Trula Fountaine, Web Developer
Aurelea Mahood, LSBA Degree Coordinator
Scott Robarts, Web Server Administrator



#### Capilano University's Liberal Studies BA

- Bachelor of Arts degree
- Individualized Majors Program (120 credits)
- Course selection driven by each student's educational and/or professional goals
- 39 common credits: Liberal Studies Core Courses plus Writing,
   Science, Quantitative, and Language Requirements
- 81 elective credits in Arts and Sciences (option to complete max 21 credits in other Faculties)
- Interdisciplinary degree culminates in 3 exploratory research tutorials and a graduating (or capstone) project completed one-on-one with a faculty advisor



#### The Liberal Studies Challenge

- COMMUNITY: Create a sense of community in a degree program with a high degree of student autonomy and choice
- CURATION: Ensure students have the tools to curate and archive their academic work throughout the course of their degree
- ACCESS: Provide faculty with easy access to students' signature work throughout their studies
- DISCOVERY: Permit students, faculty and other members of the university's Liberal Studies community to find and identify each other
- STORY: Ensure all Liberal Studies students have a compelling and accessible means by which to share their emerging expertise, knowledge, and skills, especially upon graduation



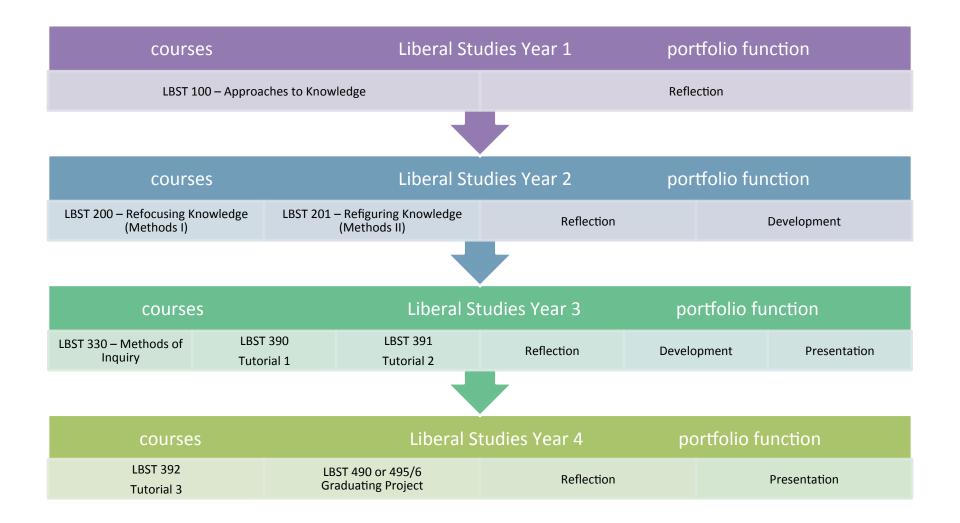
#### The ePortfolio Solution

#### Why ePortfolios?

- Capture student story.
- Showcase student work, reflections, and achievements.
- Student select the artifacts on display.
- Permit students to easily share their work with others, but only when they are ready to share.
- Highly adaptable.



#### **Liberal Studies Core**





#### Liberal Studies ePortfolios

# Trula Fountaine, Web Developer Capilano University



#### **Trula Fountaine**

Web developer at Cap for 16 years





# **Expression of Interest (EOI) for a Pilot Project Liberal Studies Bachelor of Arts (LSBA) ePortfolio websites can:**

- be used to build a course website
- allow group authoring on a blog
- provide **peer review** of authored content (editing with comments)
- provide class webspace development (adding annotated links/ building a shared resource for a class)
- provide a personal portfolio for 50 75 students, faculty and staff (upload media – slides, video, images of your artwork)
- be available for an unknown duration



Do not grieve, Admiral. It was logical. The needs of the many outweigh the needs of the few.





