# UH Applications Developers Meeting 2/10/2012

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# Agenda

- Poll: UH Developers listserv list
- Update: Quick status update
- Poll: Determine boot camp interest
- Presentation: Using LDAP and SASL
- Factoid: UH Number / UH Username
- Factoid: OID Assignments
- Presentation: LDAP changes

• Poll:

UH Developers listserv list

Establish an online forum for UH Developers?

### Update:

Quick status update for previously mentioned projects:

- UHIMS Grouper
- UHIMS Events
- ACER
- LDAP Pruning

- UHIMS Grouper
  - In Production for the targeted Daily Termination Reports
    - ITS and UHM Parking Office currently, others planed
    - Grouper audit logs proving useful for IT audits
  - Automatic groups not yet ready
  - Grouper CASification planned
  - Grouper upgrade to a current release is planned
    - GUI support for custom attributes
  - Boot camps anyone?
  - Why is it important to UH Developers?
    - RBAC!!! When authentication is not enough!

- UHIMS Events
  - UHIMS Messaging standards implemented
  - White Pages Management System incorporated
  - Will be used to publish events for consumption by the Kuali Financials
  - High Availability infrastructure will be in Production before end of month (Feb 2012)
  - Why is it important to UH Developers?
    - RBAC!!! When authentication is not enough!

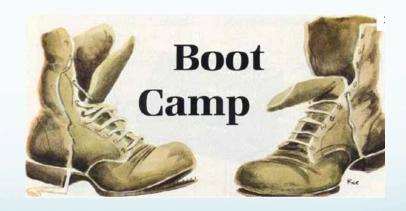
- ACER Acknowledgements and Certifications
  - Prototype to be completed by end of Feb 2012
  - Pilots to include:
    - General Confidentiality Notice
    - UH Information Security Awareness Training
    - ACER RBAC in UHIMC
  - Why is it important to UH Developers?
    - RBAC!!! When authentication is not enough!

- LDAP Pruning
  - Planned for the upcoming LDAP project
  - Gotcha for us to track: developer expectations that LDAP holds the entire list of UH Numbers and Usernames.
    - If this is useful, an alternative strategy, such as a web service would be considered.



### Poll:

Determine interest in hands-on UHIMS Events and UHIMS Grouper boot camps



#### Presentation:

Using LDAP (AuthZ) and SASL (AuthN) for passthrough authentication to control lab computers access

Factoid:

UH Number or UH Username, which is the recommended unique identifier for applications?

(spoiler alert, the numeric one)

### Factoid:

Coordinating OID (object identifier) Requests and Assignments for the UH Developer Community by providing:

- OID Preassingments
  - UH is assigned 1.3.6.1.4.2160 by IANA
  - Honolulu; 1.3.6.1.4.2160.63 by ITS
- Process for registering Campus OIDs
- Central repository of OID assignments
  - https://www.hawaii.edu/bwiki/display/UHIAM

Presentation:

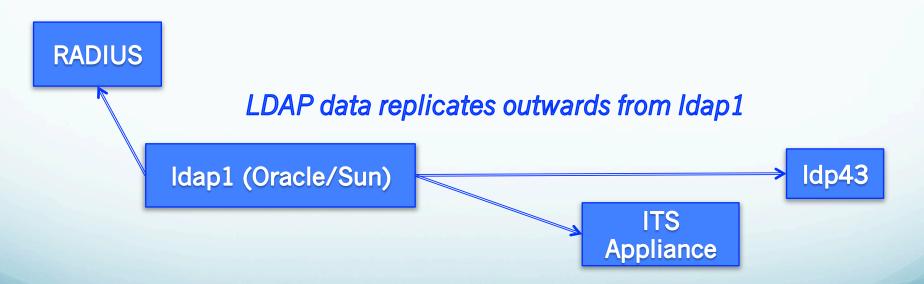
Planned LDAP infrastructure changes to enhance availability and scalability

