



Shared IT Services for Higher Education & Research

Conference 2017



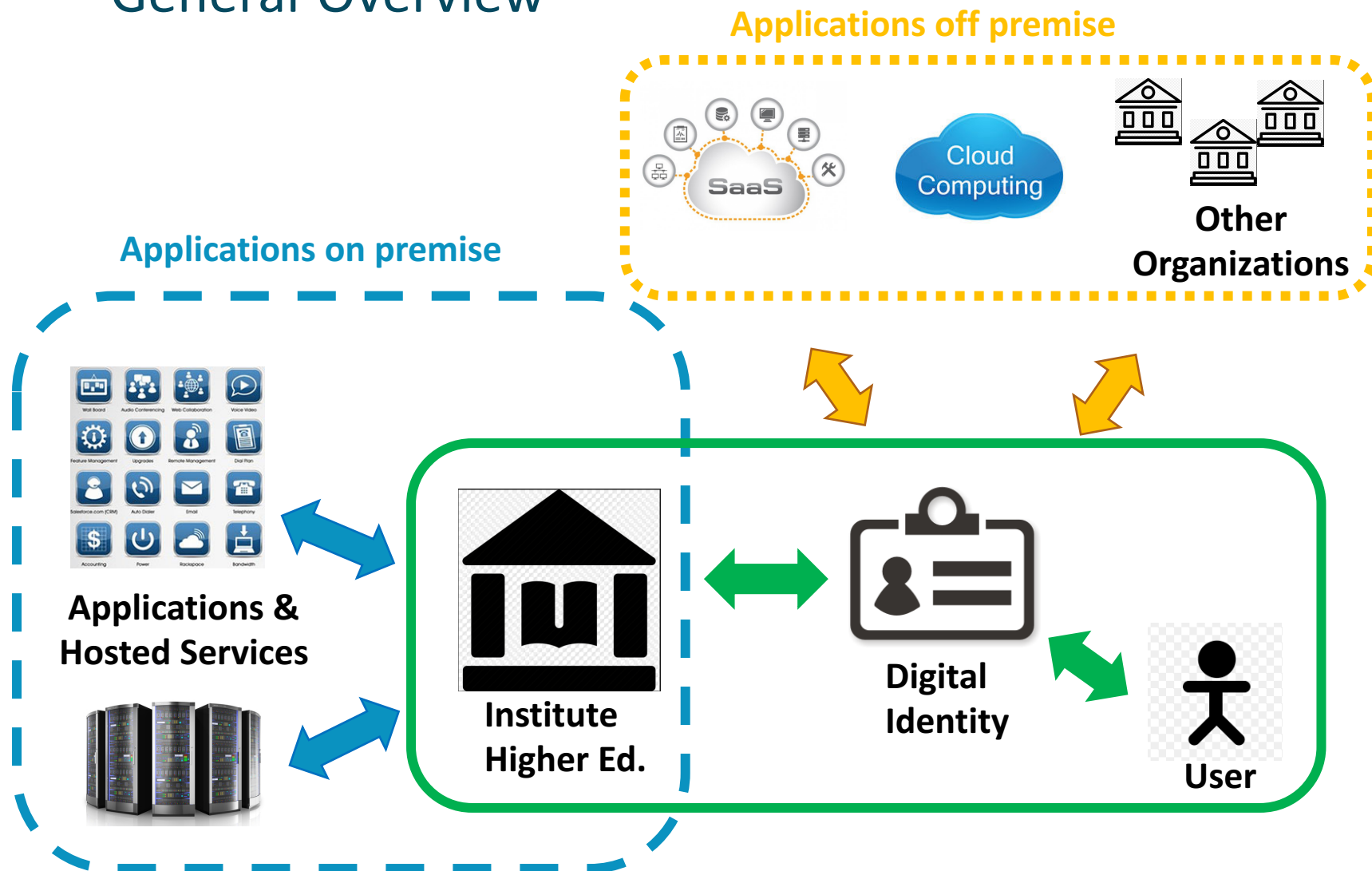
Identity Management and Service Integration in Higher Education

BCNet Identity Management Working
Group

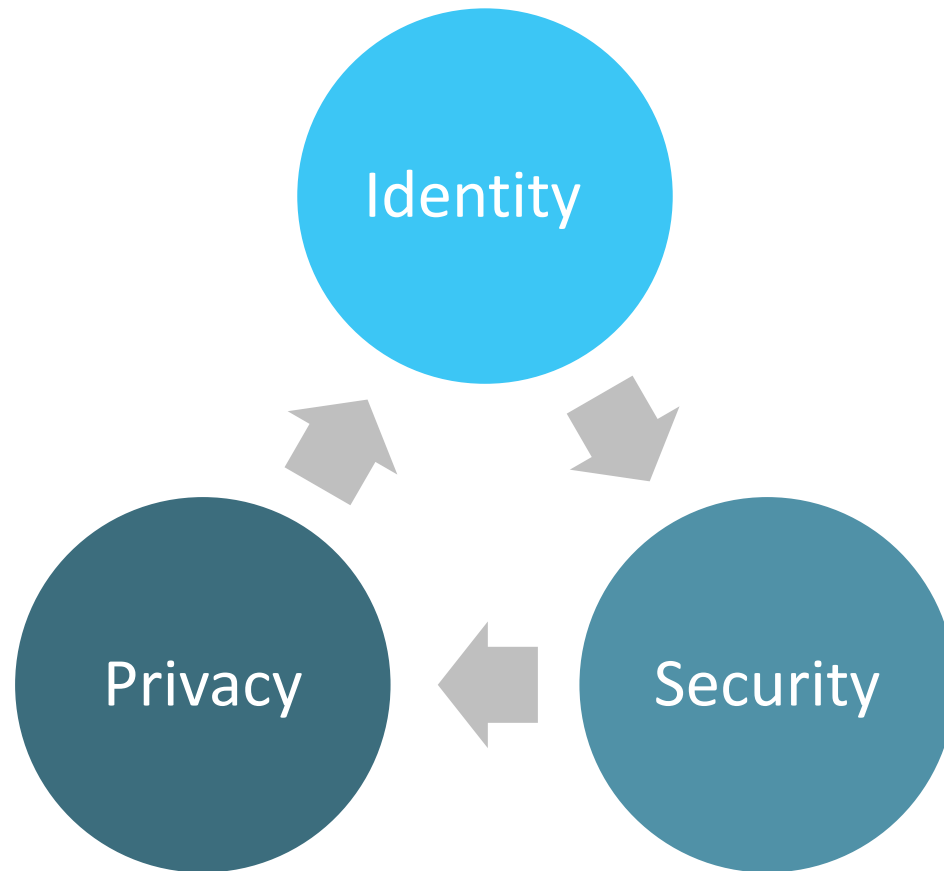
Speakers:

