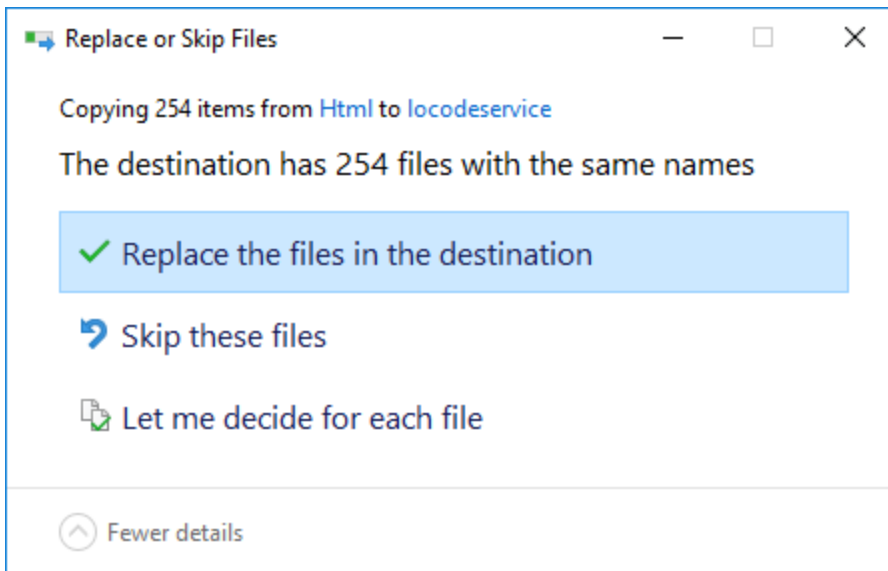
- Local Repository in windows explorer



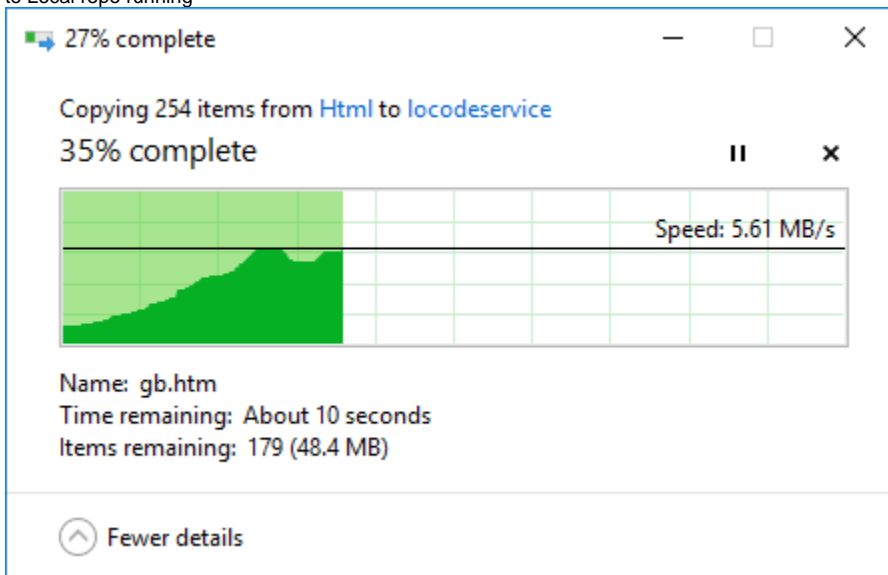
- New files (selected) to be transferred to local repo in windows explorer



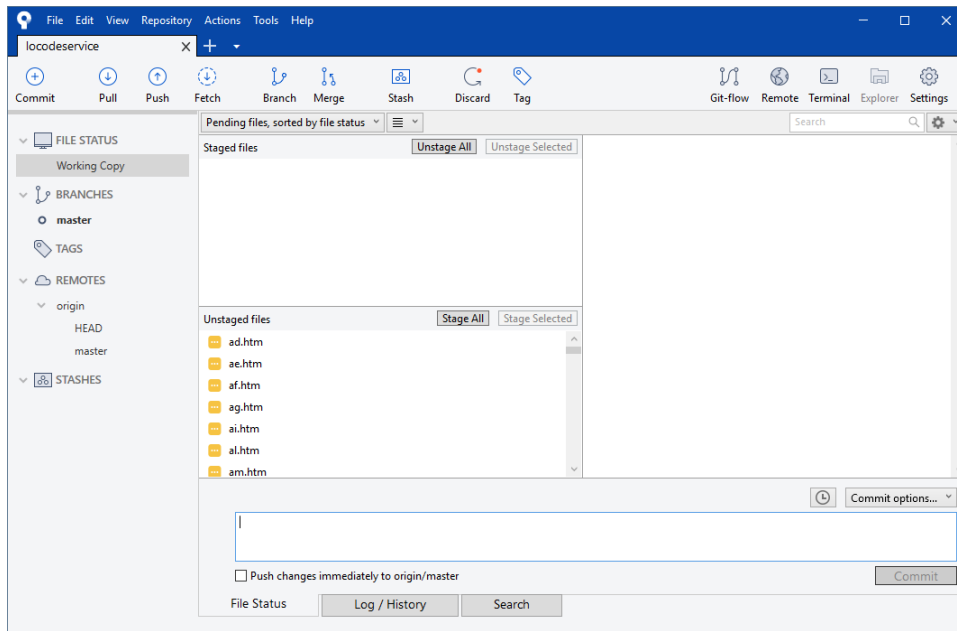
- Transfer to local repo Overwrite prompt (if updating files to a new version)



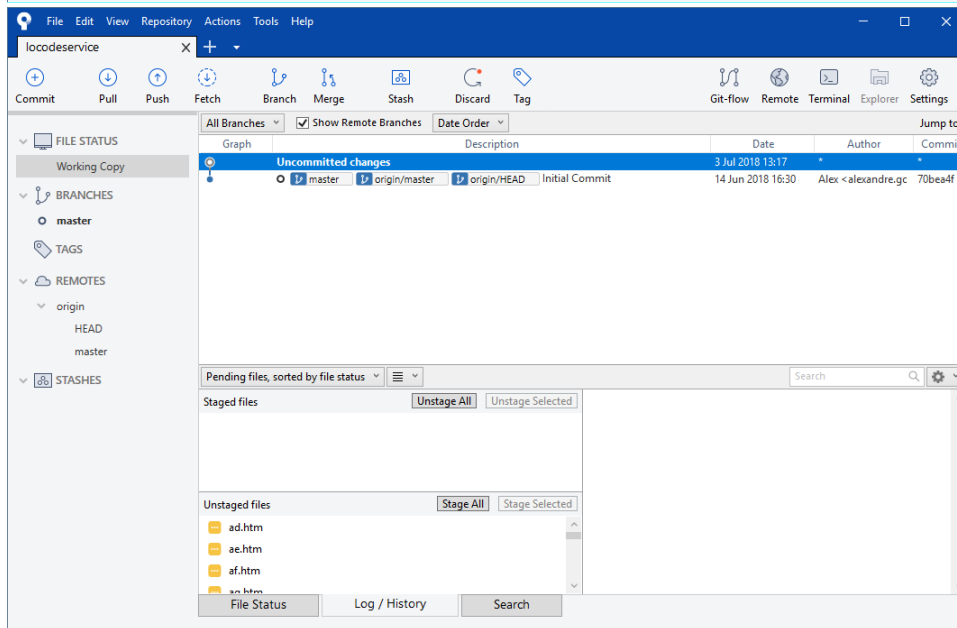
- Transfer to Local repo running



- We have a new files (we updated the current files) in our local repo (this is considered as a change, another type of change is adding and removing files/folders)
 1. New files in local repo - see file status and commit log