#### **Policies and Procedures**

- Does marketing need to be involved branding?
- How will student privacy and permissions be handled?
- What is our privacy, intellectual property and copyright statement in this situation?
- Who owns the ePortfolio?
- How will site requests be handled?
- How long will a learner's records be retained, so they may reflect back on progress between 'then' and 'now'?
- How long must data be stored after learner leaves the institution?
- What are the institutional obligations of stewardship?



#### **Technical**

- What system should we use?
- How much space will be allocated?
- How do we set **privacy** controls?
- What templates do we make available?
- What plugins?
- What do we need to consider with regard to Moodle, LDAP and other systems?



#### **Support and Training**

- Who will support the users?
- Who is training who?
- When will training begin?
- Who will write training documentation?

#### **Evaluation of Pilot Project**

— How do we know if this is a successful pilot project?



Do we boldly go where no man has gone before?





#### Hell no!



Let's see what's out there, there ...







... standing on the shoulders of giants.
~ Sir Isaac Newton



FROM UBC BLOGS

WITH PERMISSION OF COURSE ...

News & Updates

LSBA Grad Projects / Spring 2016

by Aurelea Mahood | Apr 5, 2016 | 0 Comments

We are proud to welcome a new site to the Liberal Studies ePortfolio ecosystem. The newest site is entirely devoted to the LSBA Grad Projects completed by upper-level Liberal Studies students. The site currently features student profiles and descriptions



#### The Final Frontier ... of a Pilot Project

**Measure for Success** 

 The LSBA program students were surveyed after the new sites were delivered.

- » The feedback was **positive** and the surveys had a **high response** rate.
  - They had a peer mentor student available to assist with technical support during the roll out and delivery of the sites.





#### **Key Accomplishments:**

- Delivery of final product occurred prior to planned go live date
- Coordination and communication between IT and Faculty was highly effective and strengthened relationships between the two areas
- As a pilot project, this allowed us to see how the technology works and what to expect from future WordPress initiatives





**Students** are

And feedback is positive.





# Scott Robarts, Web Server Administrator Capilano University



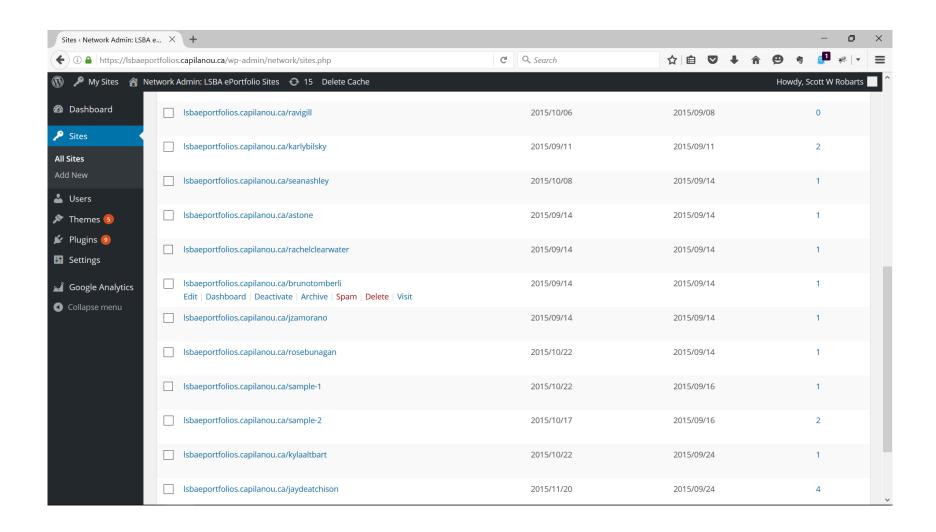
#### Wordpress Multisite:



