Version Control With TortoiseHG (Mercurial) and Bitbucket The Initial Setup

- 1. Create Bitbucket Account
- 2. Log on to https://bitbucket.org



- 3. Each member in the team will need an individual account
- 4. For team, create a team account as follows and add the team members

gn up for fr	ee	
Account type	 Individual Team What's the difference? 	Individual vs team account All plans include:
Display name	TeamUHCL e.g., Atlassian Inc.	Unlimited repositories Unlimited public collaborators Unlimited disk space
Usemame*	teamuhcl e.g. atlassian	Teams include:
Email	xxxx@gmail.com	Create team-owned repositories Delegate administration Send email invitations
Password (again)*	••••••	Manage repository access via group:
d team memb	pers	

5. Create a team repository, enter the required details like the name, type and language Choose Mercurial for Repository Type.



- 6. Download and install TortoiseHg from http://tortoisehg.bitbucket.org/, if not already present.
- 7. Create the initial application set up for the team. Here a sample asp.net web application is shown

8. Choose an appropriate folder for the application and create the project in this folder.

Visual Studio 2010 Ultim	Valle New Project				(9 II)
	Recent Templates		NET Framework 4 + Sort by Default +		Search Installed Templates
Connect To Tam Foundation Server Inter Project Open Project Recent Projects Westbackplotstonel Westbackplotstonel Brokes	Installed Template Visual C4 Windows Wité Office Cloud Reporting Swarebeet Swarebeet Swarefight Test Worlfow Ofthe Physics Ofthe Physics Ofthe Physics Ofthe Physics Test Physics Ofthe Proplate Cloud Physics Ofthe Physics Test Physics Ofthe Proplate Ofthe Proplate Ofthe Proplate Ofthe Proplate Ofthe Proplate Ofthe Physics Ofthe Physics O	r pes ts	ASPART Web Application ASPART INFC 2 Web Application ASPART INFC 2 Web Application ASPART Energy Web Application ASPART Energy Web Application ASPART Opnumic Data Entries Web Application ASPART Opnumic Data Entries Web Application ASPART ANX Server Control ASPART ANX Server Control Entender ASPART ANX Server Control Entender ASPART ANX Server Control Entender	Visual C# Visual C# Visual C# Visual C# Visual C# Visual C# Visual C# Visual C#	Type: Visual CP Aprigact for crating an application with a Web user interface
	Name Location Solution name	TestWebAppSc C/USerSikhalat TestWebAppSc	ation Nam/Documents/Rishtar/DomeBitSucket/SharedReps) Itilion		Brease 2 Create directory for solution Add to source control OK Cenced

- 9. After the project is created, browse to the folder where it is created.
- 10. Right click ->TortoiseHg->Create Repository Here

Name	*	Date modified	Туре	Size
Job Sharec ^{ra}	Open Open in new window Add to Winamp's Bookm. Enqueue in Winamp Play in Winamp 7-Zip Share with Share with	ark list	File folder File folder	
	 TortoiseHg Scan for threats Shared Folder Synchroniz Restore previous versions Burn with Nero Combine supported files 	ation	Clone Create Reposito Explorer Extensio Global Settings Update Icons About Tortoise	ry Here on Settings Hg
	Include in library Send to Cut Copy Create shortcut Delete Rename Properties	۰ ۱		

- 11. Open this folder Right click ->Hg Workbench. Tortoise Hg workbench opens. Select the current repository and click on commit
- 12. As this is the initial commit, generally all files are selected

Workbench		
Help	construction of the second	
K Gra Re Branct Description Aut	har Age Tens	
O default * Working Directory * Risk	as Kulathiar now	
🗐 ### filter text ### 🛛 🦧 - 🔾	Branch: default Copy message + Options () Parent: -1 (00000000000)	Commit
Interview and a second se		
		8 ×
alfkan (Doument) Wahta Dendi Buokt (Duredi Ropo J / Item/d (Samplehred spo Item/d (Samplehred spo Itel (Socialis 5 2013) alfkan (Doument) (Jahlat Dendi Buokt (Duredi Ropo J on Apr 15 09:31:36 2013)	unh https://bibudet.org/hamuhd/samplenharedropo	
	Workbend He Cong, Re, Ranch Description Cong, Re, Ranch Description Co	Water We water

