# CS590RA

# **Tutorial 1**

**UMKC** 

# Topics to cover

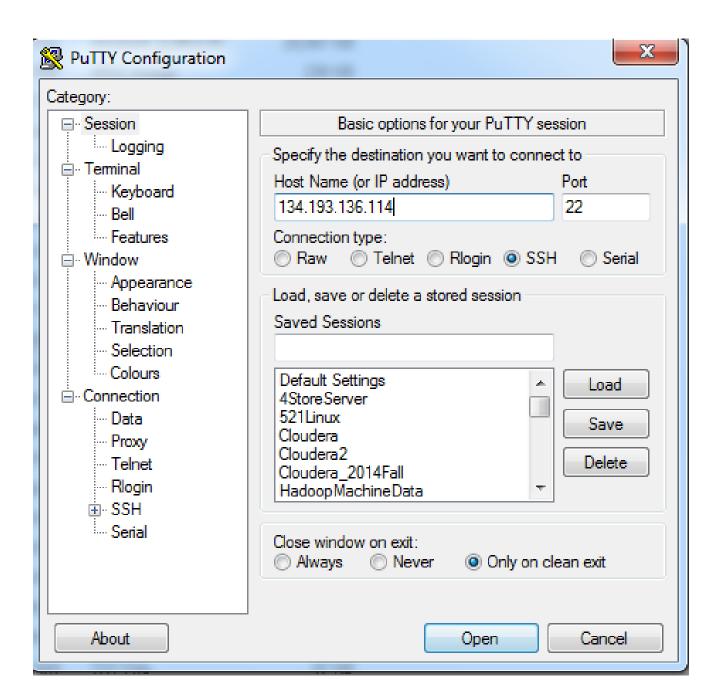
- Remote Linux machine
- Git
- ScrumDo (tool for agile process management)
- Cloudera virtual machine

### Remote Linux Machine

- This class is a Linux based class
- We have ordered a remote virtual server
- You have to be familiar with Linux operations and how to run java program on Linux during this class

#### Remote Linux Machine

- How to login?
- Download putty
   http://www.chiark.greenend.org.uk/~sgtatham/p
   utty/
- Host name is 134.193.136.114
- Each group will have an account, user name and password are same
- For example, for group1, user name is group1, password is also group1
- You can change your password by typing passwd



- Distributed revision control tool
- Sign up an account for:

GitHub remote: <a href="https://github.com/">https://github.com/</a>

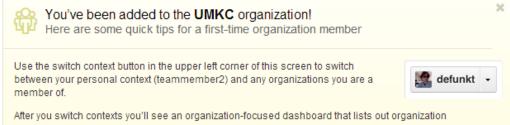
- Install git:
- sudo yum install git

## **Git Tasks**

- 1. Create Git remote repository using Git account
- 2. Clone git repository to your local
- 3. Use git to add file into local
- 4. Modify files and use git to commit change
- 5. Use git to push the commit to remote
- 6. Use git to pull (sync) content with remote

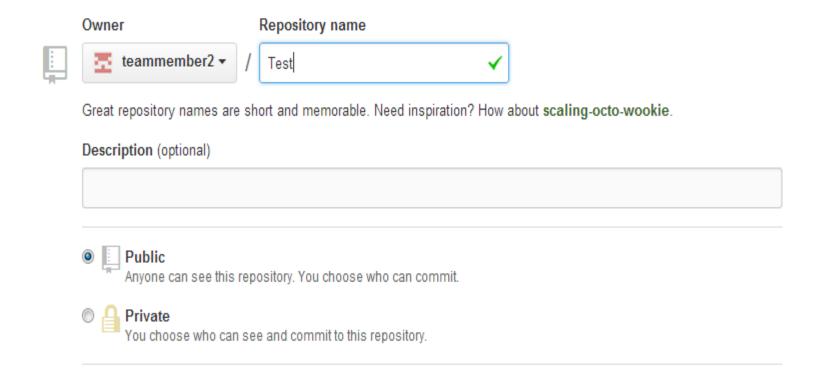
## 1. Create Repository



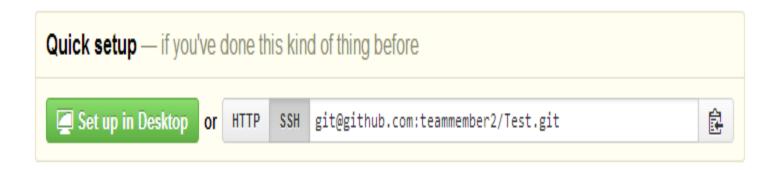




# Git 1. Create Repository



## 2. Clone repository to your local



We recommend every repository include a README, LICENSE, and .gitignore.

