

How to use Source Control with SQL Server Management Studio

Prerequisite software

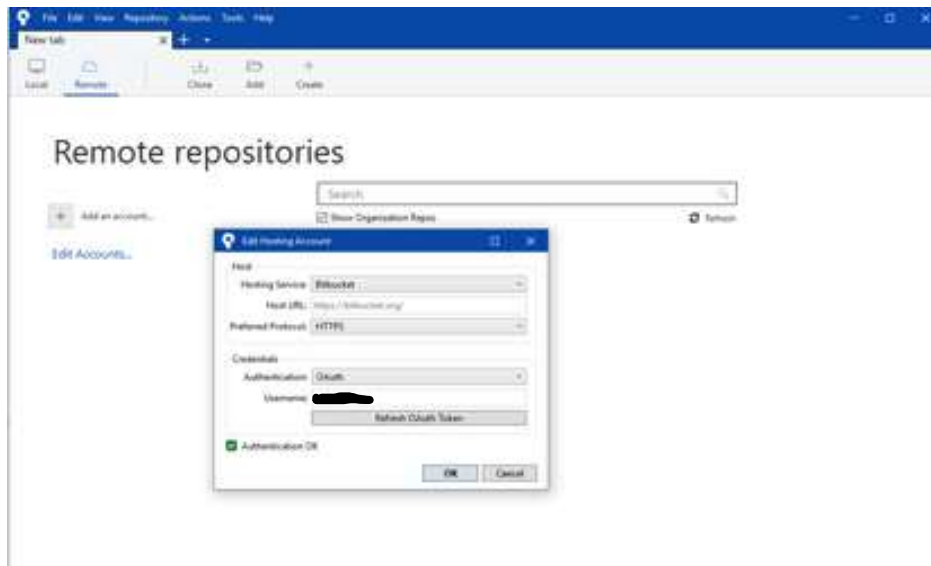
- SSMS
- RedGate Source Control
- SourceTree

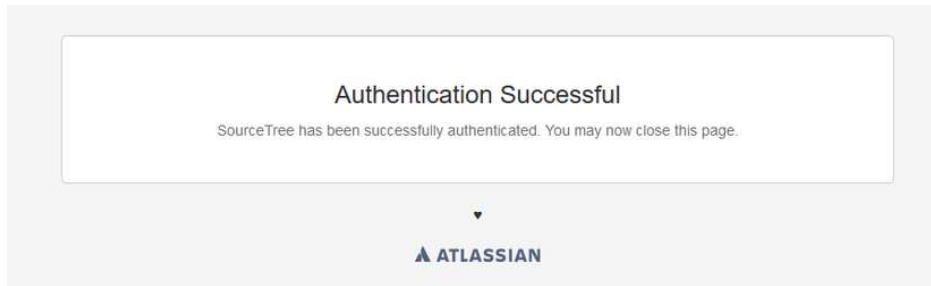
We currently use Bitbucket as our SQL Server repo for BI.

You should have been given a Bitbucket account and have that activated.

Open **SourceTree**

Edit Remote Repo and add your credentials. This will open up a secondary window in your browser asking for your permission for Atlassian to get details:





At which point it should pick up the Repo you have access to.

Now click **Clone**:



If you loose the page just go to **Clone** and click the **Remote Account** hyperlink

It should populate Sourcetree . Ensure that you change the destination path if necessary and give the folder name as the Repo name (in this case bi-db-testdbforbb)



Clone

Cloning is even easier if you set up a remote account.

