The source control repository for 4010-361 team projects will be hosted on the team account provided by your instructor on linus.se.rit.edu. By using the SVNKit client, which is a pure Java client, Tortoise SVN and tunneling with PuTTY is not needed. Please follow the following steps to enable svn+ssh support in Eclipse:

Eclipse Setup (Personal Machine Only)

NOTE: This section does not need to be done if you are on a SE lab machine

1. If you have not done so, make sure you have successfully downloaded and installed EclipseIDEforJavaDevelopers
2. Install Subclipse
    1. In eclipse select **Help -> Install New Software...**
    2. Click the **Add...** button on the right to setup a new software site
        1. Enter `Subclipse 1.6.x (Eclipse 3.2+)` for the name
        2. Enter `http://subclipse.tigris.org/update_1.6.x` for the Location field, which was the newest release of Subclipse at the time this document was created (feel free to substitute a newer release if one exists)
        3. Click **OK**
    3. Select the newly added software site from the dropdown if it already isn't
    4. There should be three software components available to install, put a checkbox next to **Subclipse** and press **Next**.
    5. Continue through the menu options until Subclipse has been installed
    6. Eclipse will ask to be restarted, select **Yes** and let it restart

Creating Your Team SVN repository

Note this section must only be done once by one person from your team or ahead of time by your instructor.

0. Configure Subclipse for svn+ssh access
    1. Select **Window -> Preferences...**
    2. Type **svn** in the filter box found in the top left corner of the preferences window
    3. Click **SVN** from the results
    4. Select **SVNKit (Pure Java)** from the SVN Interface client dropdown
    5. Click **OK**

1. Repository Creation (*provided your instructor hasn't already done so*)
    1. SSH to linus.se.rit.edu using the **group account** provided by your instructor
    2. Issue the following commands from the home directory

       ```
       svnadmin create svn
       chmod -R g+rwx svn
       ```

2. Project Creation (*provided your instructor hasn't already done so*)
    1. Go to Eclipse, switch to the svn Perspective.
    2. Right click in the SVN Repositories tab and select **New -> Repository Location**
    3. Enter `svn+ssh://abc1234@linus.se.rit.edu/home/teams/361/x361-0yz/svn` in substituting (abcd1234) with your personal SE account ID on the left side of the URL and **x**361-0**yz** with your team (e.g. **w**361-0**1a**) account in the path.

4. Enter your appropriate credentials and optionally save them
5. Create the default svn directory structure
    1. Right click the repository name and select **New -> New Remote Folder**
    2. Add the following folders:
        - SEproject
            - trunk
            - branches
            - tags