git clone git@xxxxxxxxxx.git

# Git 3. Add file to local repository

- vi Newfile.txt
- git add Newfile.txt

## 4. Commit this change

- git commit –a –m 'changing by sfc'
- After commit, you can check git status to see if work directory clean
- git status

## 5. Push the change to remote

To push to git remote, we have to use SSH, there are some steps here. For reference, please see <a href="https://help.github.com/articles/generating-ssh-keys">https://help.github.com/articles/generating-ssh-keys</a>

## 5. Push the change to remote

(1) Generate a SSH key with your github email address

ssh-keygen -t rsa -C 'your\_email@example.com'

It will ask you the file name to save this key and passphrase, I just press Enter to make both of them blank

The output will be two files:

id\_rsa and id\_rsa.pub

## 5. Push the change to remote

- (2) Add your new private key to the ssh-agent
- ssh-agent –s
- eval \$(ssh-agent)
- ssh-add id\_rsa

## 5. Push the change to remote

- (3) Copy public key to your github account
- vi id\_rsa.pub
- To copy content from putty, just press down "alt" button and select content you want to copy

## 5. Push the change to remote

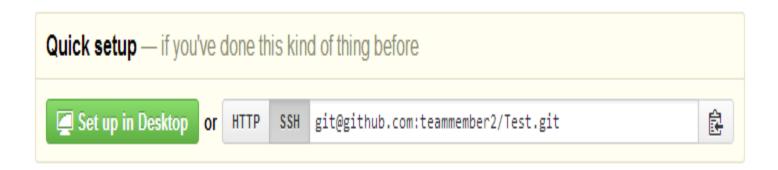
- (4) Copy key to your github account
- In the user bar in the top-right corner of any page, click setting button
- Click <u>SSH Keys</u> in the left sidebar.
- Click Add SSH key.
- In the Title field, add a descriptive label for key
- Paste your key into the "Key" field.
- Click Add key.

5. Push the change to remote

(5) SSH to github for testing ssh -T git@github.com

## 5. Push the change to remote

(6) Switching remote URLs from HTTPs to SSH git remote set-url origin git@gxxxxxx.git



We recommend every repository include a README, LICENSE, and .gitignore.

# 5. Push the change to remote

(7) Now you can push git push --all

# Git 6. Sync local with remote

If something change in remote, for sync purpose, you can type git pull

- Above are some basic git commands
- Enough for your homework and project submission
- For more advanced commands, please refer:

http://git-scm.com/book/en/Git-Branching-Basic-Branching-and-Merging

### ScrumDo

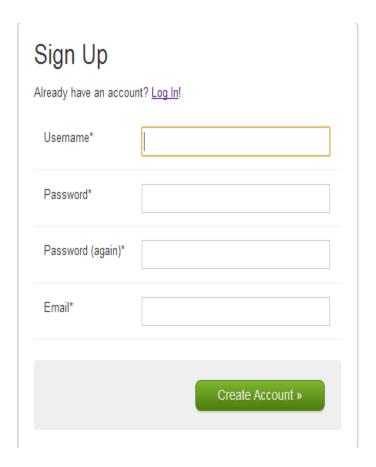
- It's an agile management tool
- Backlog management
- Iteration Planning
- Story