- Corey Scholefield | BCNet EduTrust, UVic
- Keir Novik | SFU
- Andy Zoltay | RRU
- Rahim Virani | KPU
- Sebastian Gonzalez | UBC
- Sabrina da Silva | BCIT

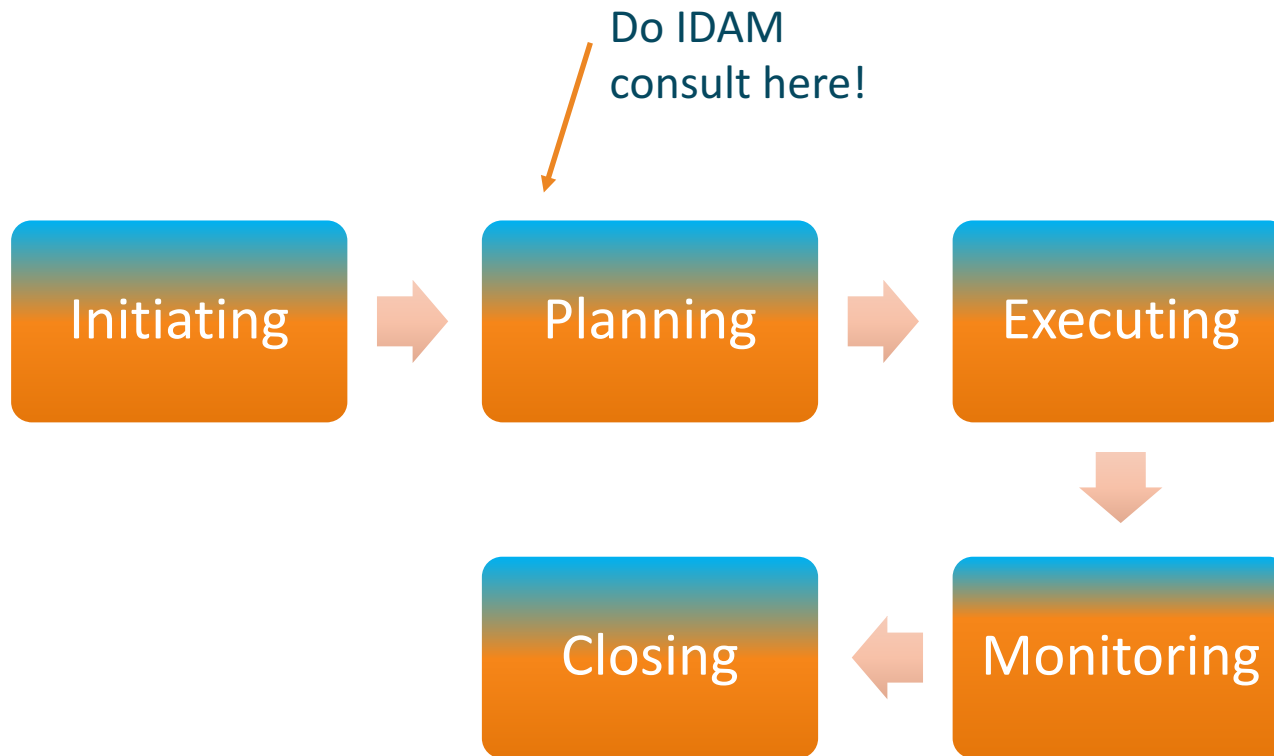
General Overview



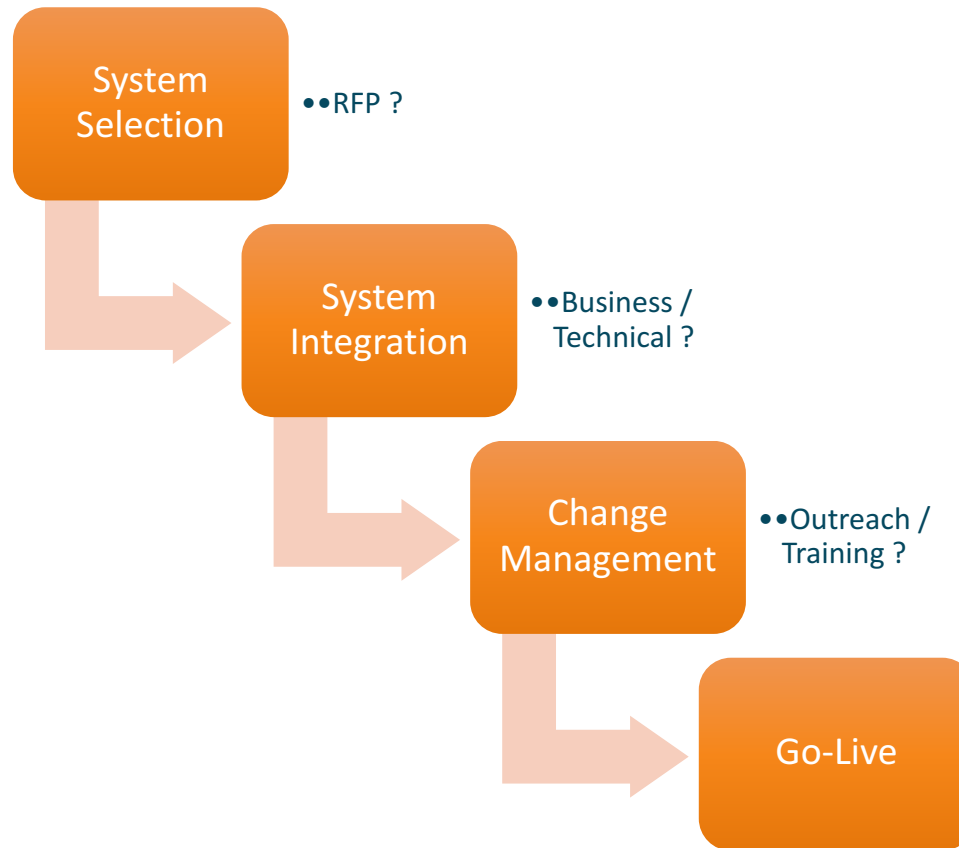
Identity & Access - Planning Context



Identity and Access - Planning + Project Process



Services Integration Phases



Identity and Access - Planning Alphabet

- authentication
- authorization
- accounts Provisioning
- accounts De-provisioning