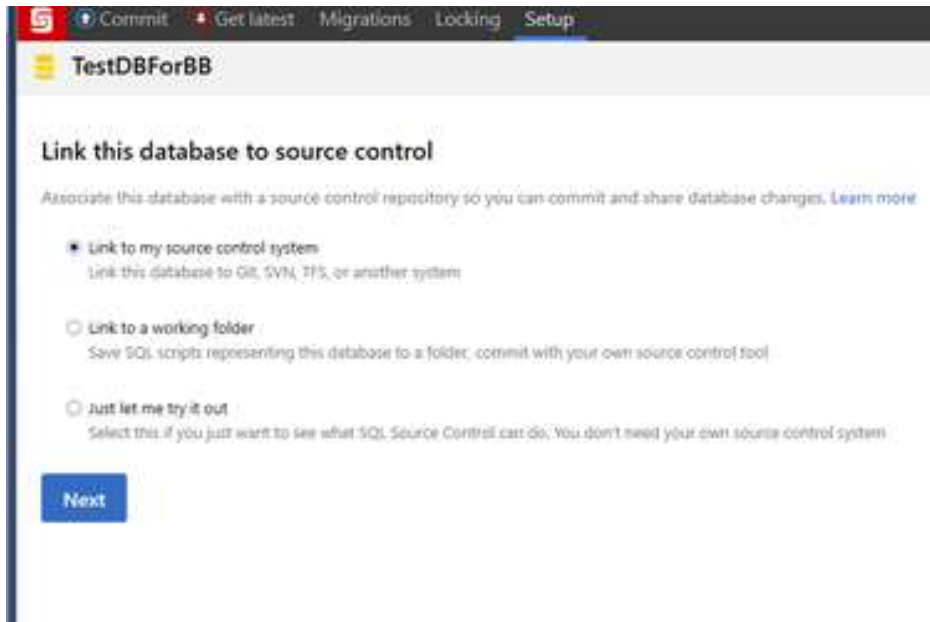
Repository Type: This is a Git repository

Local Folder:

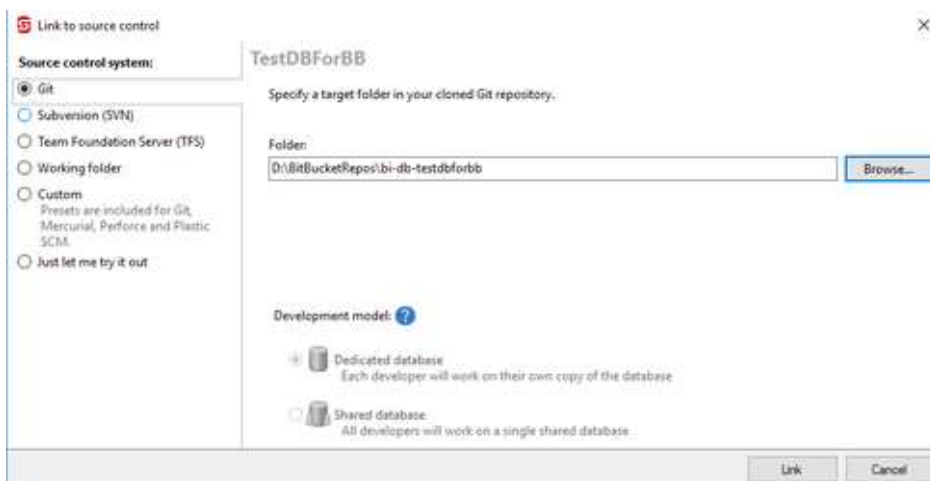
Advanced Options

You'll need to link to any other repos

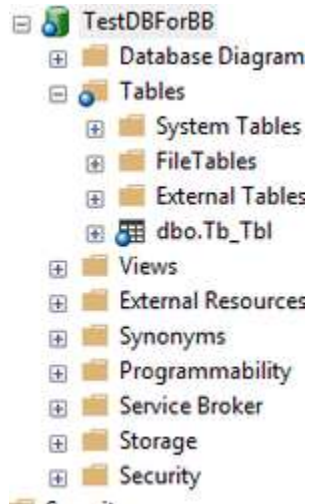
Now go into your local instance of SSMS and select the desired DB. Open the **Redgate Source Control** and go to **Setup**:



Point to the correct folder:



The Db node will then show a green ball (everything is the same as Master Repo) or a blue ball (you have differences to Master Repo)



Now you're set up.

Using Source Control

Open your Jira task and change the task to **Ideation/In Progress**

Now click the + **Click Branch** hyperlink under **Development**



This will then take you through to Bit Bucket and pre-populate the fields with all the required data. Click **Create**:


Create branch

Repository
[redacted] bi-db-testdbforbb

Type
Feature

From branch
master

Branch name
feature/BI-88-new-test-for-bi-sourcetree-integra



Create Cancel

Now check it out to your machine, by clicking the **Check out in SourceTree** button:

[redacted] / BI-DB-TestDBForBB / Branches:
feature/BI-88-new-test-for-bi-sourcetree-integra