Enter an appropriate comment and commit

SharedRepo - TortoiseHg	Workbench	A REAL PROPERTY OF A REAL PROPER	
Ele Yew Bepository E	Help		
() + + Q	N=∏ ^^ ^		
Repository Registry & X	Grav Rev Branch Description Au	ther Age Tags	
Abet_Test_Code	O te default & Working Directory & Ris to default default tip Initial Projec Ris	vita Khulathkar now ita Khulathkar now tip	
1	🔄 ### filter text ### 🔗 🗸 🗘	Branch: default Copy message + Options 🚳	Commit
	Filename Tune Size (KR)	Parent: 0 (e863b399d4b5) Initial Project Commit	
		< m	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
			-
Övenelon			Ax
TestWebApplcation /TestWebApp TestWebApplcation /TestWebApp TestWebApplcation /TestWebApp TestWebApplcation /TestWebApp TestWebApplcation /TestWebApp TestWebApplcation /TestWebApp	ilcation (Scripts) (query-1, 4, 1, min. ys lication (Ste. Master dication (Ste. Master, cs ilcation (Style, Rister, designer, cs ilcation (Style, Rister, cs ilcation (Style) (Stel, cse ilcation (Test) (Stel, cse ilcation (Stel, cse)) (Stel, cse ilcation (Stel, cse)) (Stel		ŕ
TestWebApplication/TestWebApp TestWebApplication/TestWebApp TestWebApplication/TestWebApp TestWebApplication/TestWebApp Committed chargeset 0:e86/3039 (command completed successfully SharedRopo%	ikator/TeXViebAppicator.cgroj.user ikator/Wieb.Abeus.cmfg ikator/Wieb.Abeus.cmfg ikator/Wieb.Abeus.cmfg ikator/Wieb.cmfg ikator/Wieb.Cmfg ikator/Wieb.2015 ikat	rendinput.cache	

13. Now click on Sync

Remote repository options are shown

Choose https and enter the online Bitbucket repository path here and give a suitable name to this path.

14. Push changes to the online repository , username and password will be prompted. Only the users added to this team project are allowed

A SharedRepo - TortoiseHg Workbeach	
Ele Den Separatory Help	
Q + + 9, N = E [*] 5 ° 5 ° 5 ≥ √ 7 0 9,	
Repository Registry & K Gray Re Branch Description Author Age Tags	
 ▲ defluit O defluit ★ Working Directory ★ Rishita Khalethiar now SharedRepo 	
A COLOR OF	
Remota Repository: https://bitbucket.org/teamuhcl/samplesharedrepo	
Intigs is biblioket.org : / teemuhcusamplesharedirepo	let let
Pattern Repository Settings	
Akes URL	
Output Log	s :
ShareShipo16	

. SharedRepo - TortoiseHg	Workberch .	×
File View Bepavitury	Ber	
0 + + 9		
Repository Registry	Putking to http://bituicket.org/teamulo//campletharedireon	×
🚛 default	Gu Be Brank Developing Author day Terr	
Abet_Test_Code	O default * Working Directory * Rishita Khalathkar now	
sy sharedhepo		
	🕈 🚰 💭 🚽 🚰 🚫 Post Pulk None Options 📄 Target: (rev. 1 (0000000000)	
	Remote Repository: http://bitbucket.org/teamuhcl/samplesharedrepo	
	https 💌 🏠 bitbucket.org 👔 / teamuhcl/samplesharedrepo	
	Paths in Repository Settings:	
	Alias URL URL URL URL	
	SharedRepo https://bitbucket.org/teamuhcl/samplesharedrepo User:	
	rkhalsthker	
	OK Cancel	
Output Log		e ×
% hgrepository C: Users (shall pushing to https://bitbucket.org.	stikar Documents (kisnis) Demolitibutet (SharesRepo push https://bitbudiet.org/teamuhd/sampletharedrepo - /eamuhd/sampletharedrepo	÷
http authorization required realm: Bitbucket.org HTTP		
Pushing to https://bithucket/	nm/heamuhrl/cameledbaredrenn	17
anning to maps//bitbocket	n 🖁 recent new data dia managementa data dia managementa dia management	

15. After, this has been successful; the commit can be seen on the Bitbucket repository page.

Updating the local repository without making any changes on your end

- 1. The user, who needs to clone this remote repository, creates a folder on his local machine. The local machine should have Tortoise Hg installed.
- 2. On the folder right click->Tortoise Hg -> Clone...