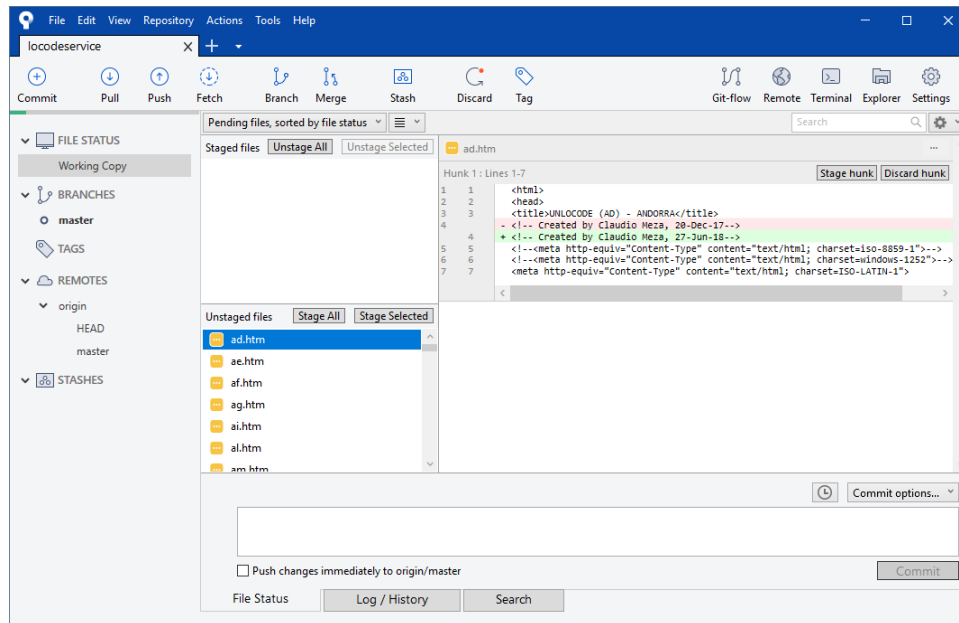


a.

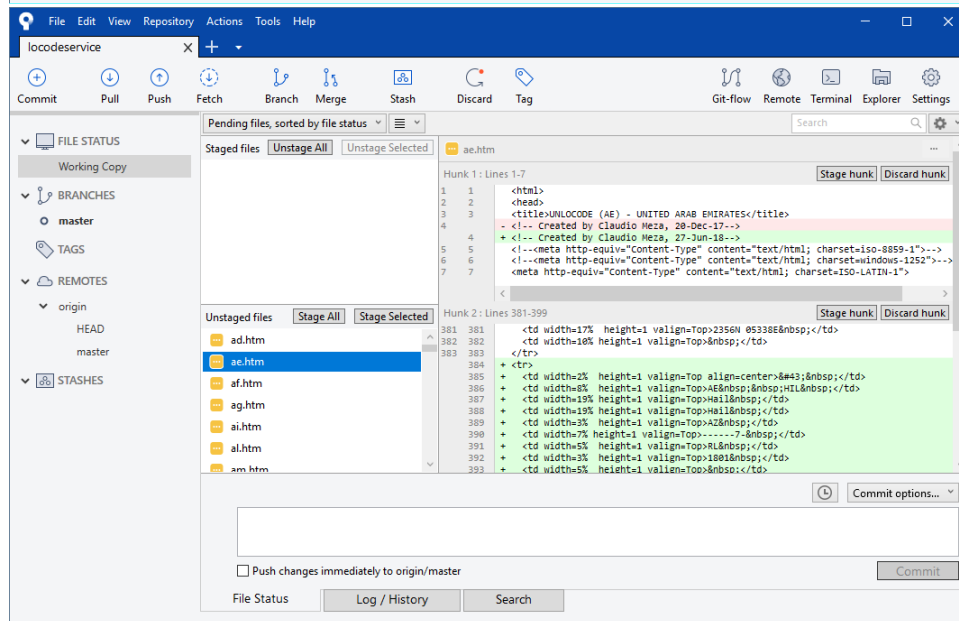


b.

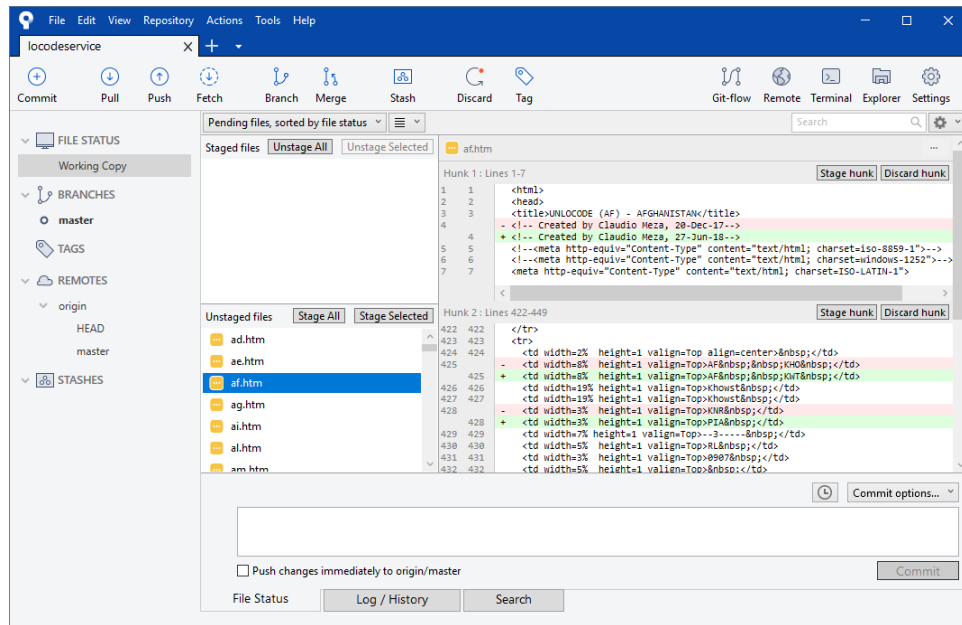
2. Differences - after selecting the file we can see details of Changes