*Thanks to Luca Filipozzi and Doug Gregg (UBC)

Identity and Access - Planning Alphabet

- authentication
 - Campus options vs. system capability
- authorization
 - Permissions assignment – roles / groups / local vs. centralized
- accounts Provisioning
 - Business Process ? Just-in-case vs. Just-in-time ?
- accounts De-provisioning
 - Disable / timeline / retention / ongoing-access / grace-period ?


BC EduTrust Federated Services - Updates

- Goals
- every BCNET member:
 - runs eduroam WiFi service
 - runs federated SSO Identity Provider (IdP) in the Canadian Access Federation
 - support BCNET IT Shared Services adoption

BC EduTrust - CAF Community Group



BC EduTrust / CAF / BCcampus - Federated Wordpress



Username or Email Address

Password

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University of Victoria
Canada

CAF Guest IdP — If you do not have an institutional account, register here.

Cybera
Canada

Polytechnique Montréal
Canada

Royal Roads University
Canada

Simon Fraser University
Canada

Thompson Rivers University
Canada


University of Alberta
Canada

University of Toronto
Canada

CANARIE Inc.
Canada 3577 km

or search for a provider, such as Example University

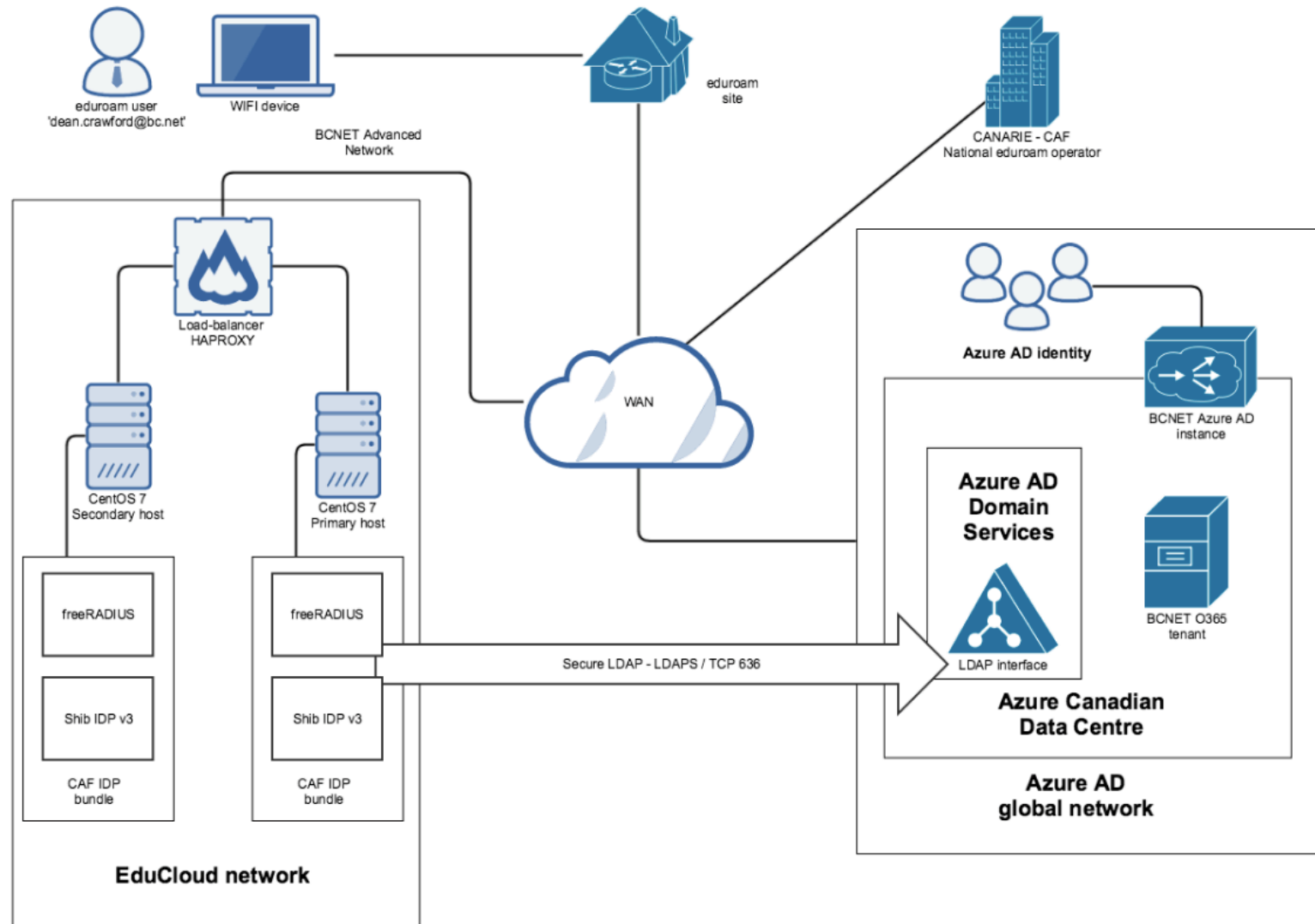
► Please help, I cannot find my provider

