Workflow 2

This part of the demo will show me using the OMERO.web client to connect to the same OMERO server and view and annotate data in the collaborative group Andrew has just been using.

I will also show how to make data public and link to it from a web site.

1.   Log in as gus using Safari on the Mac

The Web client has almost all the same functionality as the Insight client, but you cannot import data or add ROIs to image using the Web client.

OMERO allows collaborative work by having groups which selected users can be members of. This means the members of a group can see and work with other members images that are kept in that group.

Andrew myself and a few other users are members of the Nevis Group which is read-annotate, meaning all members of the group can view data in the group belonging to other members and rate, tag or comment on this data.

We can also change rendering settings on images, but these are saved separately and will not replace the owner's settings, but can also be used to view the image by other members of the group.

There are currently 4 levels of permissions settings for groups, and the details of them are all in documentation.

Explaining what I am doing:

2.
Go to group menu and select Nevis Group
        - select group to show gus data - (don't have much)
        - select "Andrew" to show his data

3.
Expand Nevis Group in data tree and show Andrew's data as viewed in WF1
        - select an image
        - add a comment "I really like this one"
        - add a tag "Gus"
        - show that the tag belongs to me

Explain: as the owner of the data Andrew can remove my tag from his data.

        - open the first image in the dataset
        - make it monochrome
        - and save it

Explain: I see it as monochrome as I want it, and Andrew still sees it in colour as he wants it.

4.

We have taken the sharing a step further to allow people to make their data viewable publically to people who are not users on the system and so don't have any log in.
The Public sharing option must be enabled on the server by the system administrator.
The Administrator
      - creates a Public Group
      - which is read-only
      - creates a Public User
      - and makes the Public User a member of the Public Group

If you then want to make data publicly available, you ask the Admin to make you a member of the Public Group, and you move any images you want to make public into the Public Group.

At present images can only be in one group at a time, so you either have to move the images out of another group into the Public Group or re-import the images to the Public Group.
Alternative approaches to this are in development at the moment.

The data in the Public Group is then visible to anyone via the web client without any login being required - on a read-only basis.
Explain:
Jason wants to add one of my images to the lab website.
      - Go to my own data.
      - Move an image to the Public Group > Website project > Jasons Lab dataset

Any image on OMERO has a URL which can be accessed through the Web client.
      - I select the image
      - click the link button
      - and copy the URL to my clipboard

This URL can be pasted into my electronic log book or wiki page or be emailed to someone, and it will take someone to that image.
      - open Chrome
      - paste URL into address box
      - log in as Jason
      - show that he can see my image

The Image ID from this URL can be used in HTML links so the image can also be viewed as a thumbnail embedded in any web page. The thumbnail is generated by the OMERO server.
      - Switch to HTML page with examples in it.
The Image ID can also be in a link that opens the image in a full viewer when the thumbnail is clicked.
As this image is in the Public Group, no login is required.

This is a configuration option which we have enabled on the School Server at Dundee.
Click on link and go Jason's lab site

This is Jason's Lab website which uses Drupal CMS and here is a thumbnail served directly from the OMERO server.

     - Click on the <u>INCENP</u> thumbnail to open full viewer - demonstrate the viewer works

Show the channel settings work and move through the Z stack

The HTML in the link can be customised to give any size thumbnail you wish.

Click on the link to the Demo page

This is a simple demo page I have to show how it works, and I have put the thumbnails into galleries.

They all link through to the image in the full viewer.

     - Click on the <u>Wild type lamin-B envelope</u> thumbnail to illustrate full viewer

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We are working on extending the functionality for publically sharing and publishing data using OMERO and would like to hear about anything you would like to be able to do or requirements you have for publishing data and we will use this for on-going developments.

Finally - just to show you that our web client works on mobile devices.

     - Pick up iPad and show the web client in the iPad

We are looking at developing specific versions of the Web client for mobile devices, so we would also welcome any thoughts or requirements you might have on that score.

End section