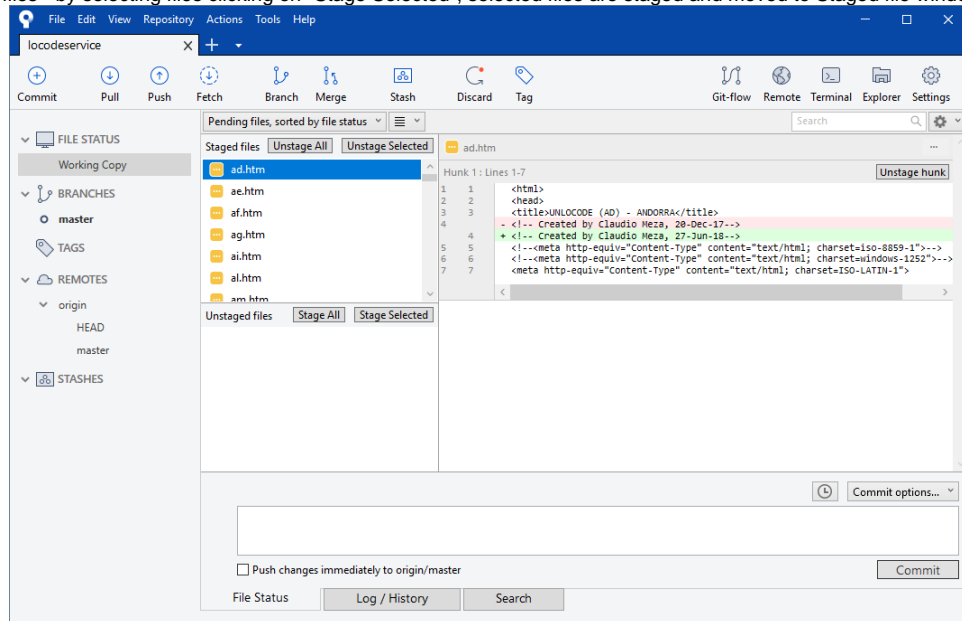
a.



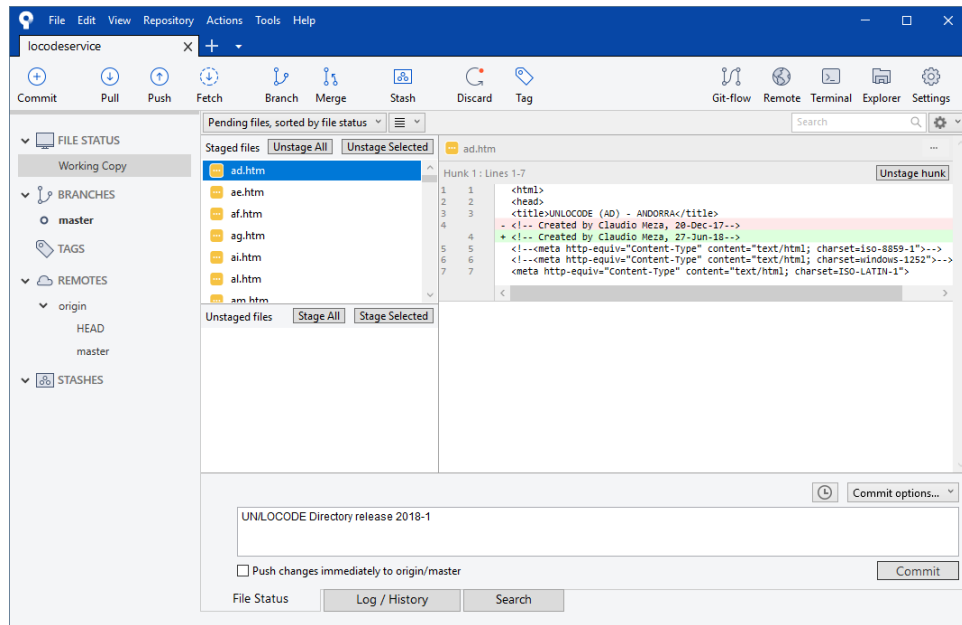
b.



- c.
3. Staging files - by selecting files clicking on "Stage Selected", selected files are staged and moved to Staged file window

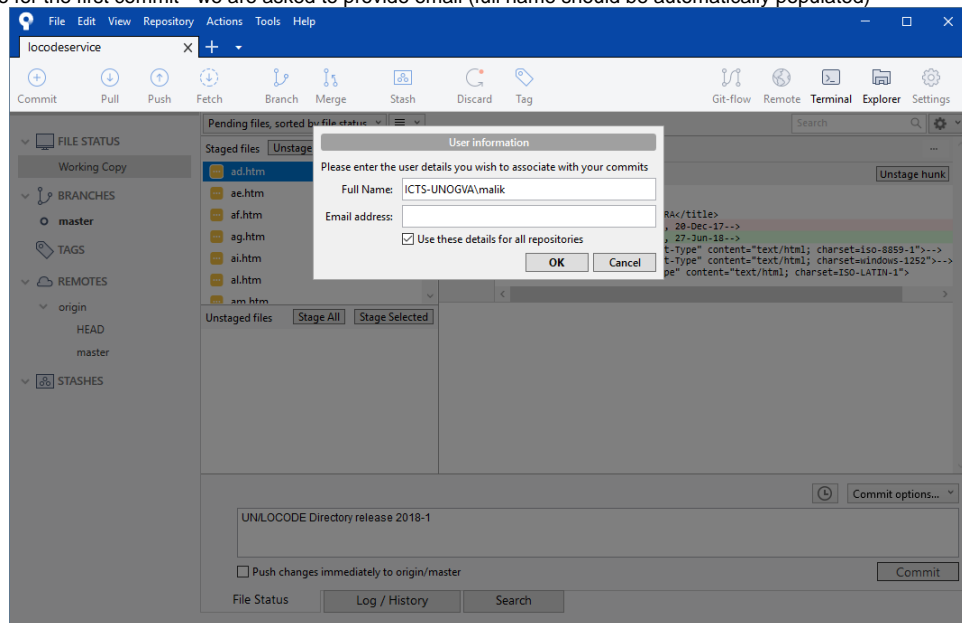


- a.
4. Adding commit message - we add commit message explaining nature of the change

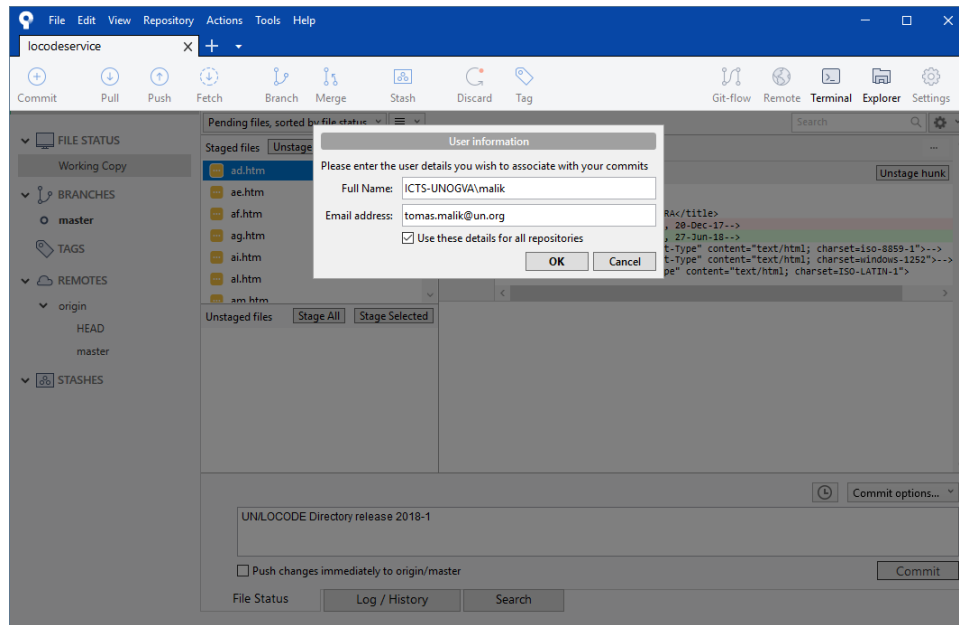


a.