# Getting ScrumDo

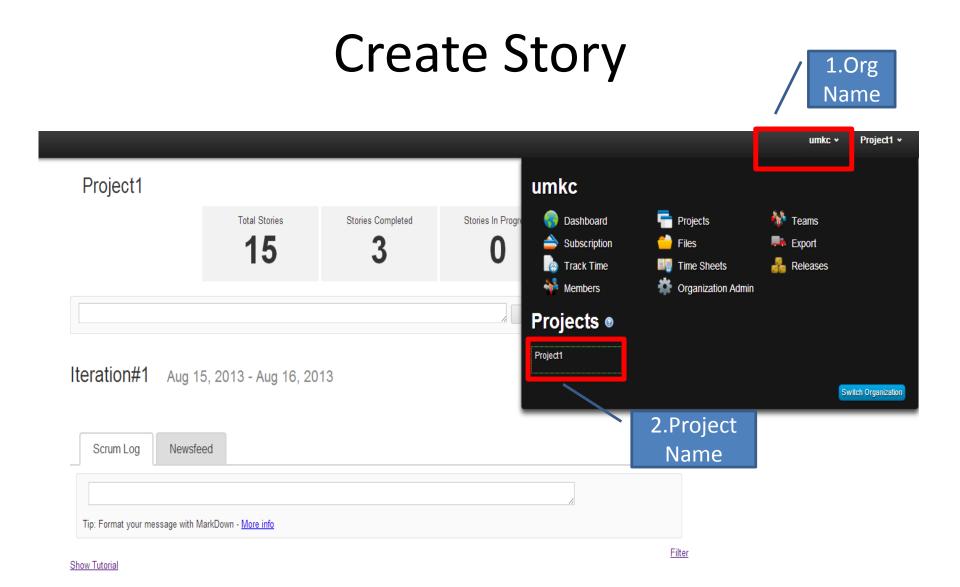
- Access from: <a href="http://www.scrumdo.com">http://www.scrumdo.com</a>
- Platinum
- Gold
- Silver
- Bronze
- Free Trial Version (Cover all scrum basics)

# Sign up & Log in

Working on someone else's projects? Skip this step.



#### Create an Organization and a Project An organization lets you group people into teams that work on projects. You can skip this step if you're working on a project someone else created. Organization name\* Umkc The name of your company or team of people. Project name Project1 The name of the project to work on. You can add additional projects later. Project members Enter email addresses of members to invite. One per line.



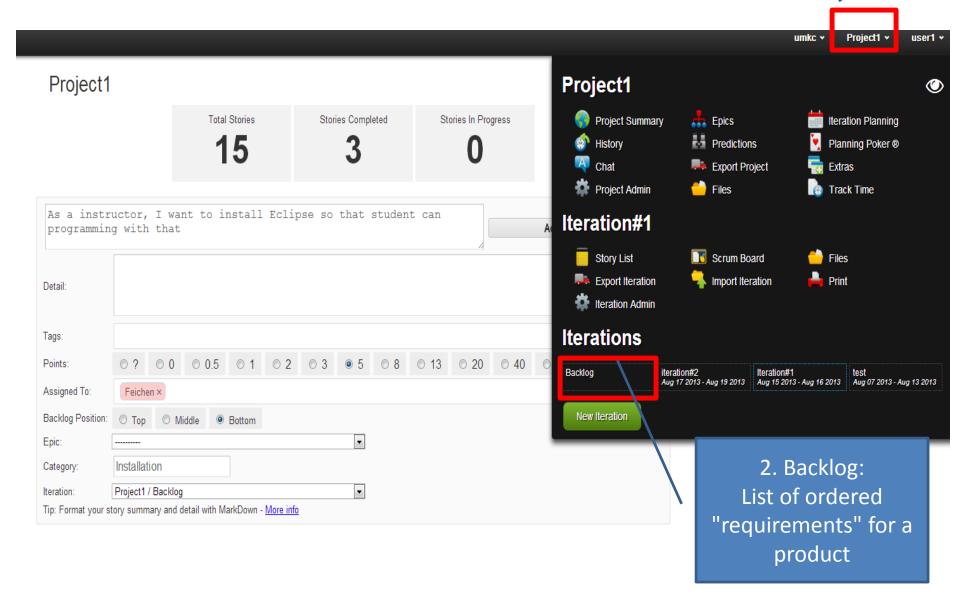
Simply say, story is user requirement, create story before implement