# LDAP Infrastructure and Authentication

# LDAP to become: More robust More secure More scalable

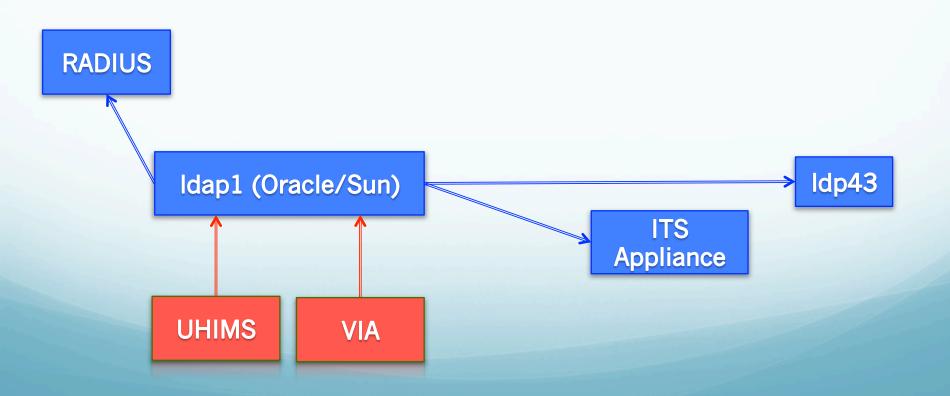
### **Backend Authentication Components**

- RADIUS redundant infrastructure for High Availability
- LDAP very redundant infrastructure for High Availability
- ITS Appliance replicates LDAP outside the UH data center

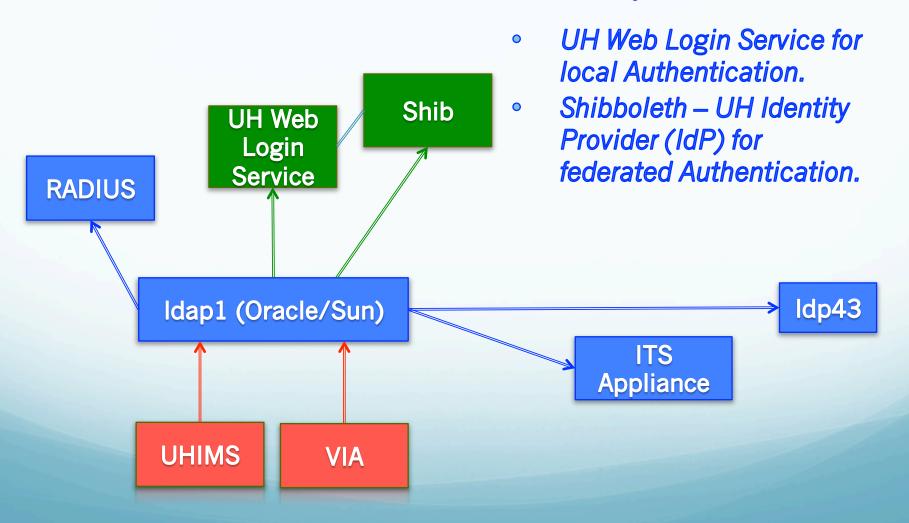


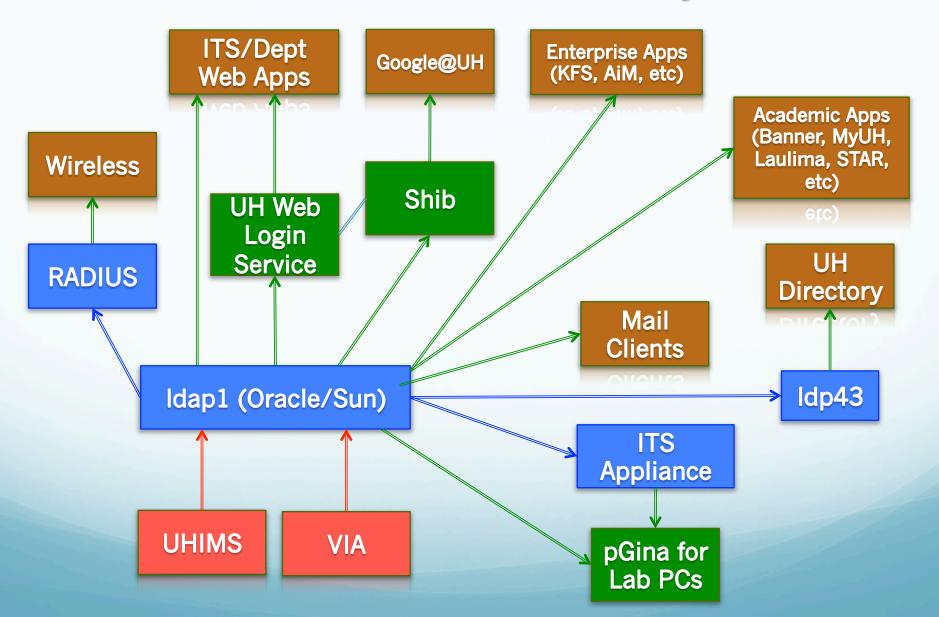
### Identity and Access Management Components