 Locate me and show nearby providers

Show providers in

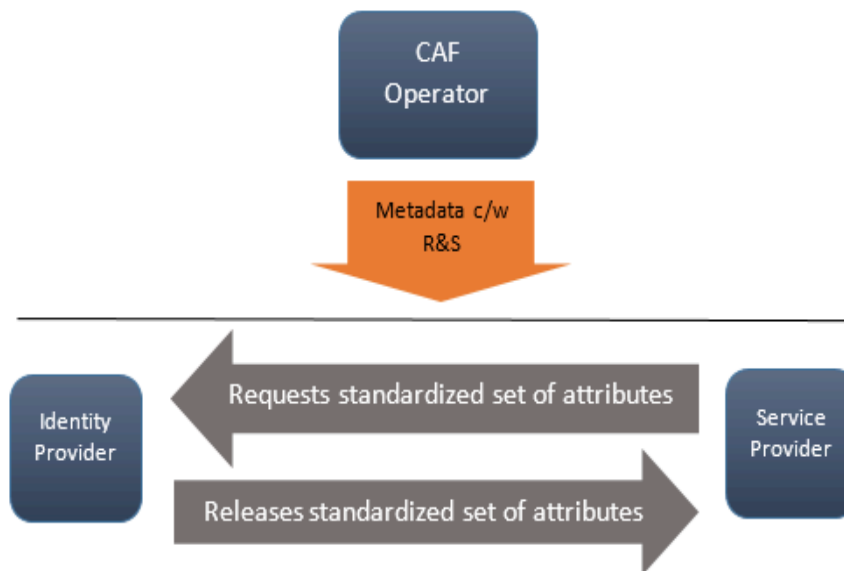
DiscoJuice © UNINETT ⓘ

BC EduTrust - eduroam for @bc.net accounts on Azure AD



How Does the R&S Entity Category Work?

As the operator of the identity federation in Canada, CAF distributes metadata indicating which entities support the R&S Entity Category. Using this information, IdPs and SPs recognize each other as being part of the research and education community and as thus trustworthy for exchange of a basic, standardized set of attributes.



<https://www.canarie.ca/identity/support/research-and-scholarship-entity-category/>

BC EduTrust - Education Planner (phase 3)

BRITISH COLUMBIA EducationPlannerBC

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















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| | |
|--|---|
|  British Columbia Institute of Technology |  Camosun College |
|  Capilano University |  College of New Caledonia |
|  College of the Rockies |  Douglas College |
|  Emily Carr University of Art and Design |  Justice Institute of British Columbia |
|  Kwantlen Polytechnic University |  Langara College |
|  Nicola Valley Institute of Technology |  North Island College |
|  Northern Lights College |  Northwest Community College |
|  Okanagan College |  Royal Roads University |
|  Selkirk College |  Simon Fraser University |
|  Thompson Rivers University |  University of British Columbia |
|  University of Northern B.C. |  University of the Fraser Valley |
|  University of Victoria |  Vancouver Community College |
|  Vancouver Island University | |

Private Institutions

The following private institutions are authorized to operate in BC under the Degree Authorization Act, but do not receive government funding. They are distinct from public institutions.

| | |
|---|---|
|  Acenda School of Management |  Alexander College |
|---|---|

Royal Roads University

- Strategies

- Consolidating identities into a single repository with multiple roles
- Move towards central authentication
- Streamlining account provisioning synchronization

- Challenges

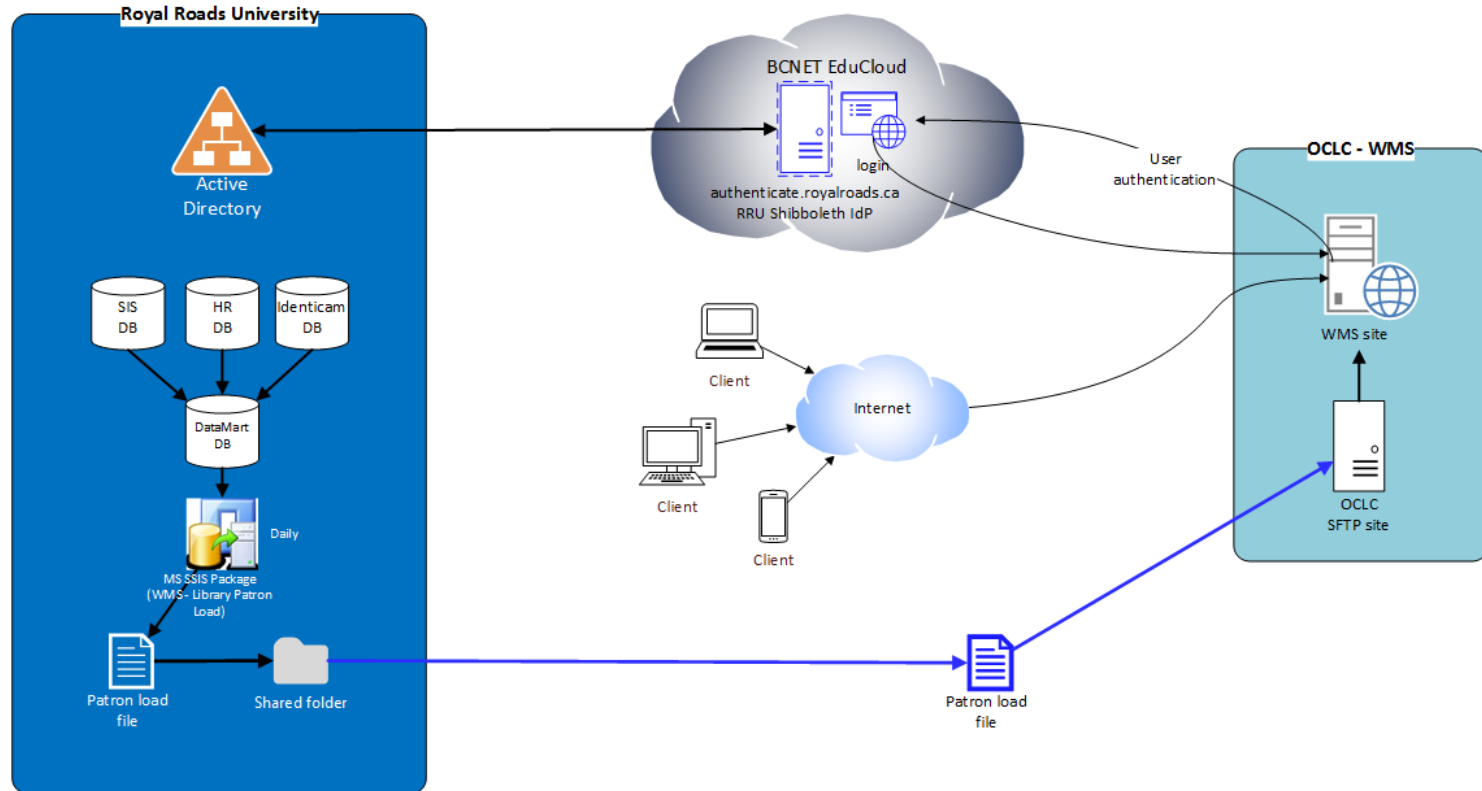
- Shibboleth is complicated and has a steep learning curve
- Each service provider implementation has proven slightly different or non-standard
 - e.g. use of the “unspecified” format
 - e.g. Shibboleth vs ADFS
- Shibboleth versioning differences has caused challenges
 - i.e. Version 3 of IdP and version 2 of SP