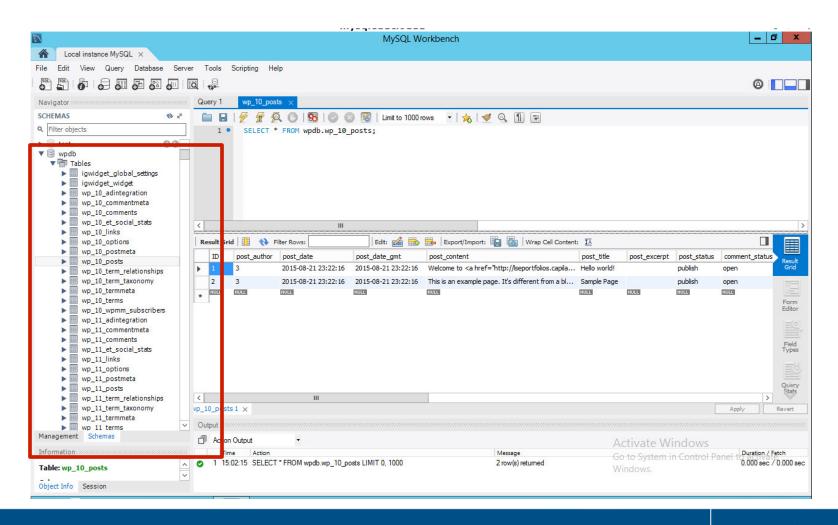
#### Wordpress Multisite Concepts:

- Network versus site
  - Network of sites, rather than one site
  - Adapt administration practices
- Systems and Site Administrators
  - Network Admins
  - Admins site by site
- Subdomains or subfolders structure
  - Choose between;
  - Janedoe.eportfolios.capilanou.ca or
  - Eportfolios.capilanou.ca/janedoe
- Shared plugins and themes
  - One plugin, many sites
  - One theme many sites
- Centralized updates
  - Update Wordpress once















#### Multisite Problems:

- 1. Not all plugins and themes compatible
- 2. User management challenges
- 3. Some things counter-intuitive
- 4. Privacy concerns



#### User management challenges:

- Mapping AD groups to Wordpress roles
- AD groups for subscribers and administrators
- How to allow users to administer their own sites but not others?
- User access has to be manually elevated not a sustainable solution



#### **Authentication:**





#### Risks:

- Significant increase in attack surface
- Responsibility for maintaining student and faculty data
- Privacy concerns will user share too much information?
- Prevention; backups, updates, and education



