TortoiseSVN Short Tutorial

This tutorial presents some basic steps for using SVN and accessing your assigned Subversion account. To get familiar with Apache Subversion see <u>http://en.wikipedia.org/wiki/Apache Subversion</u>

1. Getting and Installing TortoiseSVN

1. Download the last version of TortoiseSVN from this link:

http://tortoisesvn.net/downloads.html

2. Choose the 32-bit or 64-bit version depending on your operating system (most of you will have a 32 bit OS version, either MS Windows XP or MS Windows 7). Fig. 1 shows a snapshot of a part of the download page for TortoiseSVN.

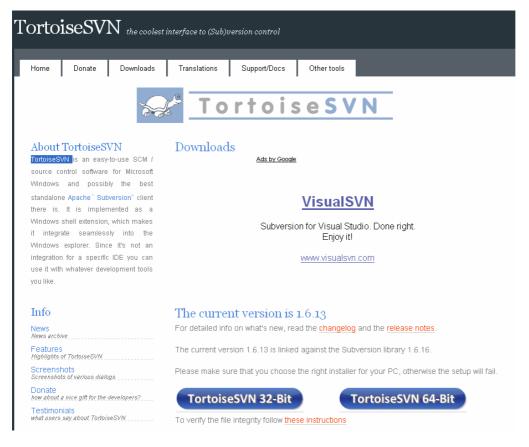


Figure 1. A snapshot of a part of the download page for TortoiseSVN

During the installation process you may rely on the default settings.

2. Using TortoiseSVN

Create a SVN Repository

- 1. Create a folder.
- 2. Right-click the newly created folder \rightarrow SVN check out (cf. Fig. 2)

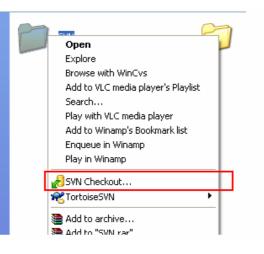


Figure 2. Choosing SVN checkout

- 3. In the "**URL of repository**" field, copy the one of the below URLs:
 - To access repository from outside T.U. Cluj-Napoca network (e.g. from home or hostel):

https://os.obs.utcluj.ro:22443/<user>

• To access repository from INSIDE T.U. Cluj-Napoca network (e.g. from the laboratories):

https://10.158.0.45:443/<user>

Note: You should replace <user> with your given username. See Figure 3. In Fig. 3 the placeholder <user> is symbolized by USERNAME.

4. Press OK

a	Checkout 🔀
ſ	Repository URL of repository:
	https://os.obs.utcluj.ro:22443/USERNAME
	Checkout directory: C:\Documents and Settings',Desktop\DSA SVN\SVN\USERNAME
	Checkout Depth
	Fully recursive
	Omit e <u>x</u> ternals
ſ	Revision
	• HEAD revision
	Revision Show log
	OK Cancel Help

Figure 3. Checking out a repository.

An authentication dialog will appear (cf. Fig. 4) : fill in your assigned username and password

Authentication	
<https: os.obs.utcluj<="" td=""><td>.ro:22443> Authorization for u4_2</td></https:>	.ro:22443> Authorization for u4_2
Requests a u	isername and a password
<u>U</u> sername:	
Password:	
-	
	OK Cancel

Figure 4. Authentication dialog.

After Check out, you should have the content from server stored in your local folder.

Update

An update operation is used for getting a repository version of your work from a SVN server down to your computer. To perform an Update:

5. Right click in our folder \rightarrow SVN Update (see Fig.)

The local copy will be updated from the repository.

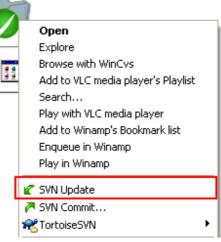


Figure 5. Updating a local copy

ommand ompleted	Path Update At revision: 0	Mime type	
ompiecea	Acrevision; U		
			< 7
Bytes tra	Insferred in 0 mi	nute(s) and 21 second(s)	

Note: If a red line is shown, then there is a conflict between the repository version and the local copy. Conflicts must be solved with great attention, as they may cause undesired changes.

Commit

Commit is used for storing your local copy to the SVN repository. To achieve this:

1. Right click \rightarrow SVN Commit. A windows similar to the one shown in Fig. pops up.

Commit - C:\Documents	and Settings\	We	sktop\DSA SVN	SVN	
ommit to: https://os.obs.utcluj.ro:22443 Message:					
Recent messages					
Changes made (double-click on	VERMINE ST	112 2 2 2 1		4 A 1]
Path	Extension	Text status	Property status	LOCK	1 100
Assessment_1.c	۰C	non-versi			G
Show unversioned files					0 files selected, 1 files total
Select / deselect <u>a</u> ll					
Show externals from differe	ent repositories				
Keep locks					
Keep locks Keep changelists					Cancel Help

Figure 6. A commit window.

Notes:

- In the *Message* area, you have to write a description of, e.g., the changes made relative to the previous version, or, in general, a message which helps to identify that version with ease..
- In the *Changes Made* area, you choose what you want to commit by hand. It just lists all changes (and sometimes it does not include all of them).

3. Using Codeblocks with TortoiseSVN

In order to use Codeblocks with TortoiseSVN, you should take the following steps:

1. Create a new folder on your Desktop (e.g. use right-click->New folder, see Fig. 7).

T.U. Cluj-Napoca, C.S. Dept.