Royal Roads University

- Newly on-boarded off-premise services:
 - WorldShare Management Services (Library system)
 - WebSpace (WPCloud)
 - Lynda.com
 - HRSmart

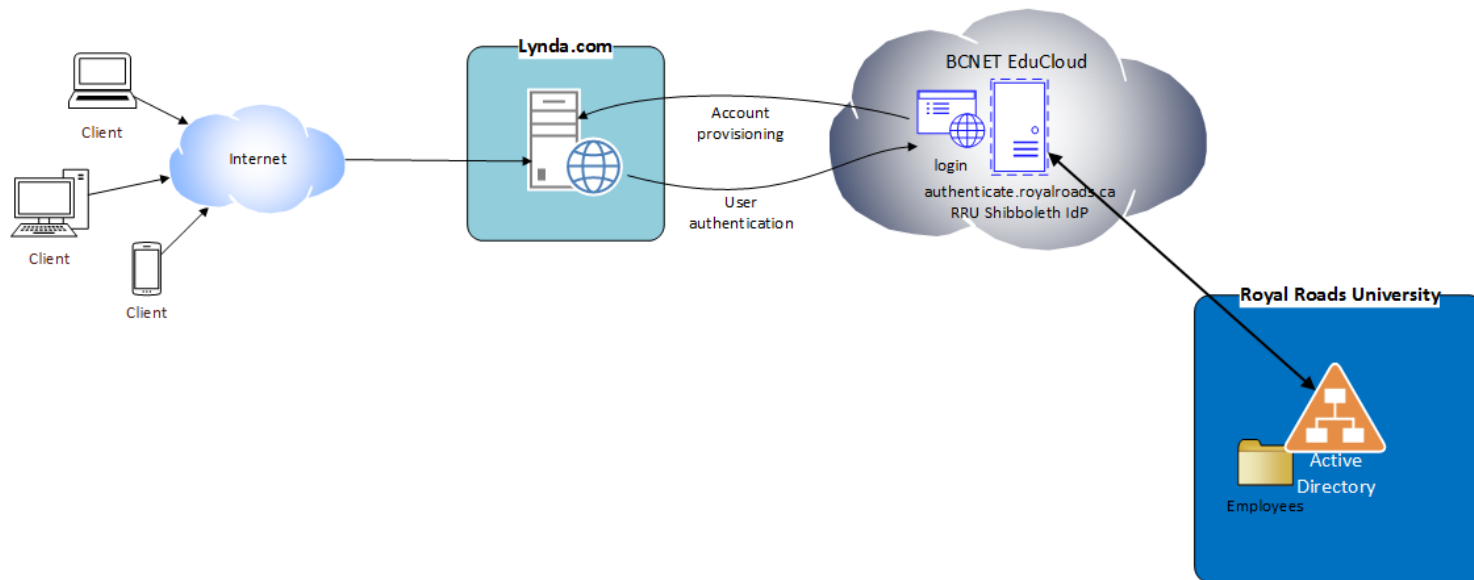
Royal Roads University

WMS Identity Management Architecture
(Just in case account provisioning)



Royal Roads University

Lynda.com Identity Management Architecture (Just in time provisioning)



Andy Zoltay
2017-04-20

IDAM - KPU strategies

- User Experience (UX) driven
- Minimize security footprint
- IaaS and SaaS (“Cloud-enabled”)

IDAM Struggles

- Exceptions to calculated roles and definitions (vendors, visiting scholars, recruiters etc.)
- Single identity, multiple role vs. multiple identity, multiple role service mapping
- Creative account access workflows
- Federated Identity knowledge barrier of entry
- Some applications just don't support Single/SameSignon

IDAM Accomplishments

- Simple architecture, no heavy ETL and staging processes as well as data processing overhead.
- Future ready:
 - Directory Consolidation
 - SSO onboarding
 - Banner XE
- In process of onboarding most popular candidates to SSO (Self-Service, Learning Management System, Navigation Portal, SharePoint, Office 365 etc..)*

Current State



Central Authentication System (CAS)



Active Directory Federation Services (ADFS)



Wordpress



UPASS



UPSwing



Regroup



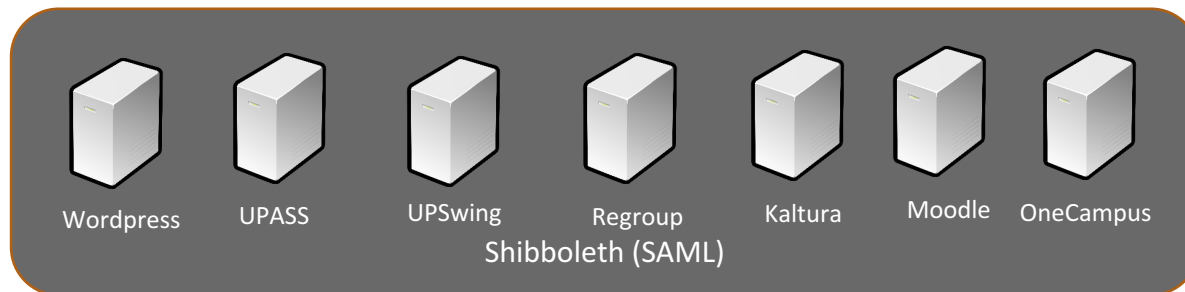
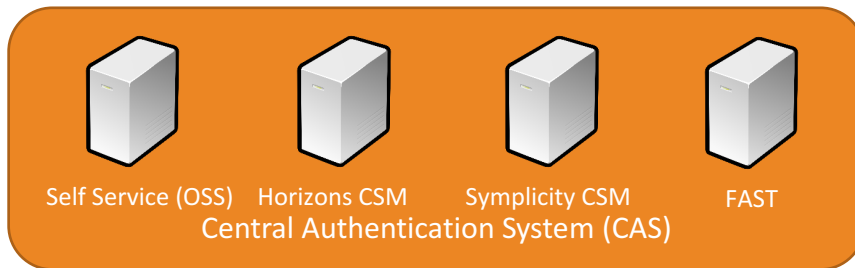
Shibboleth (SAML)