Checkout The Project

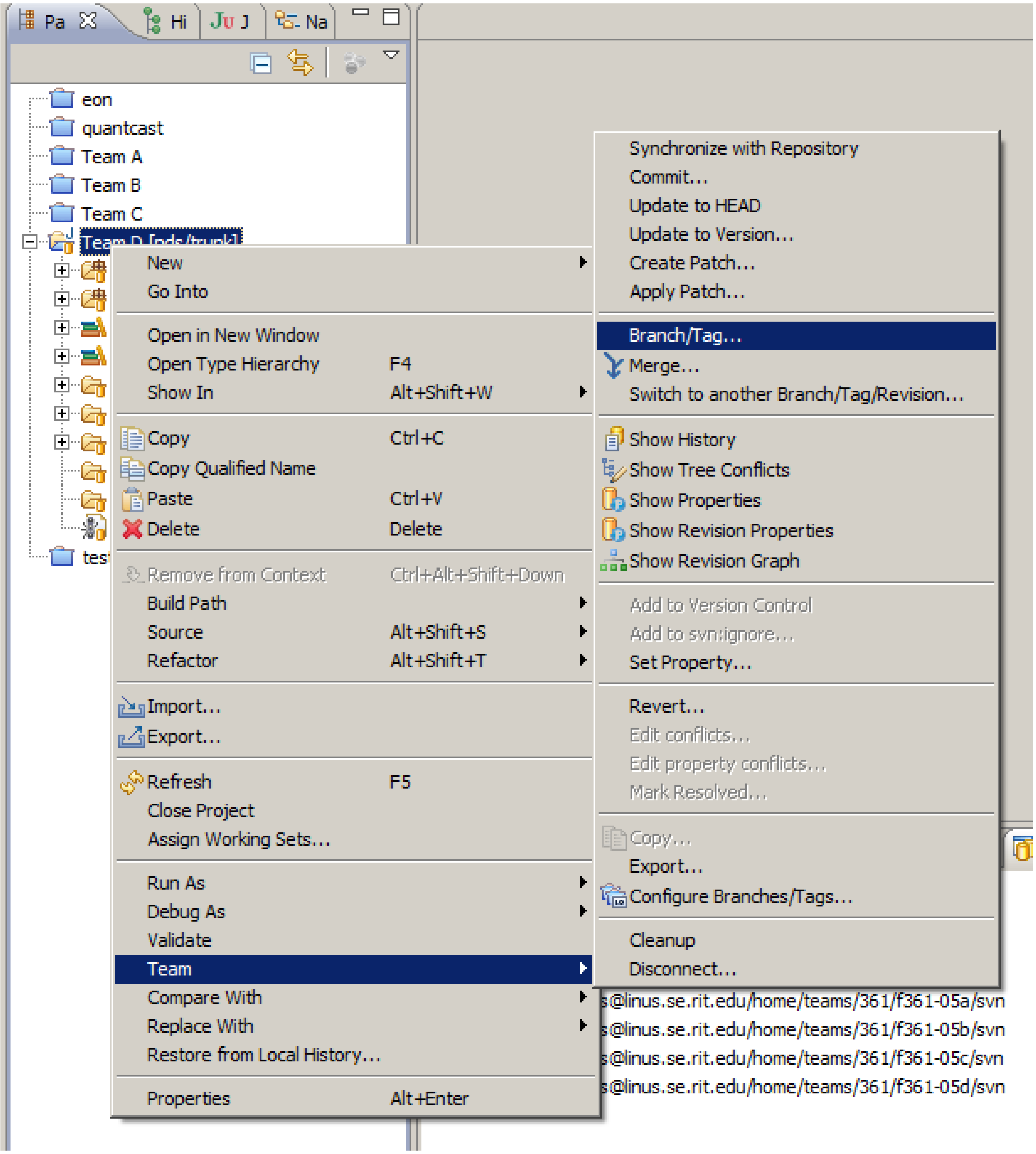
Note this section should be performed by each person on the team

1. Configure Subclipse for svn+ssh access
    1. Select **Window -> Preferences…**
    2. Type **svn** in the filter box found in the top left corner of the preferences window
    3. Click **SVN** from the results
    4. Select **SVNKit (Pure Java)** from the SVN Interface client dropdown
    5. Click **OK**
2. In Eclipse select **File -> Import…**
3. Select **SVN -> Checkout Projects from SVN**
4. Enter the repository URL as supplied in step 1.2.3 from the previous section and set it up if not already done.
5. Select **SEproject/trunk** folder to checkout
6. Click **Finish**
7. Pick **Java -> Java Project** and click **Next**
8. Name the project something appropriate (ie. SEproject, PDS, SmartVending, etc.) and click Finish