Check out your branch

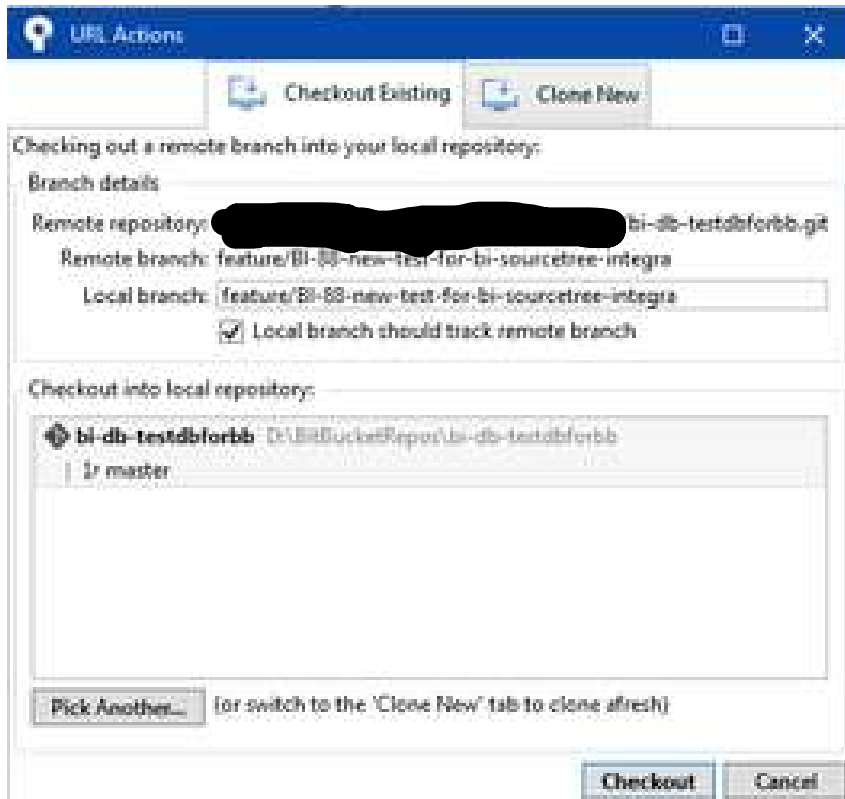
This branch does not contain any changes — check it out on your local machine to do some work.

[Check out in Sourcetree](#)

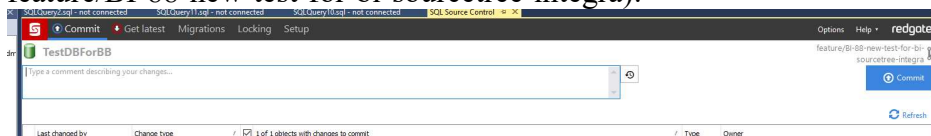
You can also use this command to check out your branch:

```
git fetch && git checkout feature/BI-88-new-test-for-bi-sourcetree-integra
```

Now Check the branch out:

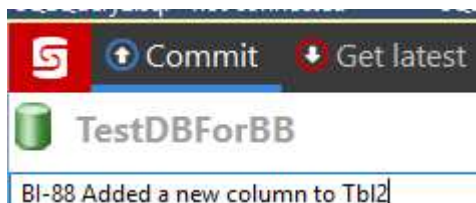


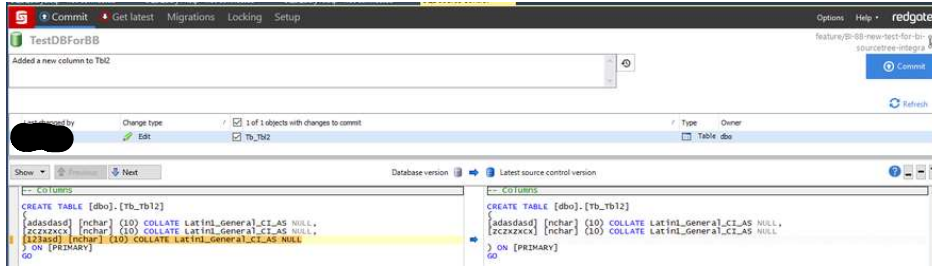
Go back to SSMS and click the **Refresh** button on the right hand side. You will see that it now updates the branch to the latest checked out branch (in this case feature/BI-88-new-test-for-bi-sourcetree-integra):