Kaltura



Future State



High Level Metrics - KPU

| | |
|---|-----|
| Total Applications | 60 |
| Total Applications Off Premise | 25% |
| Supporting SSO (Single and Same SignOn) | 50% |
| Single SignOn Implemented | 10% |
| Same SignOn Implemented | 80% |

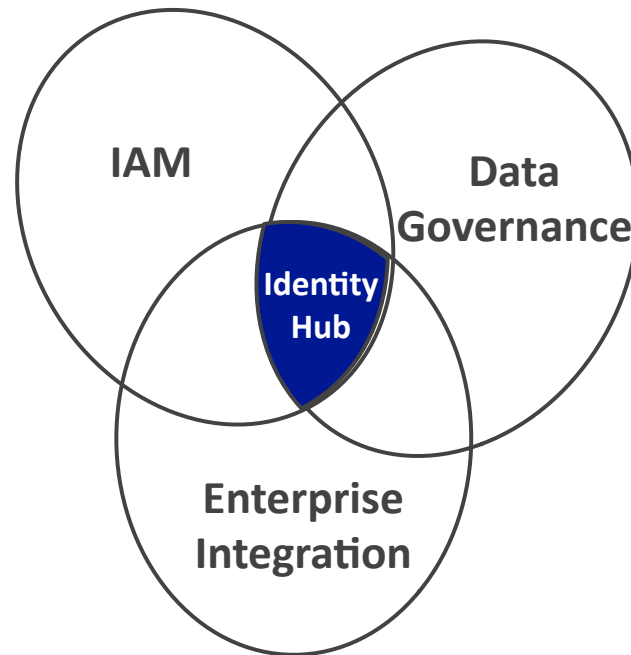
Simon Fraser University

- Strategies
 - Be principally a provider of cloud services
 - Use cloud services with maximum value while minimizing risk
 - Single sign-on through CAS
 - Federated identity through CAF
- Struggles
 - Preserving privacy
 - Value proposition of IDAM
- Accomplishments
 - Compute Canada ARC site at SFU
 - SFU Vault

