Ontario Library Research Cloud - OLRC

SP Day update
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OLRC overview

name

background

brief project overview

current state

future directions

what's in a name?

ODLRC = Ontario ~~Digital~~ Library Research Cloud

   is now ...

OLRC = Ontario Library Research Cloud

digital and *cloud* seemed redundant

analogue clouds?

Curtis Cronn, flickr

easy to say

OLRC = Oh-lurk (o lərk)

*powered by the OLRC

I ♥

OLRC background

2012 - several partners discuss building a preservation cloud for Ontario

original plan: 250 TB

funded by OCUL partners in tandem with OCUL

why do this?

- Canadian solution
- lower cost per terabyte than others
- develop expertise
- strengthen OCUL collaboration
- provide better and more flexible support to researchers
- rock solid digital preservation

OLRC enhanced

mid 2013: MTCU calls for project proposals

expands to include text mining services

also now 1.25 PB (1250 TB)

MTCU details

- nine partner libraries from OCUL
- three-year project
- U of Toronto as financial lead
- subscription storage services to other OCUL libraries
- develop interfaces with library repository applications
- create a Hadoop cluster to support text analysis of content in the cloud

OLRC partners

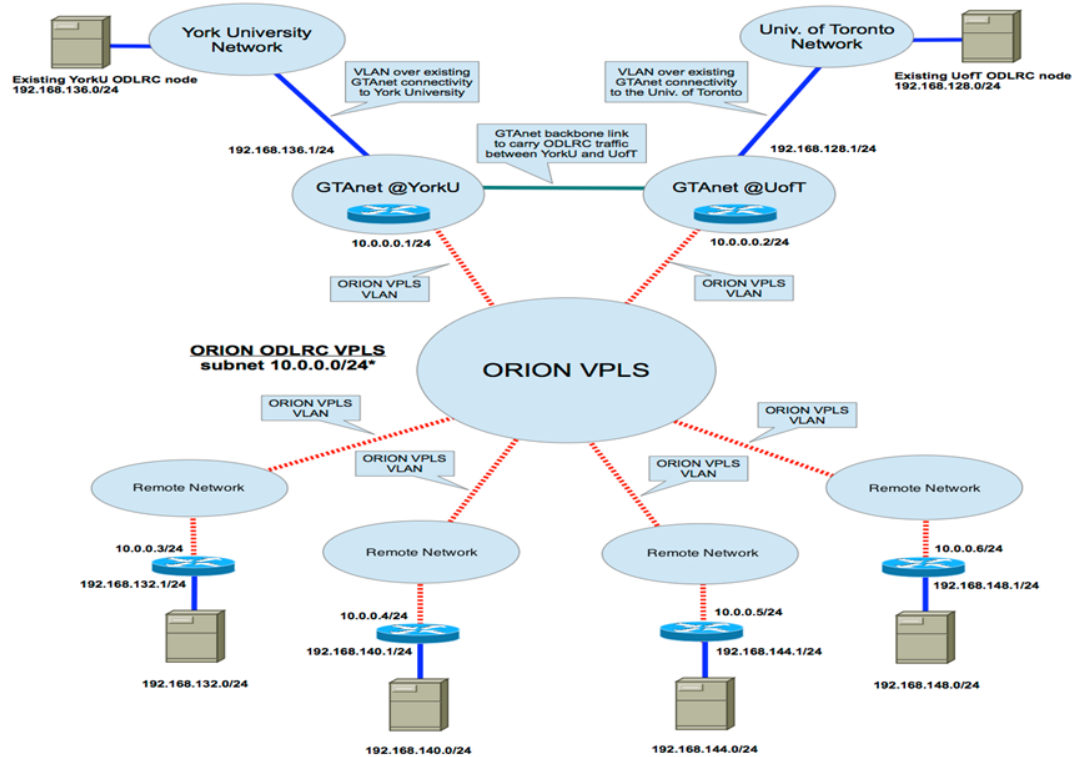|	
Carleton	Toronto
Guelph	Waterloo
Laurier	Windsor
McMaster	York
Ottawa	

how is it built?

- main node: U of Toronto
- distributed nodes: four total
- software layer manages files between zones (OpenStack Swift)
- leverages ORION bandwidth - VLAN

how does it work?

what does it look like?

multiple purposes

OLRC is the underlying storage layer

services layered on top of it, each potentially individually branded, e.g.- Permafrost

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current state

hardware arrived earlier this year

GTA testing round

node selection finalization = more hardware installs

governance

currently

    admin committee (U of T / SP)

    steering committee

    technical advisory committee

working on service agreements, MoU, etc.

building the tools

develop / adapt software tools

connect to existing repositories

June 2014 - first ODLRC Hackfest

future tasks and directions

install remaining nodes

beta testing

develop end-user tools

repository integration

text mining features

info and credits

more info:

https://spotdocs.scholarsportal.info/display/ODLRC

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