# GIT ANNEXING

DXC DevOps

**Version 0.1**

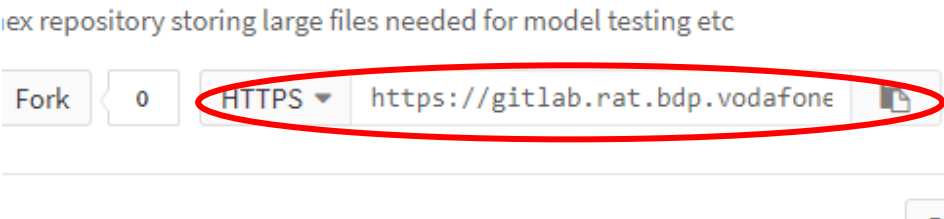**Michael Carey**
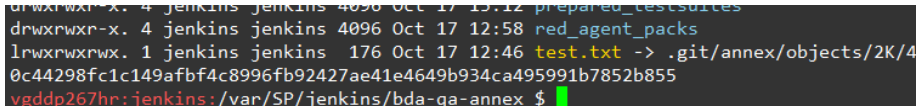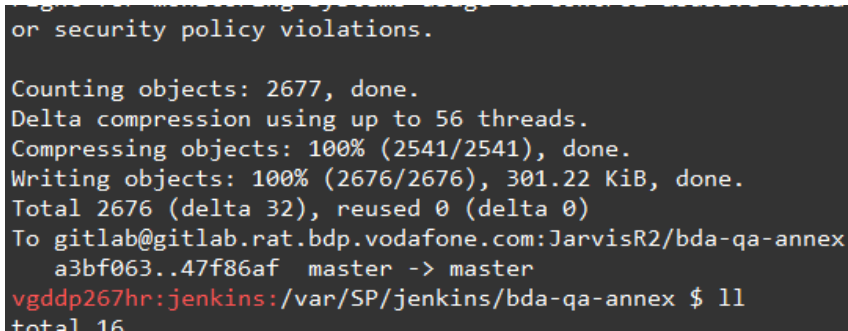
**2017**

| Issued | Amend By | Version | Revision Comments |
|--------|----------|---------|-------------------|
| 17/10/2017 | Michael Carey | 0.1 | Created |

## PREREQUISITES

Git account

## CREATING AND PUSHING TO GIT ANNEX

| | |
|---|---|
| 1. | The first thing that should be done is to create or take the URL of an existing git repository. *Note: the area circled red highlights where this can be found.*  |
| 2. | Create a new directory where you want to clone this new or existing git repo, this will be known as your master.<br><br>`mkdir <name>` |
| 3. | Clone an existing or new git repo in newly created directory.<br><br>`git clone gitlab@gitlab.url`<br><br>for example:<br><br>`git clone https://gitlab.rat.bdp.vodafone.com/JarvisR2/bda-qa-annex.git` |
| 4. | Initiate the annexing capabilities within your new master directory and give it a meaningful name.<br><br>`git annex init <name>` |
| 5. | Copy any files you want to into your master directory. |

| | |
|---|---|
| 6. | Add the desired files you want to add to the git annex repo.<br><br>**git annex add <example file> <example file>**<br><br>or you can<br><br>**git annex add -a**<br><br>This highlights all file in the master directory as wanting to be annexed. |
| 7. | Don't forget to commit and add a message to it.  Keep the message clear, concise and meaningful, everyone will see this on the git repository web interface. *Note: Make sure the message is in quotation ("message") marks as exampled below.*<br><br>**git commit –m "<example message>"** |
| 8. | You can check that this has been done correctly by checking if the files have symlinks beside them in the master directory. *Note: See screen shot below for example.*<br><br>**ls -lh**<br><br>drwxrwxr-x. 4 jenkins jenkins 4096 Oct 17 15:12 prepared_testsuites<br>drwxrwxr-x. 4 jenkins jenkins 4096 Oct 17 12:58 red_agent_packs<br>lrwxrwxrwx. 1 jenkins jenkins  176 Oct 17 12:46 test.txt -> .git/annex/objects/2K/4<br>0c44298fc1c149afbf4c8996fb92427ae41e4649b934ca495991b7852b855<br>vgddp267hr:jenkins:/var/SP/jenkins/bda-qa-annex $ |
| 9. | Now you need to push the master directory to git, so it can be pulled to other directories.<br><br>**git push origin master** |
| 10. | You will see your window display some uploading information and once complete it will trip to the next command line prompt. *Note: See below for example*<br><br>or security policy violations.<br><br>Counting objects: 2677, done.<br>Delta compression using up to 56 threads.<br>Compressing objects: 100% (2541/2541), done.<br>Writing objects: 100% (2676/2676), 301.22 KiB, done.<br>Total 2676 (delta 32), reused 0 (delta 0)<br>To gitlab@gitlab.rat.bdp.vodafone.com:JarvisR2/bda-qa-annex<br>   a3bf063..47f86af  master -> master<br>vgddp267hr:jenkins:/var/SP/jenkins/bda-qa-annex $ ll<br>total 16 |

| 11. | Your files have now been annexed on your new or existing git repo, you can view the files online in the git UI, however instead of being able to see the contents of files in the git UI editor, you will the see the same symlinks as your command line prompt window showed you before. |
|---|---|

## Pulling the annexed repo from git

| 1. | Create a new directory you want to pull the annexed files too; this will be known as your secondary repo.<br><br>**mkdir <name>** |
|---|---|
| 2. | Pull the annexed master git repo to the secondary repo directory.<br><br>**git pull gitlab@gitlab.url**<br><br>for example<br><br>**git pull https://gitlab.rat.bdp.vodafone.com/JarvisR2/bda-qa-annex.git** |
| 3. | You should now be able to see all the annex files in your secondary repo. The files should appear and have the symlinks beside them as discussed and displayed throughout this walkthrough. |