Tagging

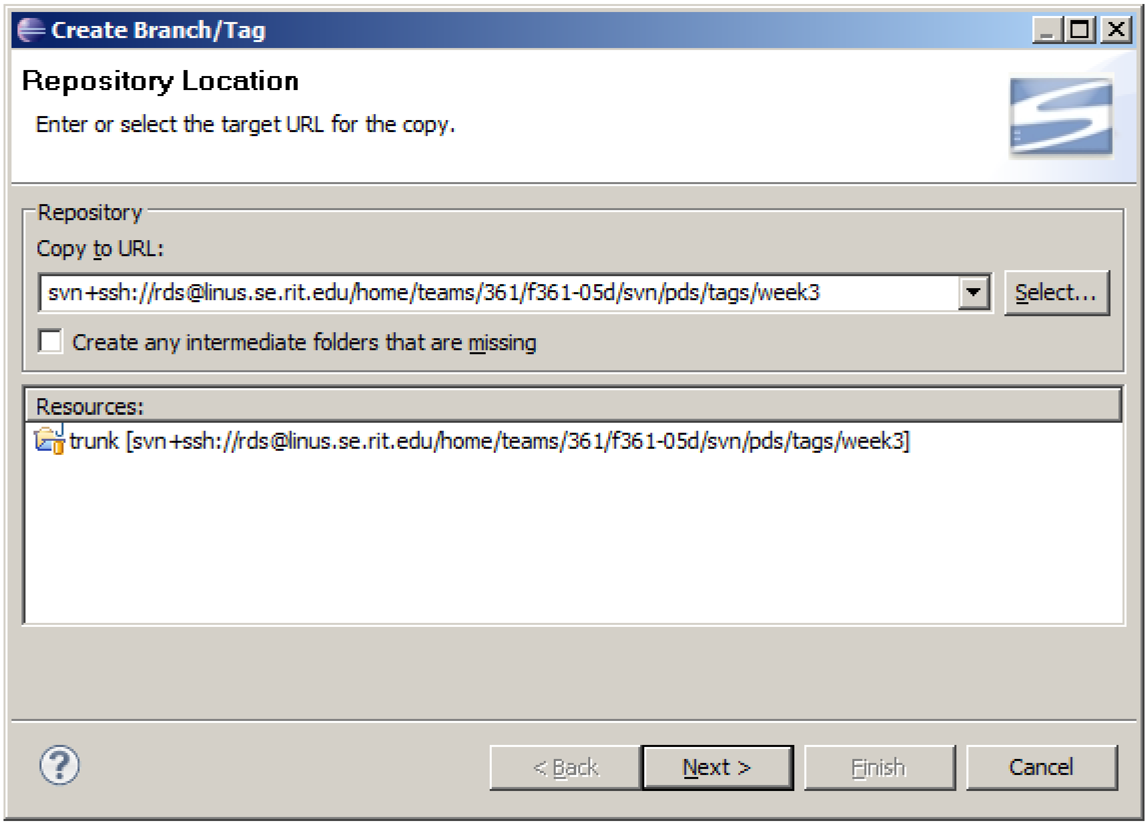
Tagging is useful anytime you want a snapshot in time of the state of your project. Your professor will instruct you on when tags are required, however most likely you will want to tag at the end of each week and the R1 and R2 releases.

1. Right-click on the root of your checked out project in the Package Explorer and select **Team -> Branch/Tag…**



2. In the **Copy To URL:** box replace the end of the URL with **tags/<desired_tag_name>**. For example:

   SEproject /trunk -> **SEproject** /tags/week3



Enter or select the target URL for the copy.

Repository

Copy to URL: svn+ssh://rds@linus.se.rit.edu/home/teams/361/f361-05d/svn/pds/tags/week3

☐ Create any intermediate folders that are missing

Resources:

trunk [svn+ssh://rds@linus.se.rit.edu/home/teams/361/f361-05d/svn/pds/tags/week3]

3. Advance through the rest of the wizard and the state of your repository from trunk will have been tagged.

Tagging from an SE lab machine

If you used SE machine that does not have the appearance of the above menus, you might instead be offered a "Tag" option when you right click on a file. Once selecting this option you will be prompted for the tag. It may be necessary at this point to pre-pend the path when tagging.

Possible Scenarios:

If you tried to tag only one file on the first time the tag is being created, you will need to do something like: **Requirements\Requirements.doc** where the first portion is the "actual" tag

1. If you try to do two files at once then it would be sufficient to use Requirements only
2. If you tag a folder all its contents will be "copied" to the tag. For example **Week 1**.
3. Last but not least if you try to add a file to a pre-existing tag (provided you did it correctly and it is showing as a "folder" under tags/) you can omit the full path **Requirements\SomeOtherFile.doc** and instead just enter **Requirements**

Always check the status of the repository to make sure things worked properly before assuming the assignment is complete. You may have to highlight "tags" and press **F5** to refresh and be able to see the changes. You can also have a team member verify by accessing the repo themselves to confirm your changes.