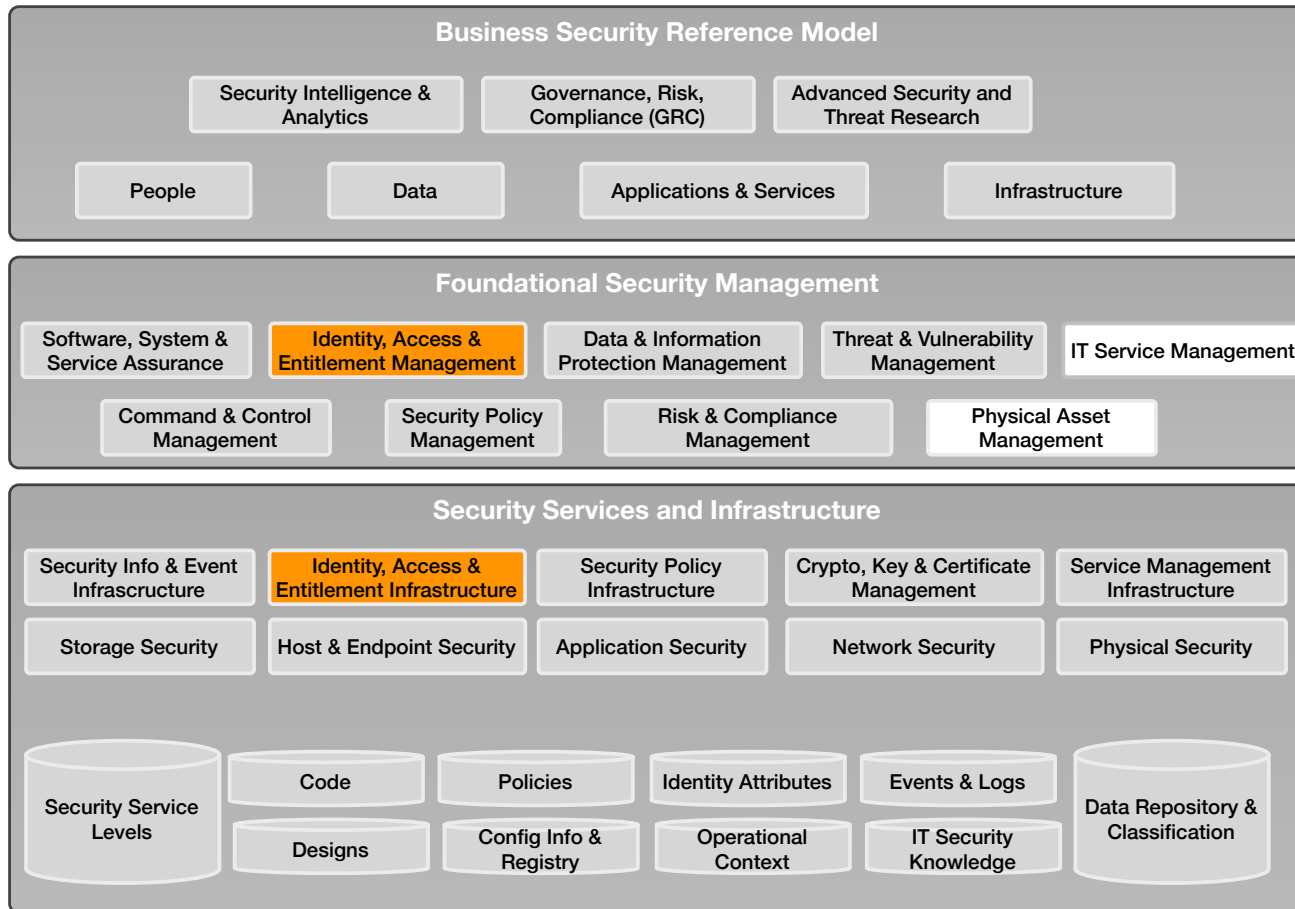
UBC

- IAM as an integrator for ERP renewal (Cloud Landscape)
- IAM Realignment
 - Office of CIO under the CISO portfolio
- Transitioning from an Infrastructure Dept. with a Security component to a Security Discipline with Infrastructure Responsibilities.
- Heavy lifting into the cloud.

IAM as an integrator for ERP renewal (Changing Cloud Landscape)