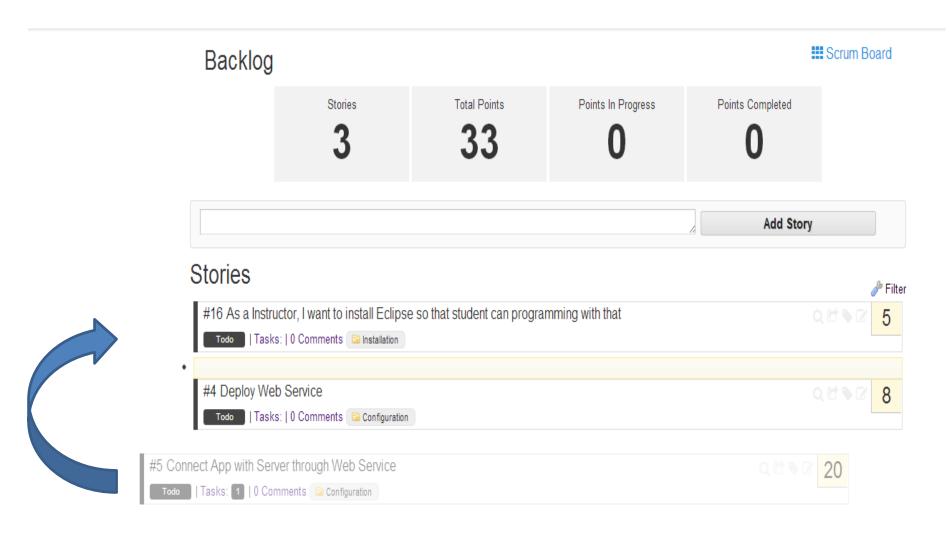
- A short description from customer or user who desires new features
- Format of Story:

```
"As a <role>,
I want <goal/desire>
so that <benefit> (optional)"
```

- As a user, I want to search for my customers by their first and last names.
- As a mobile application tester, I want to test my test cases and report results to my management.