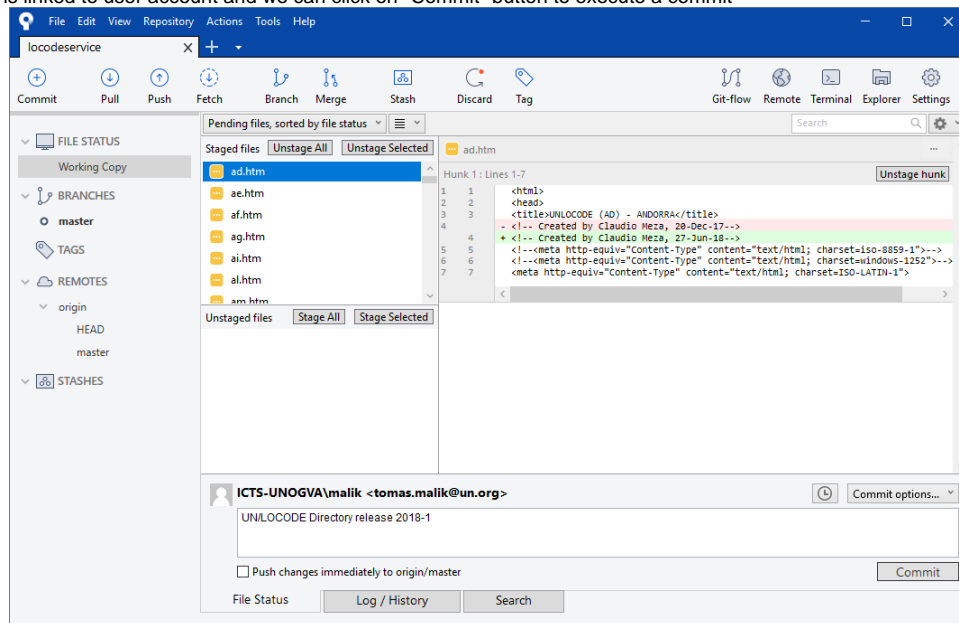
5. User info for the first commit - we are asked to provide email (full name should be automatically populated)



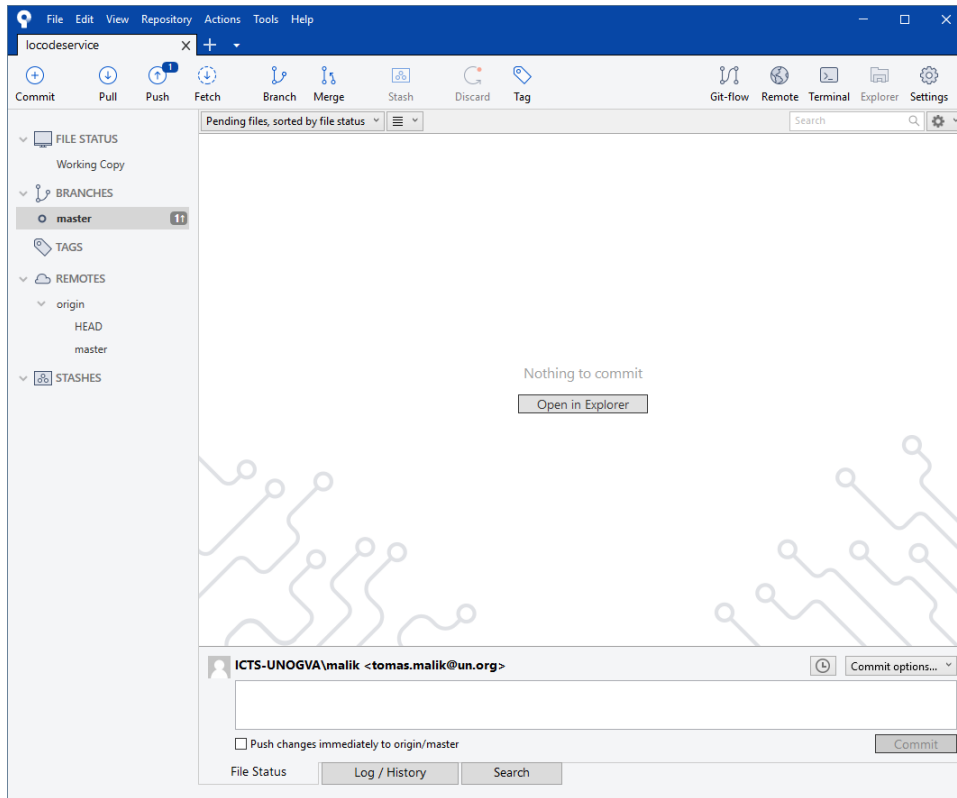
a.



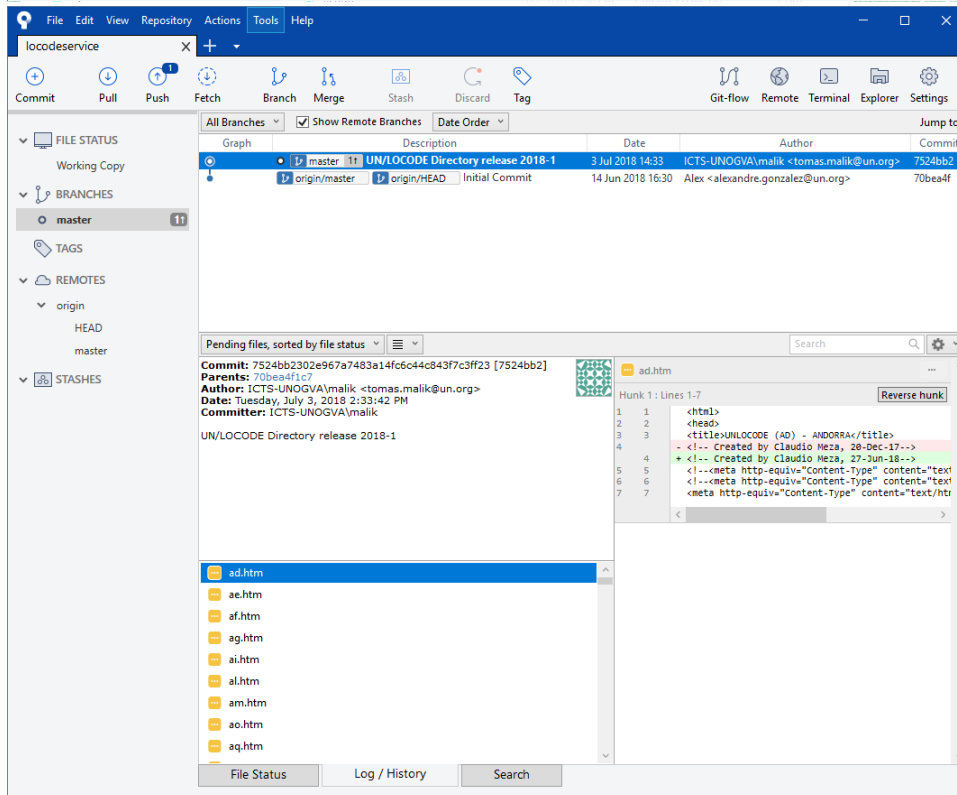
- b.
6. Commit is linked to user account and we can click on "Commit" button to execute a commit



