Sharing a Git Repository on Tux
Group Repository

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Overview

• You will have one group repository that everyone in the group uses.

• Each group member will also have a repository that syncs with the group repository
Overview

- The group leader will host the group repository in their CS account
- The group leader will also keep their own repository in their CS account
Overview

Team Leader Account

Team Repository (bare)

Leader Repository

Team member Repository

Team member Repository

Team member Repository
Setup: Group Leader

- Set up of repository (team leader)
  - Create group repository
  - Create your own repository
  - Set permissions for group members
  - Import your repository to a project
Setup: Create Group Repo

- From the Command line
  - Create Directory:
    /home/uid/git/se101/game
  - cd into /home/uid/git/se101/game
  - git init --bare game.git
  - mkdir game
  - cd game
  - git clone ../game.git
Setup: Permissions for Group

- From the command line:
  - In directory `/home/git/`
  - For each group member
  - `setfacl -Rm u:uid:rwx se101/`
  - This gives each group member permission to use the group leaders se101 directory
Setup: Import Repo as Project

- Start up eclipse
- File > Import
- Git > Projects from Git
- Next > Add
- In directory should be:
  - /home/uid/git/se101
Setup: Import Repo as Project

Search and select Git repositories on your local file system

- Check ‘Look for nested repositories’
- Search
Setup: Import Repo as Project

Search and select Git repositories on your local file system

1 directories are hidden as they have already been added

Search criteria

Directory: /home/evs23/git/se101

- Look for nested repositories

Search

Search result:

- /home/evs23/git/se101/game.git
- /home/evs23/git/se101/game/game.git

OK
Setup: Import Repo as Project

- Project wizard
  - Choose java project
  - Name your project ‘game’
  - Finish
Setup: Add Project to Repository

- Right click on project > Team > Share project
- Git > Next
- Select your repository from drop down list
Group Member Setup

- Import repository to a project
  - File > Import
  - Git > Projects from Git
  - Next
  - Clone
Group Member Setup

• Fill in Host and Repository path, URI will fill in automatically

• Repository path

• Team leaders uid

• Authentication

• Use your uid and password
Group Member Setup

- Next
- Cloned repository should go to
  - /home/uid/git/se101
- Finish
- Brings you back to ‘Select a Git Repository’
Group Member Setup

- Select the game repository you just created
- Next
- Select ‘Use the New Projects Wizard’
- Finish
- Choose ‘Java Project’
- Name project ‘Game’
- Finish
Group Member Setup

- Right click on project > Team > Share project
- Git > Next
- Select your repository from drop down list
Using the Group Repository

- Pushing to team repository
  - Edit your Game project as you normally would
  - Commit as you would normally
  - Team > Push to Upsteam
  - Pop-up window with details > OK
Using the Group Repository

- Pulling from team repository
  - Team > Pull from Upstream
  - Pop-up window with details > OK
  - Team > Merge