# The Infrastructure: BCNet Educloud



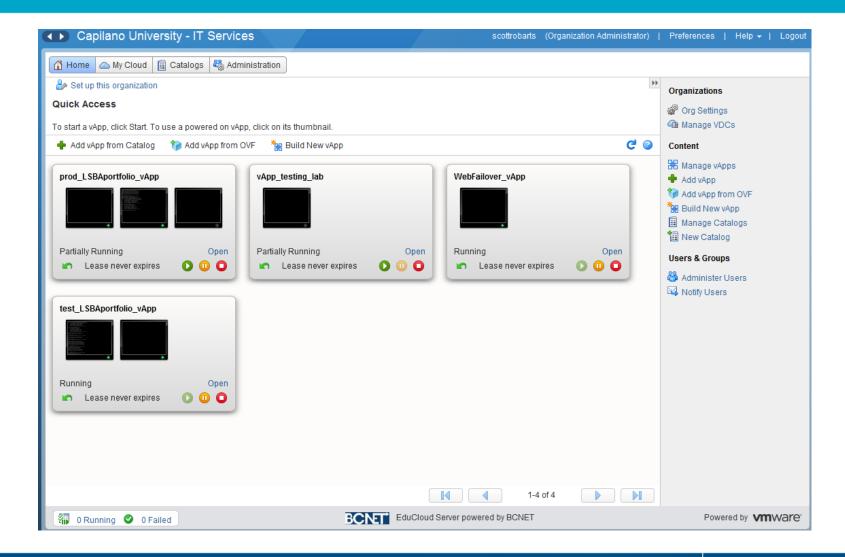


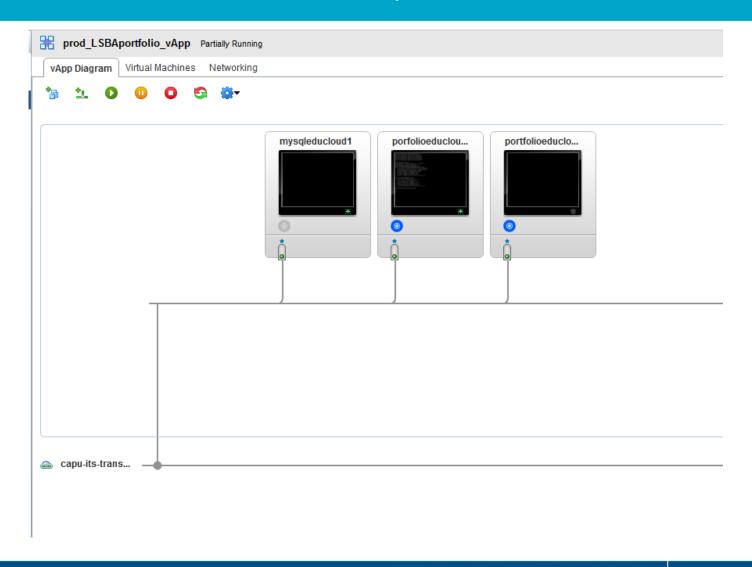


#### **Educloud Features:**

- Use of vApps
  - Collection of servers, easily to replicate, clone enter farm contained in vApp
- VPN integration
  - Seamless connection to CapU network
- Multiple networks
  - Can have different network for different uses, e.g. web servers on one, databases on another
  - More security by isolating servers
- Load balancing
  - Simple load balancing available right in Educloud
- Automated backups
  - Backups provided by Educloud, either local or remote







#### What's Next?

E-portfolios or Wordpress sites available for all students and faculty.

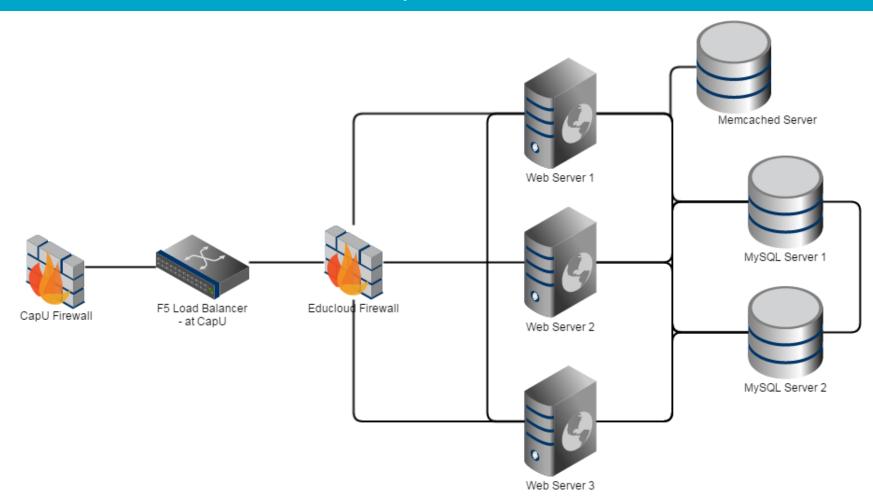
Could be thousands of sites.