- a.
7. After commit is executed, changes are prepared to be Pushed to remote repository, Push will become available

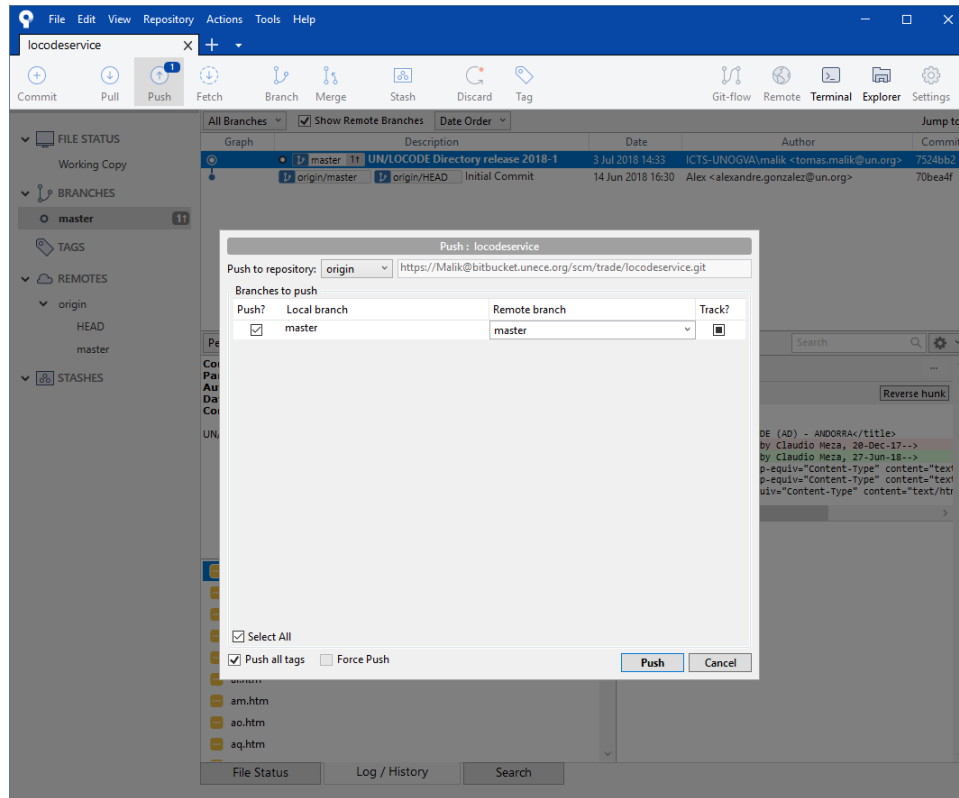


a.



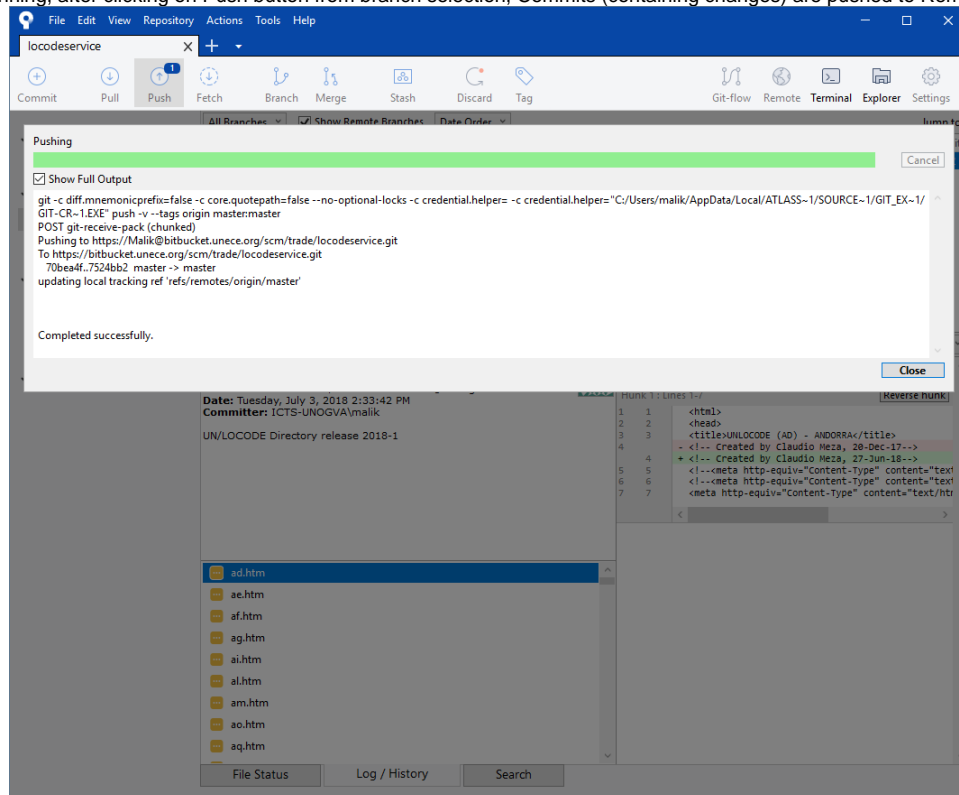
b.

8. Push - after clicking on "Push" button, we are asked to select branch, in this simple example we are staying in only one branch - master



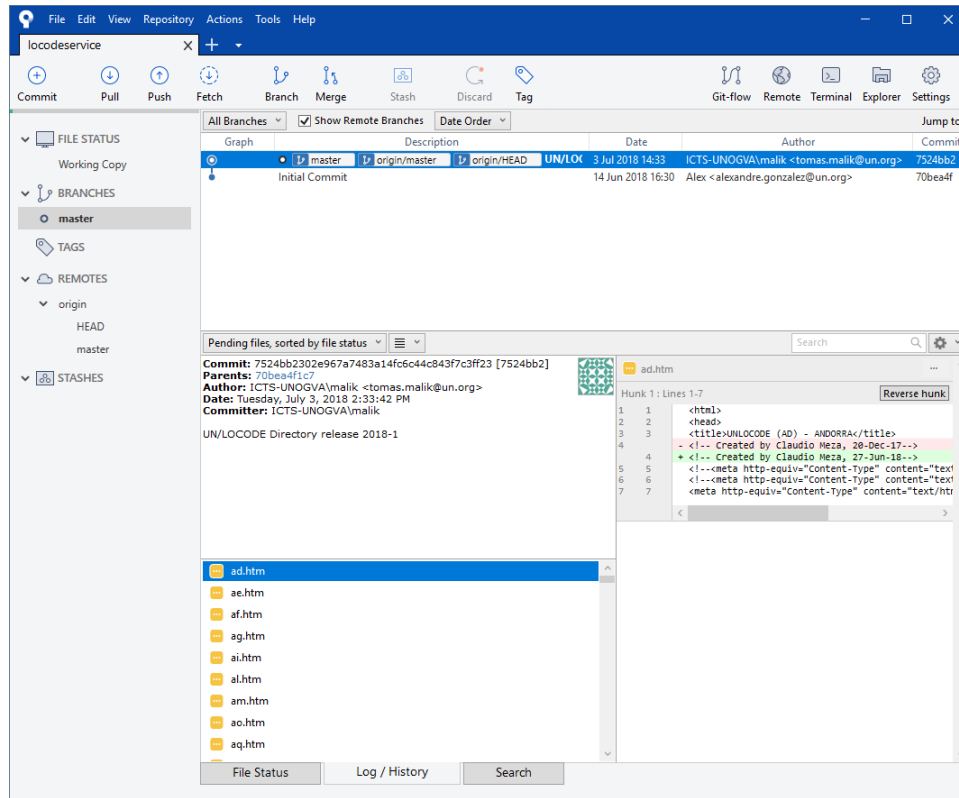
a.

