Git,Source Tree installations and Setup

Steps to install git-scm client

1) Need to download git bash free download from https://git-scm.com/downloads

2) Install the git software (use default options)

Steps to Generating a new SSH key and adding it to the ssh-agent...

1) Open Git Bash.

2)Paste the text below, substituting in your official email address. ssh-keygen -t rsa -C "your_email@example.com"

3)When you're prompted to "Enter a file in which to save the key," press Enter. This accepts the default file location.

4)At the prompt, type a secure passphrase (optional). Two files under .ssh directory gets created Public and Private key... ex : id*rsa.pub and id*rsa ...

Need to copy the contents of id_rsa.pub to the Bitbucket server under settings->Manage Account-> SSH Keys option.

This is a one time work, post you will be able to clone and push without typing passwords...SSH will be able communicate with the use of the available private key on our machine with public key content stored on remote machine.

5)Download https://amerajiradocs.atlassian.net/wiki/download/attachments/10197206024/ca-bundle.crt?version=2&modificationDate=1627419652688&cacheVersion=1&api=v2

copy the ca-bundle.crt to <your_home_dir>/ca-bundle.crt

6) run the below command in a cmd shell

```
>git config --global user.name "Your Name"

>git config --global user.email "your.email@company.com"

>git config --global http.sslCAInfo <your_home_dir>/ca-bundle.crt
```

Installing Source Tree: A free Mercurial and Git client for Windows and Mac...

Download the Source tree software from https://www.atlassian.com/software/sourcetree/

Install source tree and register at Atlassian site for free license.

Uses of source tree:

1) Commit, push, pull, and merge changes easily with a click of a button.

2) Organize your repos with the intuitive bookmarks window.

Post Installing source tree you can clone the repository you want to work with under Clone/New option give the repository SourcePath/URL fetched from the Bitbucket server and the Destination path where you want the repository to be cloned...

Pushing the changes to Bitbucket repository : Use the Push option to push the changes to the remote repository if remote contains source code changes which you do not have,you need to do a Pull once which you can do it with the help of Pull option,to update your local copy and then push to the remote repository.

Changes made to the cloned repo can be seen under working copy->modified section where you can add the file to the index area and then commit the file with a message and then push to the remote repository.