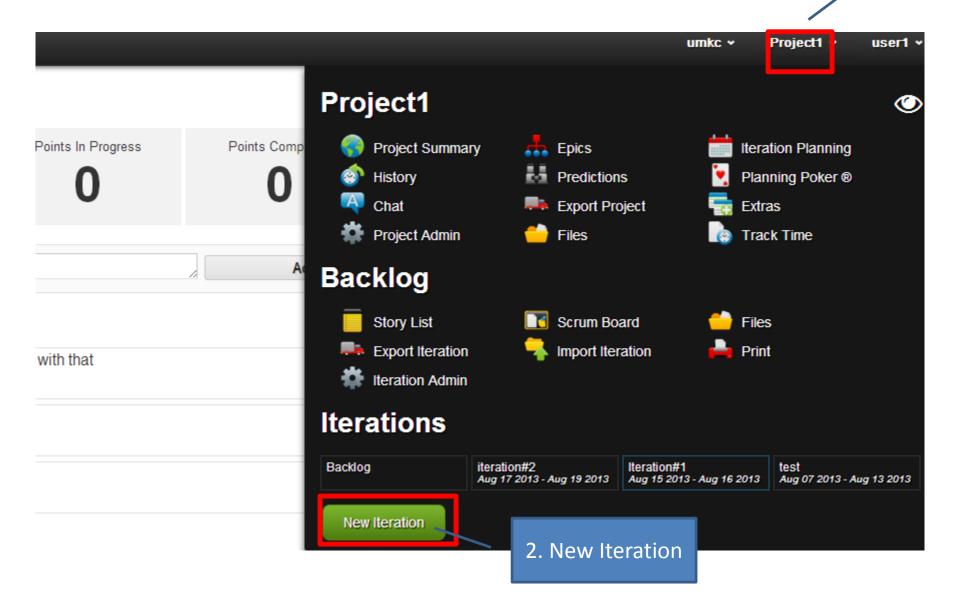


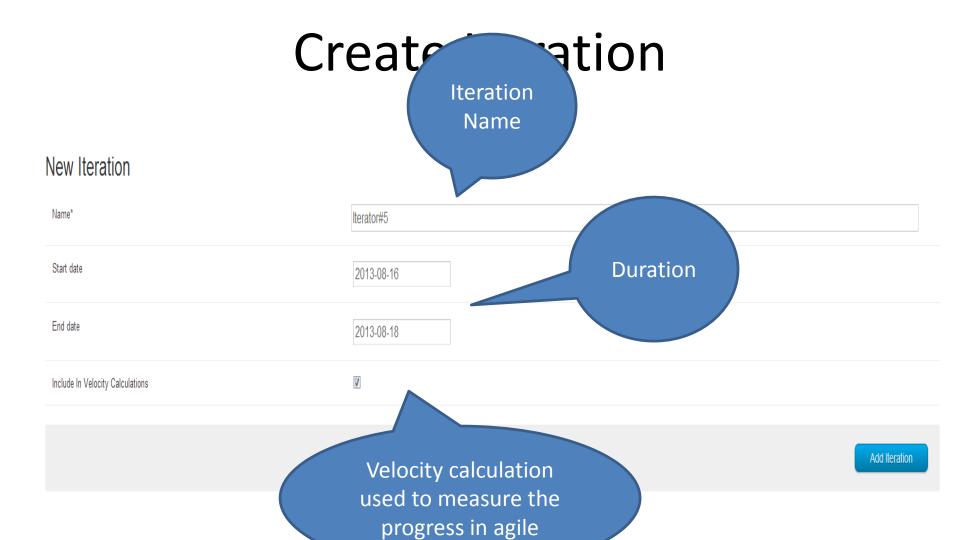
# Backlog vs. Iteration

- Backlog lists all requirement for a product, like a warehouse to store all the requirements
- Such requirements will be picked from backlog and distributed to different iterations
- Job will be finished in each iteration

#### Create Iteration

1. Project





#### Create Iteration

**Scrum Board** Iterator#5 Aug 16, 2013 - Aug 18, 2013 Total Points Points In Progress Points Completed Stories **Not Enough Data** Some Tips: 1. Size your stories We don't have enough data to draw this 2. Set the iteration dates to include today burn up chart right now. 3. Burn-Up charts are generated nightly Burnup | Burndown | Stacked | Hide Chart