9. Push running, after clicking on Push button from branch selection, Commits (containing changes) are pushed to Remote Repository



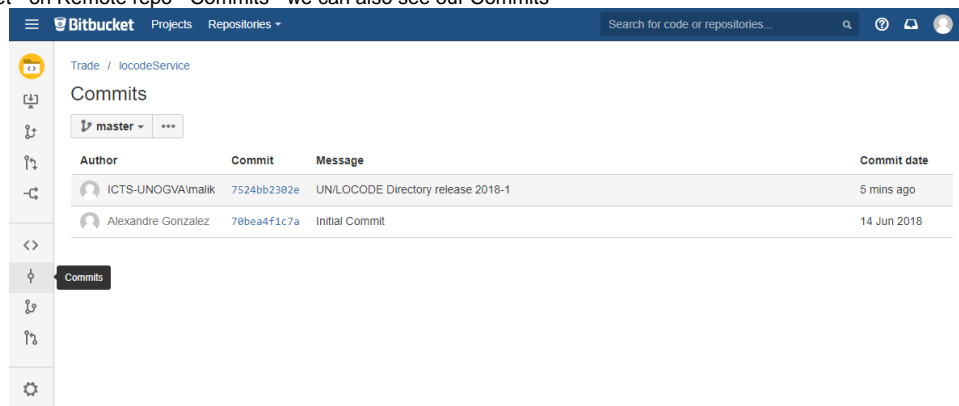
a.

10. Push completed, we can see our changes in Graph view on Log/History tab



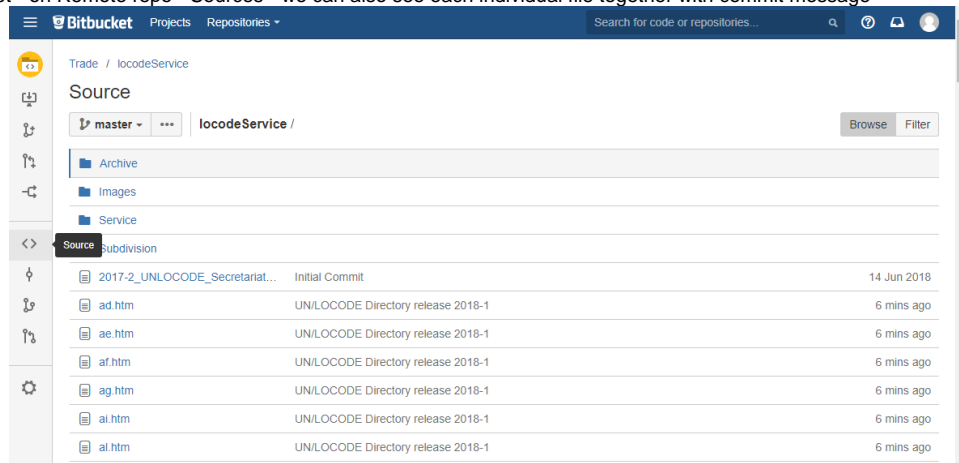
a.

11. Bitbucket - on Remote repo - Commits - we can also see our Commits



a.

12. Bitbucket - on Remote repo - Sources - we can also see each individual file together with commit message



a.

Running Pipelines

- Go to Trade Division pipelines - <https://bamboo.unece.org/browse/TRADE>

The screenshot shows the Bamboo project overview for 'Trade Division'. It features a table with columns: Plan, Build, Completed, Tests, and Reason. The table lists three plans: 'Service LOCODE' (Build #4, 1 minute ago, No tests found), 'Service UNCEFACT' (Build #1, 2 weeks ago, No tests found), and 'Service UNTDID' (Build #10, 1 week ago, No tests found). The Reason column provides details for each build. Below the table, there is a footer with the Atlassian logo and version information: 'Continuous integration powered by Atlassian Bamboo version 6.0.3 build 60004 - 07 Jun 17'.

Plan	Build	Completed	Tests	Reason
Service LOCODE	#4	1 minute ago	No tests found	Changes by ICTS-UNOGVA\malik <tomas.malik@un.org>
Service UNCEFACT	#1	2 weeks ago	No tests found	Manual run from the stage: Deploy to PRD by Alexandre Gonzalez
Service UNTDID	#10	1 week ago	No tests found	Manual run from the stage: Deploy to PRD by Alexandre Gonzalez

Continuous integration powered by Atlassian Bamboo version 6.0.3 build 60004 - 07 Jun 17

Report a problem · Request a feature · Contact Atlassian · Contact Administrators

1. Select desired Pipeline (in our case, as we are deploying new LOCODE Directory version - we use "Service LOCODE" pipeline)

The screenshot shows the 'Service LOCODE' plan summary page. It includes a 'Plan summary' section with 'Current activity' (No builds are currently running) and 'Recent history' (a list of builds with details like 'Changes by ICTS-UNOGVA\malik <tomas.malik@un.org>', 'Manual run by Alexandre Gonzalez', and 'Manual run from the stage: Deploy to PRD by Alexandre Gonzalez'). On the right, 'Plan statistics' show '3 builds', '100% successful', and '< 1s average duration'. The footer includes the Atlassian logo and version information: 'Continuous integration powered by Atlassian Bamboo version 6.0.3 build 60004 - 07 Jun 17'.

Plan summary

Current activity

No builds are currently running.

Recent history

- #4 Changes by ICTS-UNOGVA\malik <tomas.malik@un.org> 2 minutes ago Testless build
- #3 Manual run by Alexandre Gonzalez 4 hours ago Testless build
- #2 Manual run from the stage: **Deploy to PRD** by Alexandre Gonzalez 2 weeks ago Testless build
- #1 Rebuilt by Alexandre Gonzalez 2 weeks ago Testless build **REBUILD**

Latest build Last successful build

Feed for all builds or just the failed builds.

Plan statistics

3 builds

100% successful

< 1s average duration

Continuous integration powered by Atlassian Bamboo version 6.0.3 build 60004 - 07 Jun 17

Report a problem · Request a feature · Contact Atlassian · Contact Administrators

- a.
2. Select job (plan) to run

This screenshot is identical to the previous one, showing the 'Service LOCODE' plan summary page with the same build history and statistics.

- a.

From Local Repository to Stage

1. Deploy to Stage - Run plan

Bamboo My Bamboo Build Deploy Reports Search

Build projects / Trade Division / **Service LOCODE**

Run Run plan Run customised...