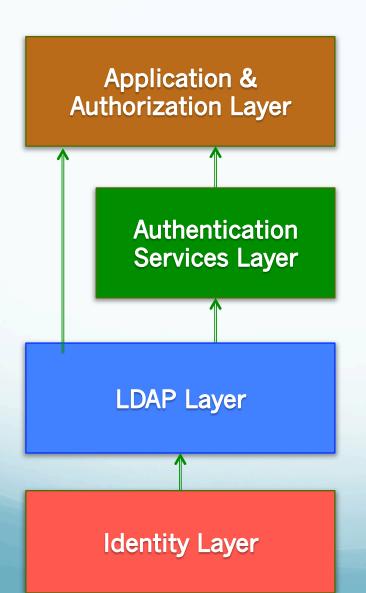
- VIA adds transient Visitor accounts to LDAP
- UHIMS adds anyone associated with UH to LDAP

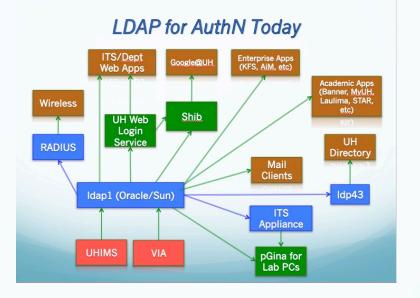