Name	_	Date modified	Ту	pe	Size
TestRepo	2 2 2 2 2	Open Open in new window Add to Winamp's Bookmark list Enqueue in Winamp Play in Winamp 7-Zip Share with Hg Workbench TottoiseHa	• •	fol	der
	•7 10 10 10 10 10 10 10 10 10 10 10 10 10	Scan for threats Shared Folder Synchronization Restore previous versions Burn with Nero Combine supported files in Acrobat	•		Create Repository Here Explorer Extension Settings Global Settings Update Icons About TortoiseHg
		Include in library Send to Cut Copy Create shortcut Delete Rename Properties	•		

3. Enter the source path as the online Bitbucket repository path. Destination is the current folder

and share the second	indesit i containente autoartenendi containen cost eleo	DIOWSE
Destination:	C:\Users\khalathkarr\Documents\Rishita\DemoBitbucket\TestRepo	Browse
Options		
Hg command: es	trepo C:\Users\khalathkarr\Documents\Rishita\DemoBitbucket\TestRep	0

4. Enter team password

ne TestRepo	Date modified 4/15/2013 8:54 AM	Type File folder	Size	
Clone - C:\Users\khalathkarr	\Documents\Rishita\DemoBitb	ucket\TestRepo		X
Destination: .	Password:	ancel	V E	Browse
Running Detail				Cancel

5. All the files from remote server will be now downloaded to the folder

Version Control With TortoiseHG (Mercurial) and Bitbucket Updating the repository after adding files/making changes

- 1. Once the files are downloaded from remote repository, changes can be made or new files can be added
- 2. Change files and save it.



- 3. Open the tortoise Hg workbench. Select the current repository.
- 4. Click commit. The modified files are displayed. Select the required files enter an appropriate comment and commit.



5. Now pull changes from remote repository

rkbench	And the second s			
elp				
N = 🗐 🕈 💕 🖬 d	i 🖕 🗸 🐼 🗋 🕵			
Pull from https://teamuhcl@bitbucket	.org/teamuhcl/samplesharedrepo completed			*
Gray Re Branch Description	Author Age Tags y 🖈 Rishita Khalathkar now			
🍥 0 default default 📴 Initial I	Yrojer Rishita Khalathkar 40 tip			
Remote R Put incoming changesets https Ditbucket.org	Post Pulk None Options Target branch Torm remote repository pt/samplesharedrepo Tormwhct/samplesharedrepo	c default		-
Paths in Repository Settings:		Related Paths:		
default https://teamuhci@	bitbucket.org/teamuhcl/samplesharedrepo	SharedRept	un. Cribers/Malathian/Documenti/Rohda/DamoBitbucket/SharedRepo https://bitbucket.org/teamuhcl/samplesharedRepo	
	dench de Def from http://teamuhol@bithuo.de Greg Re: Branc? Description O - defauit # Vioreing Directory 0 - defauit # Vioreing Directory Remote R - Put inscriming changests Http:// Defauit.ge Defauit https://teamuhol@ Alias UR, defauit https://teamuhol@	dench de de de de de de de de de de		

All the changes will be pulled.

Resolving conflicts

6. On this pulled version, merge changes with local and commit the appropriate one.

ne Resistere de 1	Creek	Per	Russh	Description	Author	A	Teas	
fault	orapin	hev	default	+ Washing Directory +	Pourse Bickits Khalashkaa	nye	iays	
Abet_Test_Code	1 o	1-	default	default tip Changes made to About ator	Robita Osalathicar	Aminutes	10	
SharedRepo	0 2	Update	default	default Changes to Default.aspx	Rishita Khalathkar	18 seconds	765	
UserRepo	8		default	Initial Project Commit	Rishita Khalathkar	47 minutes		
User2Repo	1	Visual dift	Contraction and					
		Diff to local						
		Browse at rev						
	1 2 1	Merge with local		thangeset: 2 (6eb106e0a97d) Changes n	nade to About aspx			
	TestWel	Tre	1300	Changes made to About.aspx				
	TestWel	Baahaasah	v/About.aspx					
	oj/Del A	DOOKMERK++	yReferencesInput.cache					
	0	Backout						
	Export	Export		🛨 🗄 🕸 🔮 🎯 TestWebApplicati	ion/TestWebApplication.suo			
			File or diffs not displayed: Fil	e is binary				
		Copy hash						
og								
prization required								
bucket.org HTTP								
m https://team.hd@b	itbucket.org/team	nuhci/isamplesharedrepo						
for changes								