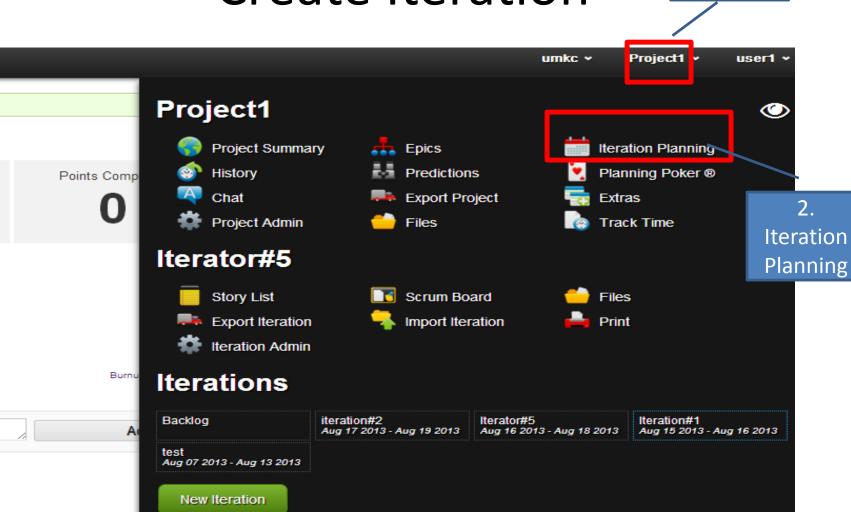
Add Story

Stories



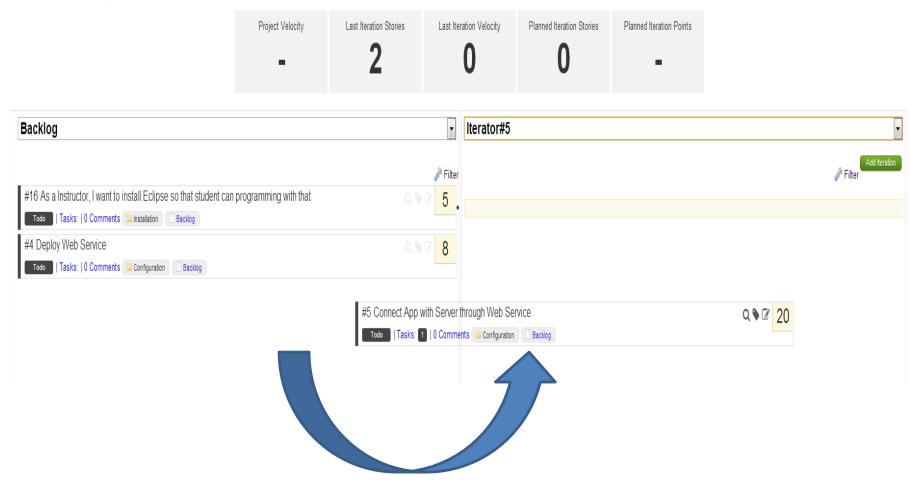
**Create Iteration** 

1. Project



#### Create Iteration

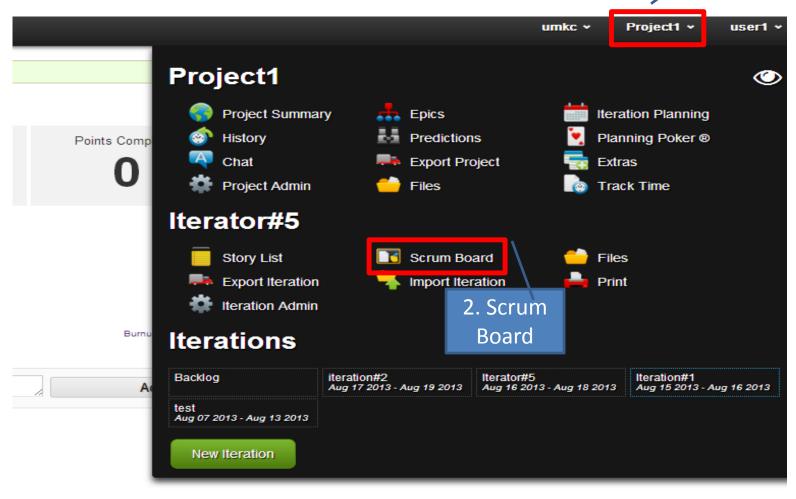
#### Iteration Planning





1. Project

Update and trace the progress



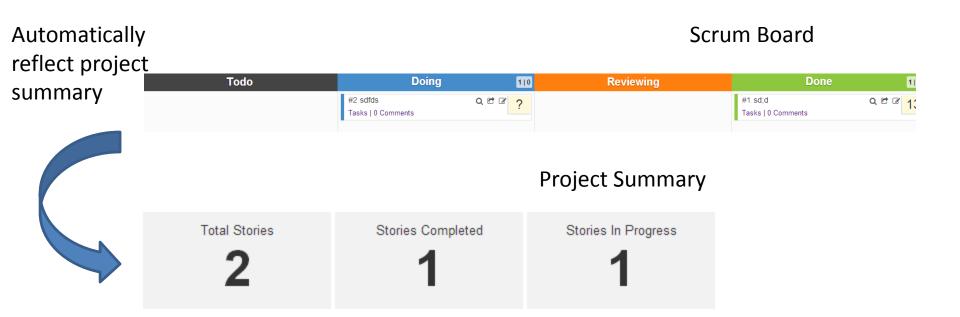
#### Scrum Board

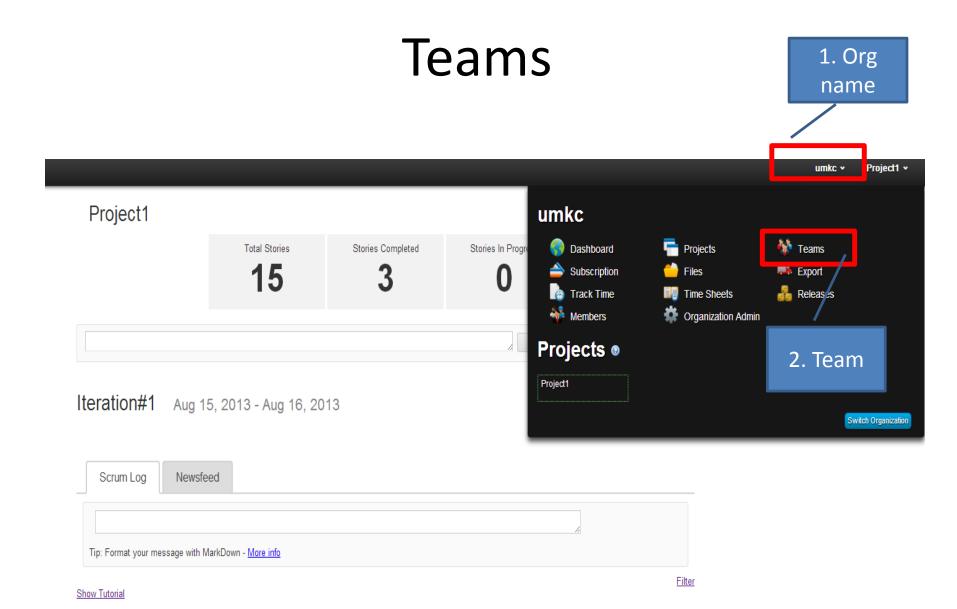
#### Update status of jobs

4 classes here, drag and drop stories from class to class



## Scrum Board





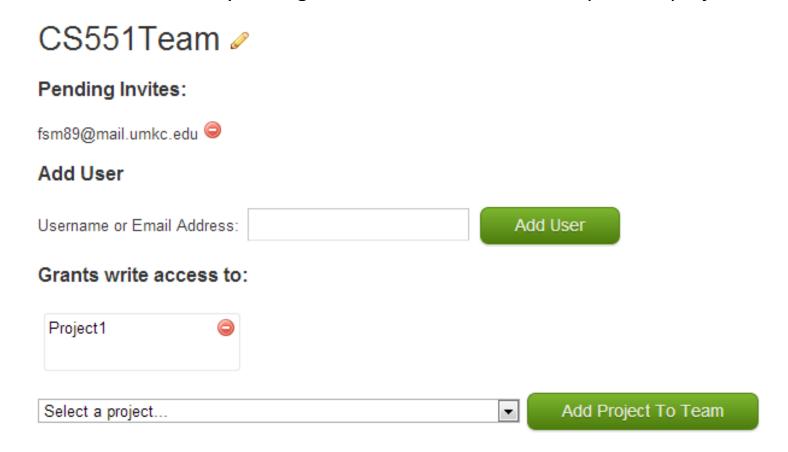
We can create a team, assign access type

#### Create Team

A team is a group people that have access to projects.



Invite team member by adding his/her email address, add specified project to team



Note: Team member must register ScrumDo Account first

 Open team member's mail box, activation email as follows:

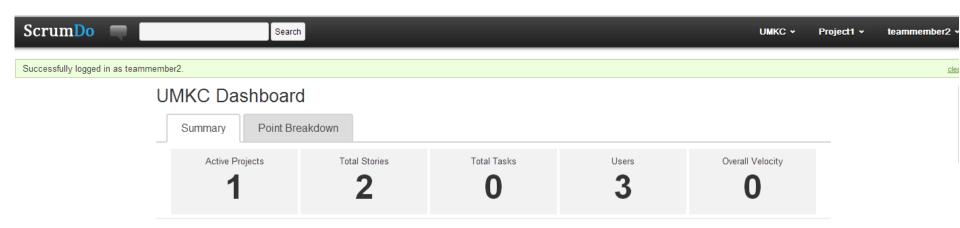
Hello,

Someone has just invited you to the ScrumDo team CS551Team in the UMKC organization. Please follow the link below to accept.

http://www.scrumdo.com/organization/accept/xxxxx

Thank you!
The ScrumDo Staff

After clicking link, team member user can share the same view of project



## Cloudera Introduction

- Platform for Apache Hadoop and its ecosystem
- CDH (Cloudera Distribution Including Apache Hadoop) is its open source Apache Hadoop distribution

#### Cloudera Introduction

- We have created a Cloudera server.
- To login to the Cloudera manger, you can go to either one:

http://134.193.136.114:7180

- Port 7180 is the port number to reach Cloudera manager page
- User name is your SSO id, password is also your SSO id (ex: bgkhc, bgkhc)
- If you are out of school, you have to connect UMKC vpn first before login
- http://www.umkc.edu/is/support/services/vpn/

#### Install Cloudera

- 1. Download Vmware player (<u>http://www.vmware.com/products/player</u>)
- 2. Go to <u>http://www.cloudera.com/content/support/en/downloads/download-components/download-products.html?productID=F6mO278Rvo</u>
- You can get the Cloudera 5.1 image. You can choose Vmware or Virtualbox one. What I used is Vmware one
- 3. BIOS configuration: enable Virtualization Technology

## Install Cloudera

- 3. Open Vmware->open->the image you just download, start the image
- 4. User name and password is "cloudera"
- 5. log in to system
- 6. Open Firefox, you can see some tabs are already made for you, like cloudera manager, solr, hue. Just click them to login

# END