Plan summary Recent failures History Tests Issues

Plan summary

Current activity

No builds are currently running.

Recent history

Build #	Description	Time	Status
#4	Changes by ICTS-UNOGVA\malik <tomas.malik@un.org>	2 minutes ago	Testless build
#3	Manual run by Alexandre Gonzalez	4 hours ago	Testless build
#2	Manual run from the stage: Deploy to PRD by Alexandre Gonzalez	2 weeks ago	Testless build
#1	Rebuilt by Alexandre Gonzalez	2 weeks ago	Testless build REBUILD

Latest build Last successful build

Feed for all builds or just the failed builds.

Showing Last 25 builds

Plan statistics

3 builds

100% successful

< 1s average duration

Continuous integration powered by Atlassian Bamboo version 6.0.3 build 60004 - 07 Jun 17

Report a problem Request a feature Contact Atlassian Contact Administrators

Atlassian

a.

2. Deploy to Stage - running

Bamboo My Bamboo Build Deploy Reports Search

Build projects / Trade Division / Service LOCODE

Build #5

#5 is building - 16 secs remaining - Manual run by Tomas.Malik

Stages & jobs

Deploy to STAGING

Deploy STAGING

Deploy to PRD

Deploy PRD

Summary Commits Artifacts Logs Issues

Build result summary

Details

Started 03 Jul 2018, 2:43:44 PM - 5 seconds ago

Labels None

Revision 7524bb23...

Write a comment...

Live activity log for Deploy STAGING

```

03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc132mb.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc132txt.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc141cav.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc141mb.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc141txt.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc142cav.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc142mb.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc142txt.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc151cav.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc151mb.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc151txt.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc152cav.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc152mb.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc152txt.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc161cav.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc161mb.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc161txt.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc162cav.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc162mb.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc162txt.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc171cav.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc171mb.zip'...
03-Jul-2018 14:43:46 Uploading 'trade/locode/Archive/loc171txt.zip'...

```

a.

3. Deploy to Stage - completed

4. Changes appear on Stage for validation (service-qa.unece.org)

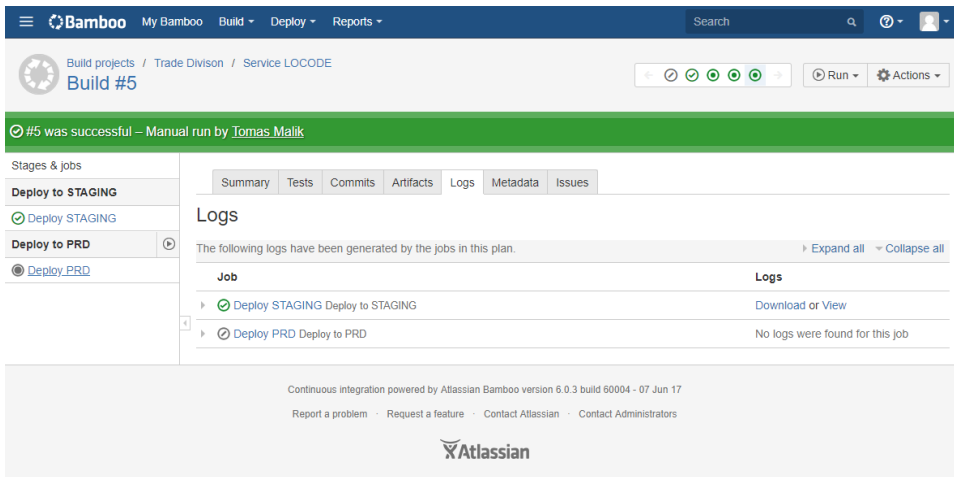
- a. in our example <https://service-qa.unece.org/trade/locode>
 - i. <https://service-qa.unece.org/trade/locode/af.htm>
 - ii. <https://service-qa.unece.org/trade/locode/ax.htm>
 - iii. <https://service-qa.unece.org/trade/locode/ae.htm>

United Nations
Code for Trade and Transport Locations (UN/LOCODE)
(AE) UNITED ARAB EMIRATES

c. And in it's Source

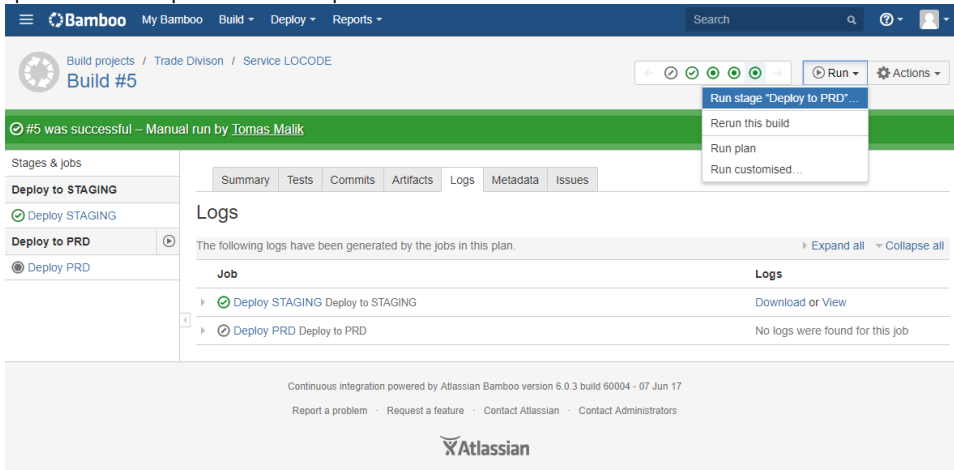
i.

1. Deploy to production - run option 1 from the left menu



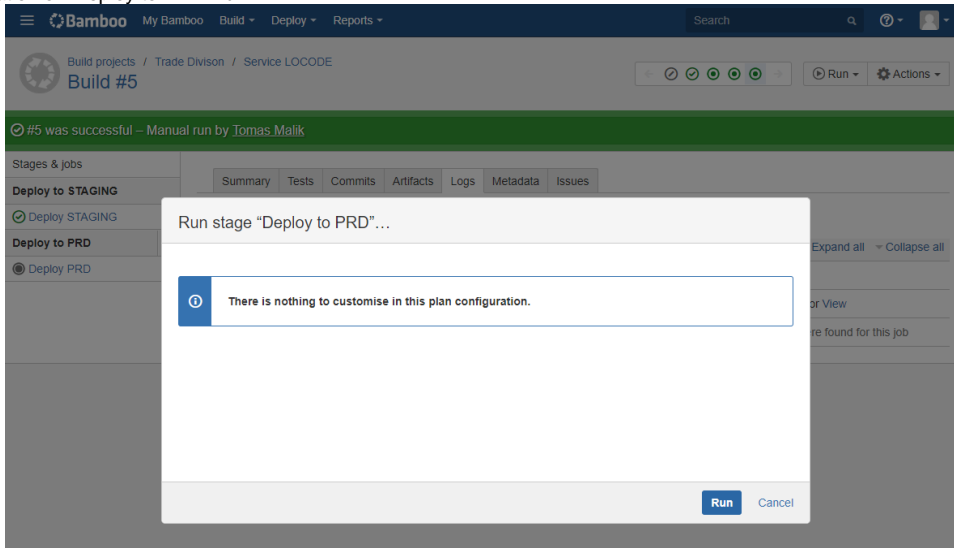
a.