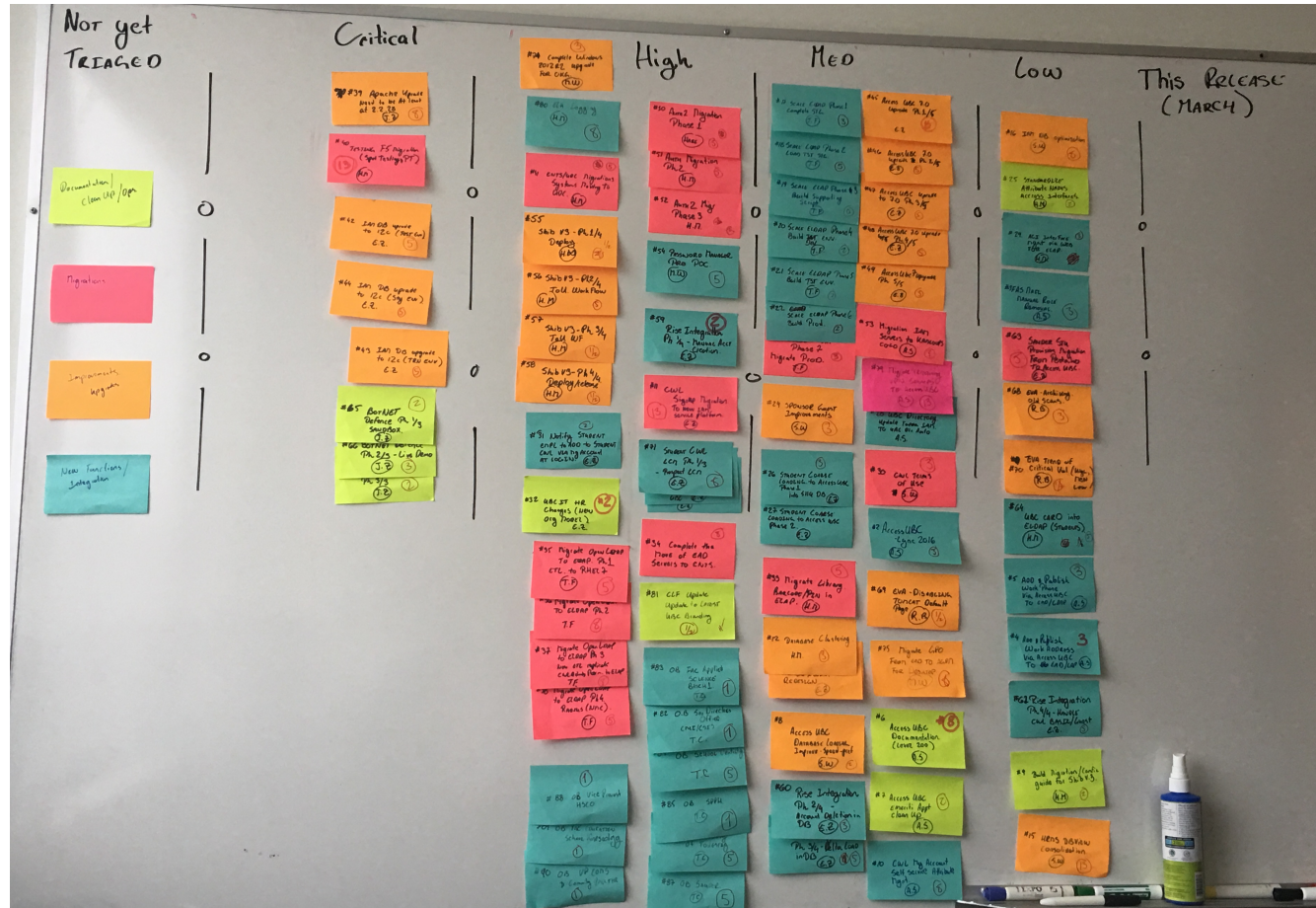
IAM Realignment



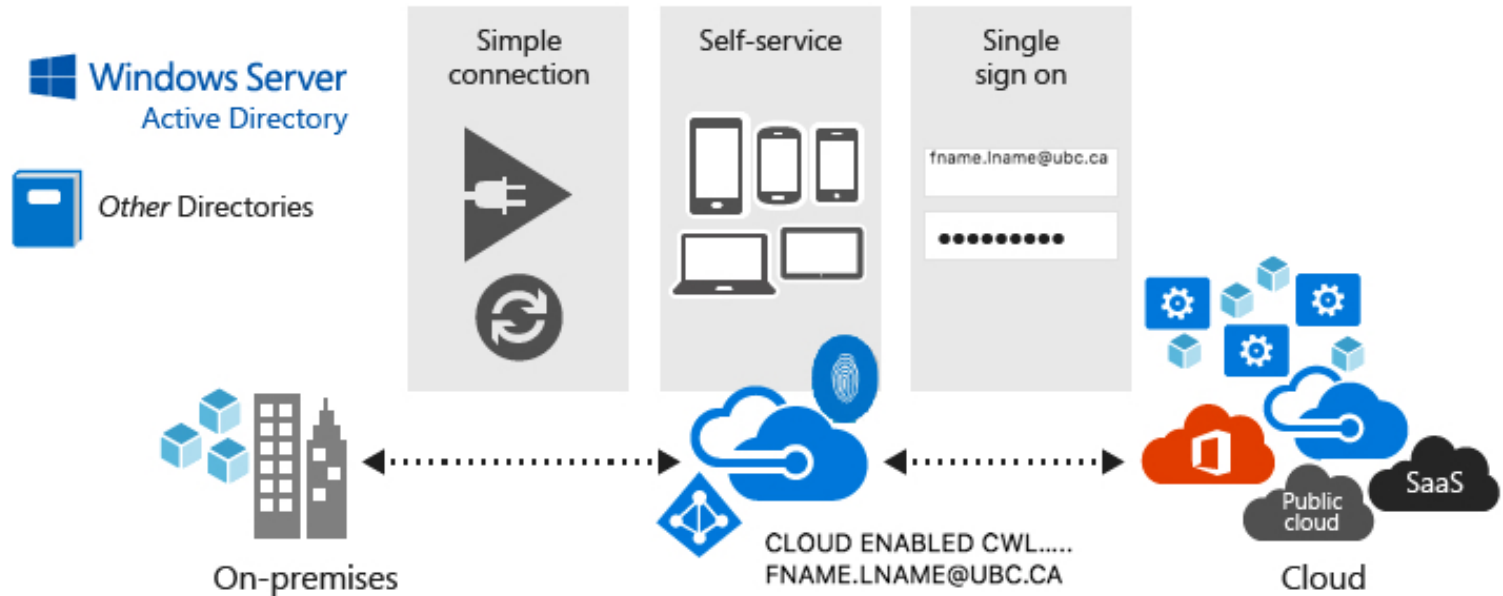
Transitioning from an Infrastructure Dept. with a Security component to a Security Discipline with Infrastructure Responsibilities.



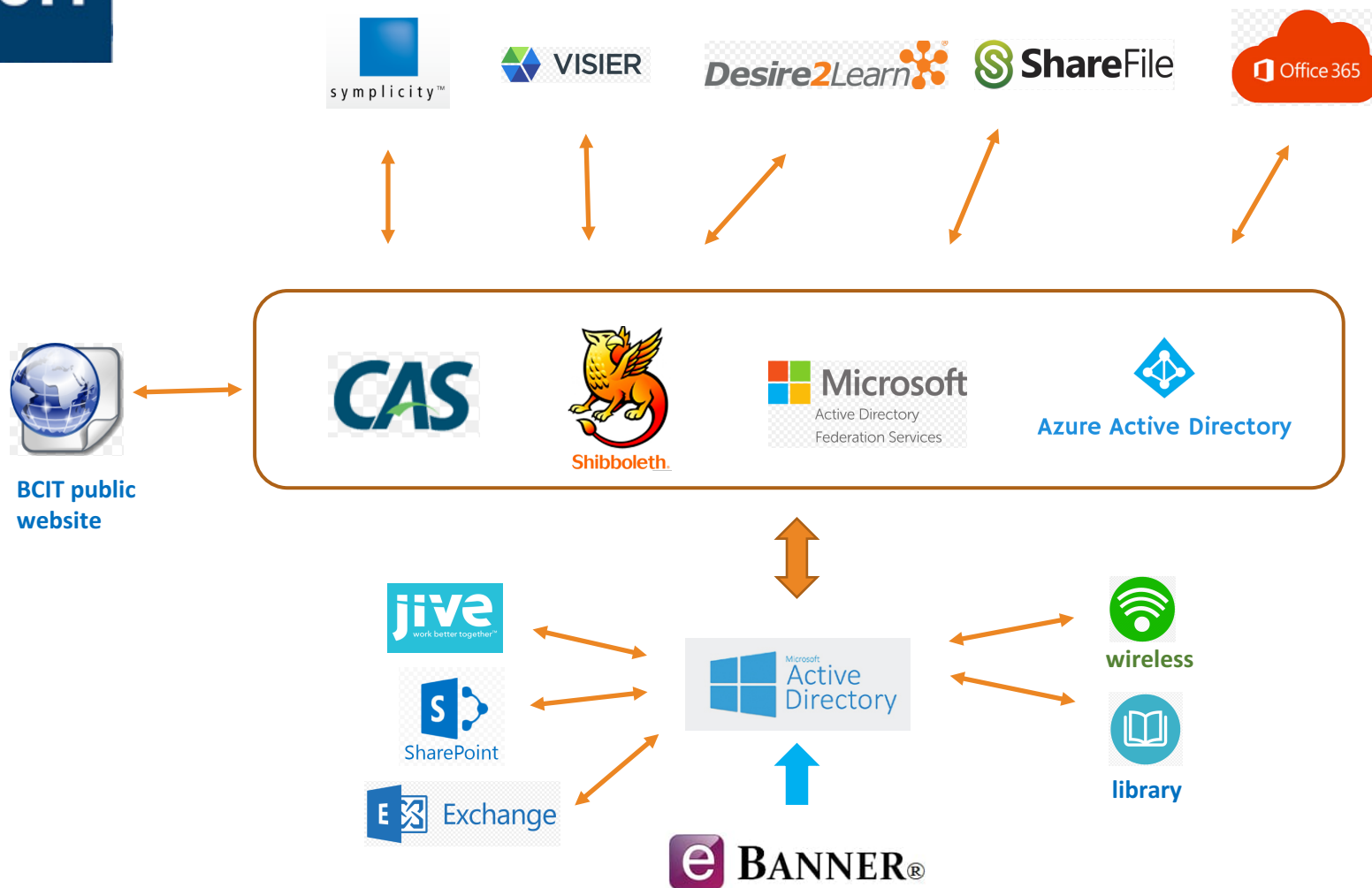
Payment Plan on “Technical Debt”



Heavy lifting into the cloud



Integration of Services and Applications



Integration of Services and Applications

- Strategies
 - Enhance user experience
 - Simplification and optimization of services
- Struggles:
 - Preserving privacy
 - IDAM road map
- Accomplishments
 - Onboarding new services
 - Consolidating services

Questions