Yiew Repository H	elp	2010			and the second				
5 🔶 🔶 🔍 🛽			· · · · · · ·	<u>A</u>					
ository Registry 🗗 🛪	Graph	Rev	Branch	Description	Author	Age	Tags		
default	0	1+	default	* Working Directory *	Rishita Khalathkar	now			
Abet_Test_Code	0		default	default tip Changes made to About astra	Richita Khalathka	8 minutes	tin		
SharedRepo	6	Update	default	default Changes to Default aspx	Rishita Khalathkar	18 seconds			
UserRepo	8		default	Initial Project Commit	Rishita Khalathkar	47 minutes			
9 User2Repo	14	Visual diff	a second s						
	9	Diff to local							
		Browse at rev							
	P 5 1	Merge with local		Changeset: 2 (6ebf86e8a97d) Changes m	ade to About.aspx				
	TestWel		1.suo	Changes made to About.aspx					
	TestWel	lag	About.aspx						
	bj/Del 🖂	Bookmark	vReferencesInput.cache						
		Backout							
				🚊 🖞 # 🕸 🚊 TestWebApplicatio	n/TestWebApplication.suo				
		export ,		File or diffs not displayed: File	: is binary				_
		Copy hash							
				24					
ut Log									
ithorization required Bithucket.org HTTP									
teamuhd									
from https://teamund@bits ing for changes	bucket.org/tea	muhd/samplesharedrepo							
changesets.									
file changes									
1 changesets with 3 change	es to 3 files (+	1 heads)							
and completed successfully	Mon Apr 15 10	1:30:01 2013							

7. At this point, the local version is in sync with the remote version

efault.	Push to https://	teamuhcl@bitbucke	t.org/teamuhcl/sample	sharedrepo completed					
Abet_Test_Code	Graph	Rev	Branch	Description		Author	Age	Tags	
SharedRepo	2	3+	default	★ Working Directory ★		Rishita Khalathi	ter now		
UserRepo	1 K	3	oerault	Changes made to their story	ac	Rishita Khalatha	car now	op	
изектеро	1 T	1	default	Changes to Default asm		Richita Khalathi	ar 10 minutes		
	8	0	default	Initial Project Commit		Rishita Khalathi	kar 58 minutes		
	° 6° 0.	: 🛃 🗣 🔗	Post Pull: Non	e) Options DE Target: branch: default					
	Remote Reposi	itory: https://teamu	hcl@bitbucket.org/team	nuhcl/samplesharedrepo					
	https 💌 🙆	bitbucket.org	2	/ teamuhcl/samplesharedrepo					
	Paths in Reposit	tory Settings:			Related Paths:				
	Alias	URL			Alias	URL			-
	default	https://teamuho	(©bitbucket.org/teamu	c(/samplet/andropo	User2Repo SharedRepo	C/Users\kha C/Users\kha https://bitbu	lathkarn/Documen lathkarn/Documen cket.org/teamuhcl	si Mahahad Demoléta vsket (Vazdřepo 1) (Mahahad Demoléta vsket (Mared Repo 1) amplehared repo	
.og									
completed success	fully Mon Apr 15 10:35:	28 20 1.3]	and the shear's treatment on a	de hettere (des son des) ethette schart ann Amare des) in son	where the same the same				
o https://teamuhol@ onzation required bucket.org HTTP muhd) for changes olding changes solding file changes olding file changes olded 2 changesets objact: teamuhd is all d completed success	bitbucket.org/teamuhd with 5 changes to 3 file lowed, accepted paylos fully Mon Arc 15 102-11	(samplesharedrepo s od. 09 2013]							

- 8. Now, the local changes need to be pushed to the server.
- 9. Now push changes to repository

epository Registry 🖉 🗙	Graph	Rev	Branch	Description	Author	Age	Tags
🕌 default	9	3+	default	★ Working Directory ★	Rishita Khalathkar	now	
Abet_Test_Code SharedRepo UserRepo	0	3	default	default tip Merged About.aspx file	Rishita Khalathkar	2 hours	tip
	9	2	default	Changes made to About.aspx	Rishita Khalathkar	2 hours	
	6	1	default	Changes to Default.aspx	Rishita Khalathkar	2 hours	
TestParent	6	0	default	Initial Project Commit	Rishita Khalathkar	3 hours	
	t 🕑 ht	tps://teamuhcl@bit	bucket.org/teamuhcl/	/samplesharedrepo ?			

10.. Once the push is successful, all the changes will be seen in the BitBucket repository page.