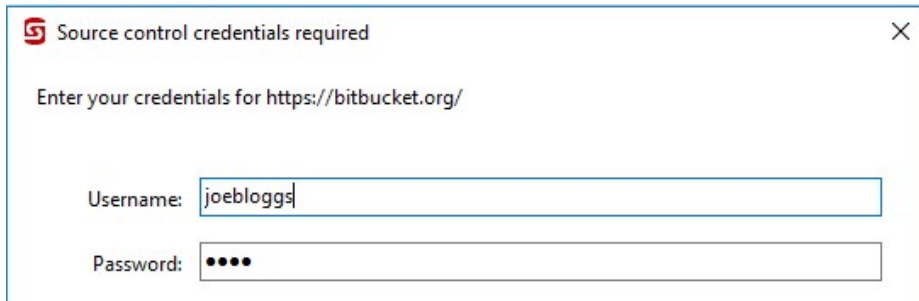
Push to Source Control

Select your object to push up, ensure that you include some notes , starting with the Jira ticket number:





First time it may ask for credentials:



You can **Commit** using the RedGate Push function:



Now go your ticket in Jira and click the node next to **Development**:



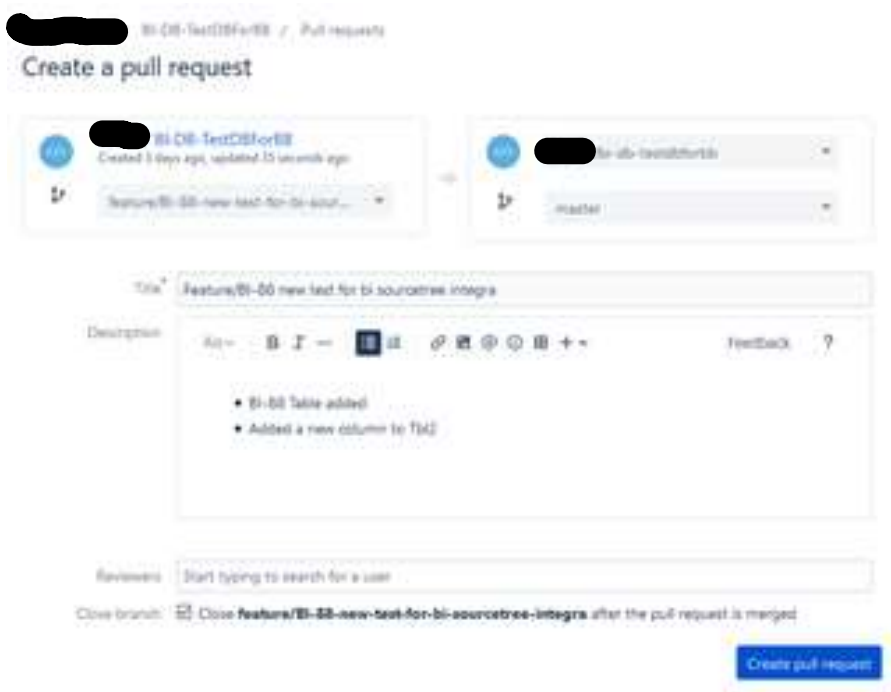
Which will show:

BI-88: 1 branch

Repository	Branch	Last commit	Last modified	Pull request	Action
 BI-DB-TestDBForBB	 feature/BI-88-new-test-for-bi-sourcetree-integra	09fa39c	2 days ago		Create pull request

It will then show a Pull request window

I would suggest ticking the **Close Branch** box to keep things tidy . Then click the **Create Pull Request** button:



You should now get a confirmation window



BI-DB-TestDBForB8 / Pull requests

Feature/BI-B8 new test for bi sourcetree integra

#5 [OPEN](#) [Feature/BI-B8-new-test-5](#) → [master](#)

[Merge](#) [Edit](#) [Decline](#) [Approve](#) 0

[Overview](#) [Commits](#) [Activity](#)

Author [Nick Manning](#)

[Stop watching](#)

Reviews [No reviewers](#)

Description

- BI-B8 Table added
- Added a new column to Tb2

Comments (0)



What would you like to say?

Files changed (1)

[+17](#) [-5](#) [Tables/dba Tb_Tb2.sql](#)

[Tables/dba Tb_Tb2.sql](#) **ADDED**

[Side-by-side diff](#) [View file](#) [Comment](#) [...](#)

```
1 +CREATE TABLE [dba].[Tb_Tb2]
2 +{
3 +[adadadad] [char] (10) COLLATE Latin1_General_CI_AS NULL,
4 +[xxxxxxxx] [char] (10) COLLATE Latin1_General_CI_AS NULL,
5 +[1234567] [char] (10) COLLATE Latin1_General_CI_AS NULL
6 +} ON (PRIMARY)
7 +GO
```