2. Deploy to production - run option 2 from the top menu



a.

3. Confirmation of "Deploy to PRD" run



a.

4. Deploy to production - running

Bamboo My Bamboo Build Deploy Reports Search

Build projects / Trade Division / Service LOCODE
Build #5

#5 is building – 2 secs remaining – Manual run from the stage: Deploy to PRD by Tomas.Malik

Stages & jobs

Deploy to STAGING

Deploy STAGING

Deploy to PRD

Deploy PRD

Summary Commits Artifacts Logs Issues

Build result summary

Details

Started 03 Jul 2018, 2:58:19 PM – 6 seconds ago

Labels None

Revision 7524bb23...

Write a comment...

Live activity log for [Deploy STAGING]

Job Deploy STAGING has completed

Continuous integration powered by Atlassian Bamboo version 6.0.3 build 60004 - 07 Jun 17

Report a problem · Request a feature · Contact Atlassian · Contact Administrators

Atlassian

- a.
5. Deploy to production - completed

Bamboo My Bamboo Build Deploy Reports Search

Build projects / Trade Division / Service LOCODE
Build #5

#5 was successful – Manual run from the stage: Deploy to PRD by Tomas.Malik

Stages & jobs

Deploy to STAGING

Deploy STAGING

Deploy to PRD

Deploy PRD

Summary Tests Commits Artifacts Logs Metadata Issues

Build result summary

Details

Completed 03 Jul 2018, 2:58:45 PM – 14 seconds ago

Duration 48 seconds

Labels None

Revision 7524bb23...

Successful since #2 (2 weeks before)

Write a comment...

Continuous integration powered by Atlassian Bamboo version 6.0.3 build 60004 - 07 Jun 17

Report a problem · Request a feature · Contact Atlassian · Contact Administrators

Atlassian

- a.
6. Changes appear on Production (service.unece.org) in pages

United Nations
Code for Trade and Transport Locations (UN/LOCODE)

(AE) UNITED ARAB EMIRATES

Ch	LOCODE	Name	NameWoDiacritics	SubDiv	Function	Status	Date	IATA	Coordinates	Remarks
AE	ABU	Abu al Bukhoosh	Abu al Bukhoosh		1-----	RL	0307		2529N 05308E	
AE	AUH	Abu Dhabi	Abu Dhabi	AZ	1-345---	AI	1101		2428N 05422E	
AE	AMU	Abu Musa	Abu Musa		1-----	RL	0201		2552N 05501E	
AE	ARP	Ahmed Bin Rashid Port	Ahmed Bin Rashid Port	AZ	1-----	RL	1407		2532N 05533E	
AE	AJM	Ajman	Ajman		1-3-----	RL	0103	QAJ		
AE	AAN	Al Ain	Al Ain		---4----	AI	9601			
AE	ALB	Al Barsha	Al Barsha	DU	--3-----	RL	1701		2506N 05511E	
AE	DHF	Al Dhafra	Al Dhafra		--34----	AI	0507		2414N 05432E	
AE	FJR	Al Fujairah	Al Fujairah	FU	1-4-----	AI	0212		2507N 05620E	
AE	HAM	Al Hamriyah	Al Hamriyah		--3-----	RL	0212		2529N 05530E	
AE	JAZ	Al Jazeera Port	Al Jazeera Port	RK	1-----	RL	1307		2543N 05548E	
AE	AJP	Al Jeer Port	Al Jeer Port	RK	1-3-----	RL	1307		2602N 05603E	
AE	DBI	Al Mafraq	Al Mafraq	AZ	--3-----	RL	1601		2418N 05436E	
AE	ALQ	Al Quoz	Al Quoz	DU	--3-----	RL	1701		2507N 05513E	
AE	ALS	Al Sufouh	Al Sufouh	DU	--3-----	RL	1701		2507N 05511E	
AE	RUW	Ar Ruwais	Ar Ruwais		1-----	RL	0212		2407N 05244E	
AE	ARZ	Arzanah Island	Arzanah Island		0-----	RQ	9506			
AE	DAS	Das Island	Das Island		1-----	RL	0003			
AE	DER	Deira	Deira	DU	--3-----	RL	1401		2516N 05519E	
AE	DBP	Dibba	Dibba	SH	1-3-----	RL	0401		2537N 05616E	
AE	DXB	Dubai	Dubai	DU	1-345---	AI	0407		2515N 05516E	
AE	DWC	Dubai World Central Apt	Dubai World Central Apt		--34----	AI	1007		2453N 05510E	
AE	END	Esnad	Esnad	AZ	1-----	RQ	0901		2419N 05427E	
AE	FAT	Fateh Terminal	Fateh Terminal		1-----	QQ	8103			
AE	FRP	Free Port	Free Port	DU	1-----	RL	1407		2515N 05515E	
AE	HAB	Habshan	Habshan	AZ	--3-----	RL	1207		2356N 05338E	
+	HIL	Hail	Hail	AZ	-----7-	RL	1801		3500N 03330E	
AE	HZP	Hamriya Free Zone Port	Hamriya Free Zone Port	DU	1-----	RL	1407		2518N 05519E	
AE	HAT	Hatta	Hatta	DU	--3-----	RL	1707		2447N 05607E	
AE	HTL	Hulaylah Terminal	Hulaylah Terminal		1-----	RQ	0901		2559N 05556E	

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7. Changes appear on Production (service.unece.org) - in it's sources

(AE) UNITED ARAB EMIRATES

CS	LOCODE	Name	NameWoDiacritics	SubDis	Function	Status	Date	IATA	Coordinates	Remarks
	AE ABU	Abu al Bukhoosh	Abu al Bukhoosh	1	RL	0307		2529N 05308E	

Elements
 Console
 Sources
 Network
 Performance
 Memory
 Application
 Security
 Audits
 AdBlock

Styles
 Computed
 Event Listeners
 DOM Breakpoints

```

<html class="gr" service_unece_org">
<head>
<title>UN/LOCODE (AE) - UNITED ARAB EMIRATES</title>
<!-- Created by Claudio Meza, 27/02/2019 -->
<!--<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">-->
<!--<meta http-equiv="Content-Type" content="text/html; charset=windows-1252">-->
<meta http-equiv="Content-Type" content="text/html; charset=ISO-LATIN-1">
<meta http-equiv="Content-Script-Type" content="text/VBScript">
<!--<meta http-equiv="Content-Language" content="en-US">-->
<meta name="author" content="Claudio Meza">
<meta name="description" content="United Nations, Economic Commission for Europe (UNECE), is one of the regional commissions of the United Nations.">
<meta name="keywords" content="United Nations, Economic Commission for Europe, ECE, UNECE, UN/ECE, UN/LOCODE, UN/LOCODE, LOCODE, Locations">
<meta name="rating" content="General">
<meta name="robots" content="INDEX,FOLLOW">
<meta name="distribution" content="global">
<meta name="resource-type" content="document">
</head>

```

- a.
8. Link files to Production
 - a. in our example <https://service.unece.org/trade/locode/>*
 - b. <https://service.unece.org/trade/locode/af.htm>
 - c. <https://service.unece.org/trade/locode/ax.htm>
 - d. <https://service.unece.org/trade/locode/ae.htm>
 - e. Etc.