Figure 7. Creating a folder on the Desktop

2. Rename your new folder to YourNames (e.g MariusJoldos - see Fig. 8)



Figure 8. Renaming your newly created folder

3. Do a *checkout* on your repository using the supplied authentication credentials as shown in Fig. 9 and Fig. 10



Figure 9. Selecting SVN Checkout

T.U. Cluj-Napoca, C.S. Dept.

https://10.158.0.45/USERNAME					
Checkout directory:	· · · · · · · · · · · · · · · · · · ·				
D:\Documents and Se	ttings\jim.ATELIERE1.000\Desktop\MariusJoldos				
chard and Darable					
Checkout Depth					
Fully recursive	×				
Omit externals					
Revision					
• HEAD revision					
Š					
Revision	Show log				

Figure 10. Checking out repository

A window covered by an authentication popup appeara. Type your credentials – see Fig. 11. You may choose to save authentication.

Action	Path	Authentication 🛛 🔀	Mime type
Command	Checkout from h	<http: 10.158.0.45:80=""> Authorization for u2_22 Requests a username and a password</http:>	luded
		Username:	
		Save authentication OK Cancel	OK Cancel

Figure 11. Supplying authentication credentials on SVN checkout.

On success, a window similar to the one of Fig. 12 appears.

T.U. Cluj-Napoca, C.S. Dept.

æ	u2_22 -	Checkout - TortoiseSVN Finished!	
	Action	Path	Mime type
	Command Completed	Checkout from http://10.158.0.45/u2_22, revision HEAD, Fully recursive, Externals included At revision: 0	
44	48 Bytes tra	nsferred in 3 minute(s) and 36 second(s)	Cancel

Figure 12. Finishing checkout.

4. Run Codeblocks and create your project INSIDE the SVN repository working copy on your Desktop (see Fig. 13 and 14).

Browse For Folder	? 🗙
Please select the folder to create your project in	
🗉 🚞 javaTut	~
🗀 Java-UML	
🗄 🛅 kits	
MariusJoldos	
🛅 Music coh 🛇	
🗉 🚞 PrePlotFreq	=
🕀 🧰 PrepPlot	
🗷 🛅 TreeTravA3	~
Folder: MariusJoldos	
Make New Folder OK Ca	ancel

Figure 13. New Codeblocks project inside repository.

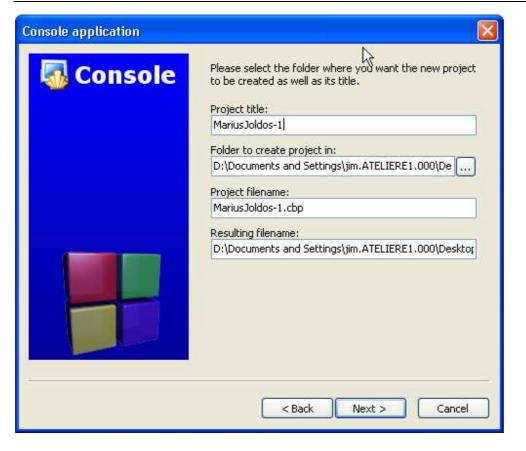


Figure 14. Complete project data for Codeblocks. Note that project name is YourNames-1 as it will hold a solution for Assignment 1.

- 5. Do your work with Codeblocks. Save your work and leave Codeblocks.
- 6. Commit the changes to the server. Do this with right-click on the folder and selecting "SVN Commit" (see Fig. 15). In a window similar to Fig. 16 select what you desire to submit (e.g. use "Select all" checkbox). Press OK.

A window shows that you are done (Fig. 17).

Figure 15. Choosing Commit	Open Explore [Ultra Defragmenter] Command Prompt Search Add to Winamp's Bookmark list Enqueue in Winamp Play in Winamp 7-Zip ► Sharing and Security
	🕐 SVN Update
	🔁 SVN 📉 mmit
	TortoiseSVN
	🔇 Scan MariusJoldos
	9/11

iit to: //10.158.0.45/u2_22					Figure 16. Selecting commit.	; wl
Recent messages						
nges made (double-click on file for diff):						
nges made (double-click on file for diff):	Extension	Text status	Proper	ty status		
	Extension	Text status	Proper	ty status		
²ath ☑ MariusJoldos-1	Extension		Proper non-ver			
Yath 2		non-versioned	2	rsioned		
Path CommariusJoldos-1 CommariusJoldos-1/main.c. MariusJoldos-1/MariusJoldos-1.cbp	.c	non-versioned non-versioned	non-ver	rsioned		
Path CommariusJoldos-1 CommariusJoldos-1/main.c CommariusJoldos-1/MariusJoldos-1.cbp	.c .cbp	non-versioned non-versioned non-versioned	non-ver non-ver	rsioned		
Path Cath Cath C	.c .cbp	non-versioned non-versioned non-versioned non-versioned	non-vei non-vei non-vei	rsioned rsioned rsioned		
Path Comparing Show unversioned files Path	.c .cbp	non-versioned non-versioned non-versioned non-versioned	non-vei non-vei non-vei	rsioned rsioned rsioned		
Path Cath Cath C	.c .cbp	non-versioned non-versioned non-versioned non-versioned	non-vei non-vei non-vei	rsioned rsioned rsioned		
Path Cath Cath C	.c .cbp	non-versioned non-versioned non-versioned non-versioned	non-vei non-vei non-vei	rsioned rsioned rsioned		

¢	r MariusJ	oldos - (Commit - TortoiseSVN Finished!	
8	Action	Path	Mime type	
	Command Finished!	Commit		B
				OK Cancel

Figure 17. Commit done.

You may now check that your changes are on the server using a browser and the same URL.