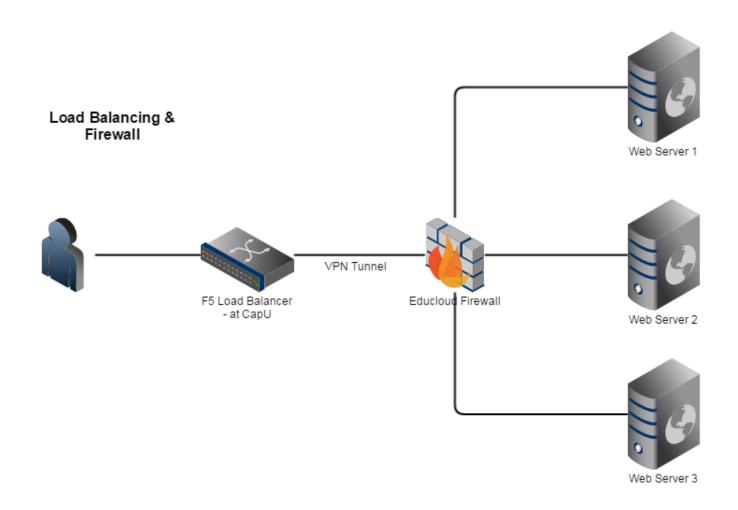


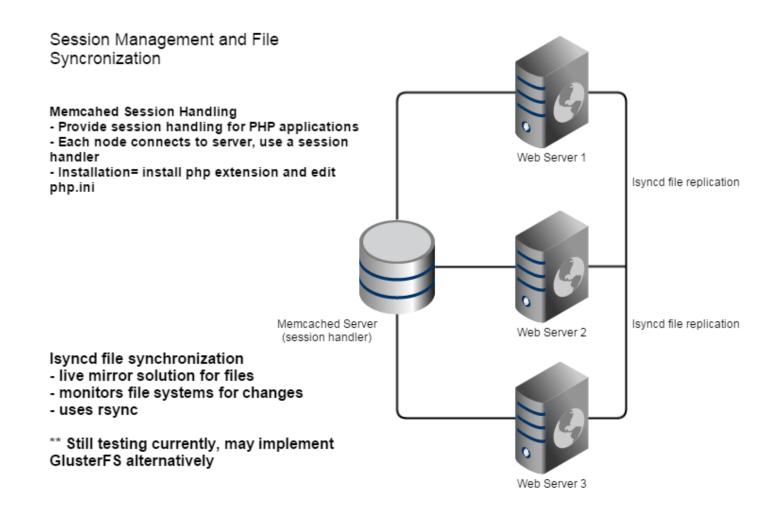
How do we scale?

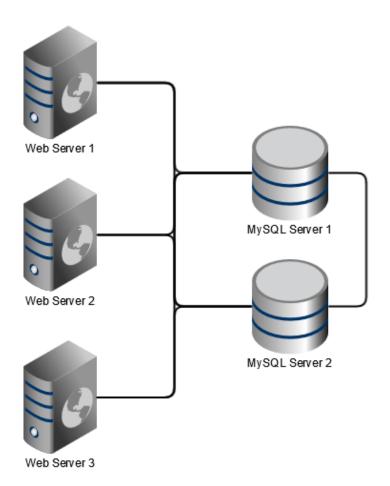
High-availability, redundant, load balanced Wordpress











#### Windows Server Failover Clustering

- One primary node, one secondary node
- Not load balanced, but allows for automatic failover to backup server
- MySQL data replicated to both servers to allow business continuity in case of failure
- Also allows maintenance without outage

The Future



#### The Future: Opportunities and Challenges – A Few Examples

- Challenge 1: Scaling up
- Challenge 2: Ensure "folio thinking" is experienced as a meaningful supplement to traditional coursework by Liberal Studies students and faculty alike
- Opportunity 1: Refine and expand mechanisms for supporting students and faculty
  - Example 1: Peer Mentors
  - Example 2: Folio Thinking Campus Learning Community
- Opportunity 2: Share our experiences, models, and resources with our campus community and beyond





Congratulations to all of the students presenting at this evening's Liberal Studies Grad Shomcase!

② 2016/03/31 🗪 0

#### Taylor / Spring 2016



Taylor Smith has served on the board of directors at the Capilano Students Union since 2013. She is a freelance writer whose work has appeared in VICE,

#### Sarah / Spring 2016



Sarah Noon-Ward has worked as an activist and advocate with marginalized communities for over a decade. Working with organizations like the North Shore Women's Centre, North Shore Neighbourhood House, Yew Transition House, the Salvation Army, and the Sechelt Indian Band....

Continue Reading →

#### Holly / Spring 2016



Holly Tang began her studies at Capilano when it was redesignated a university. After a handful of semesters, she left to complete associate degrees in Psychology and Health Sciences at another institution. With the desire to complete a bachelor's program,...

Continue Reading →

2016/03/29

#### Thank you!

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