### Centralized Authentication Components



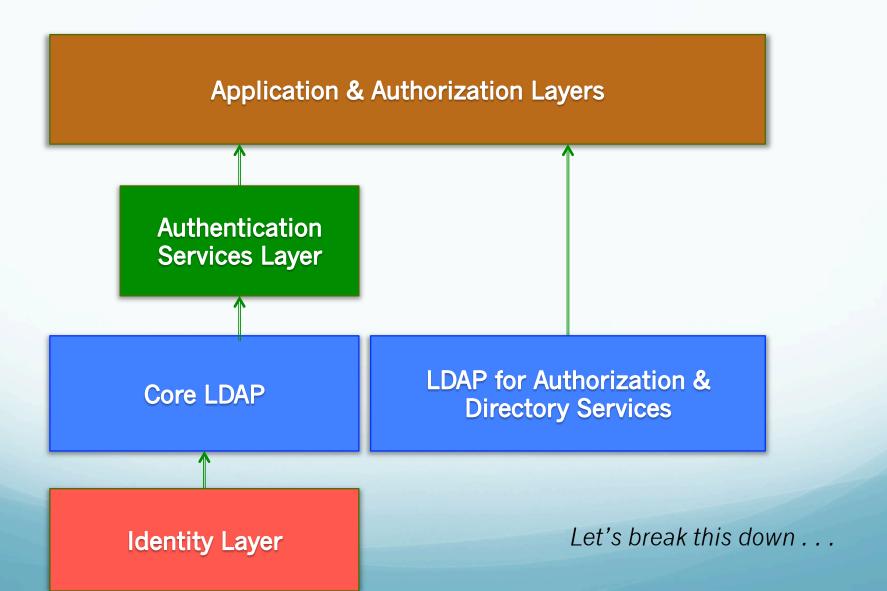


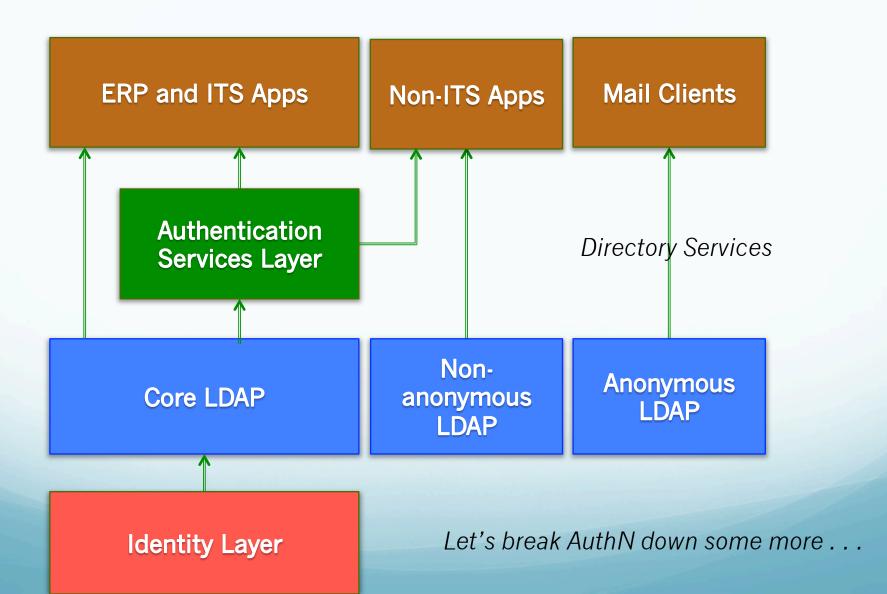


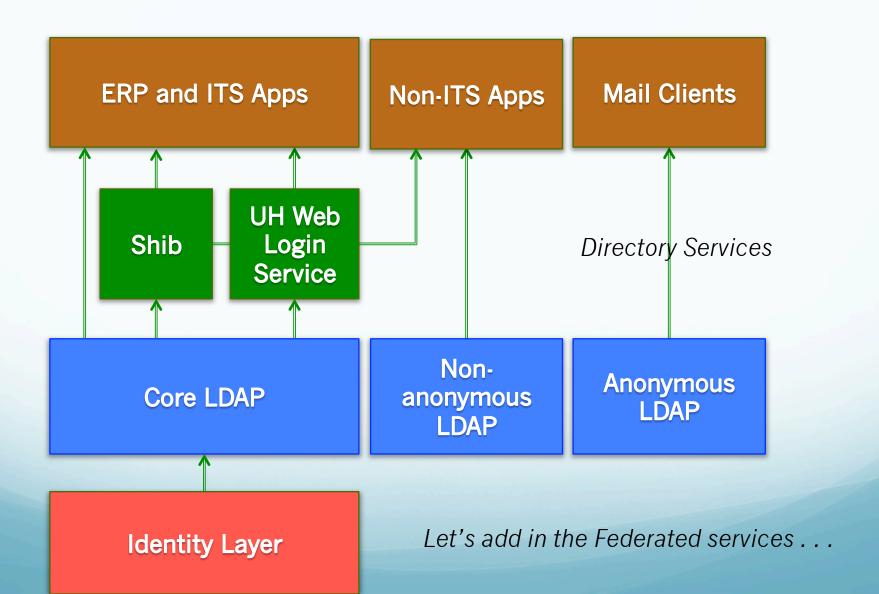


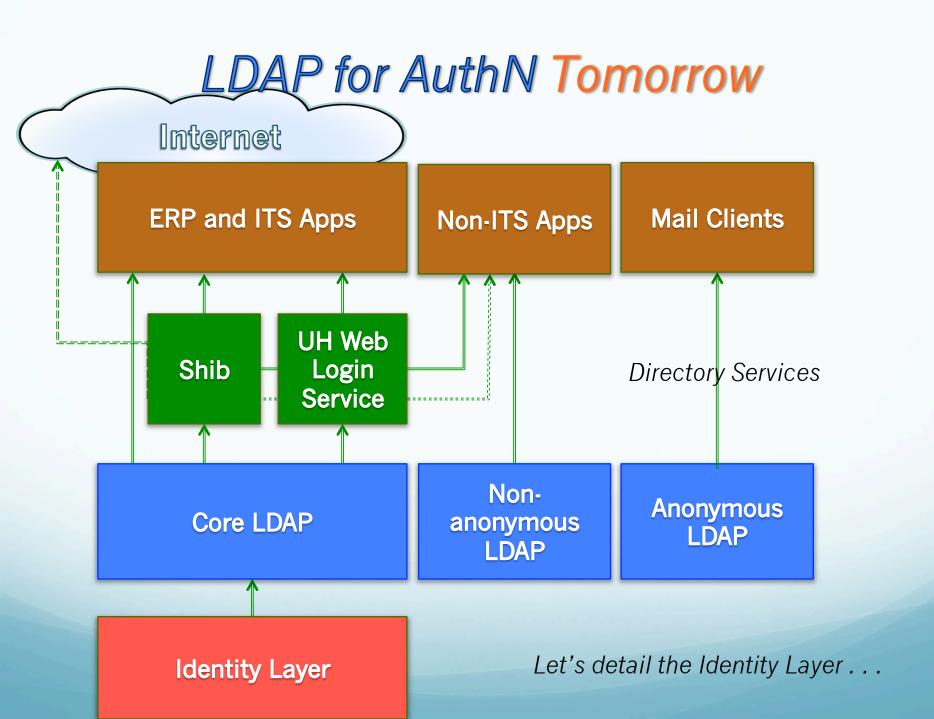
#### **LIMITATIONS:**

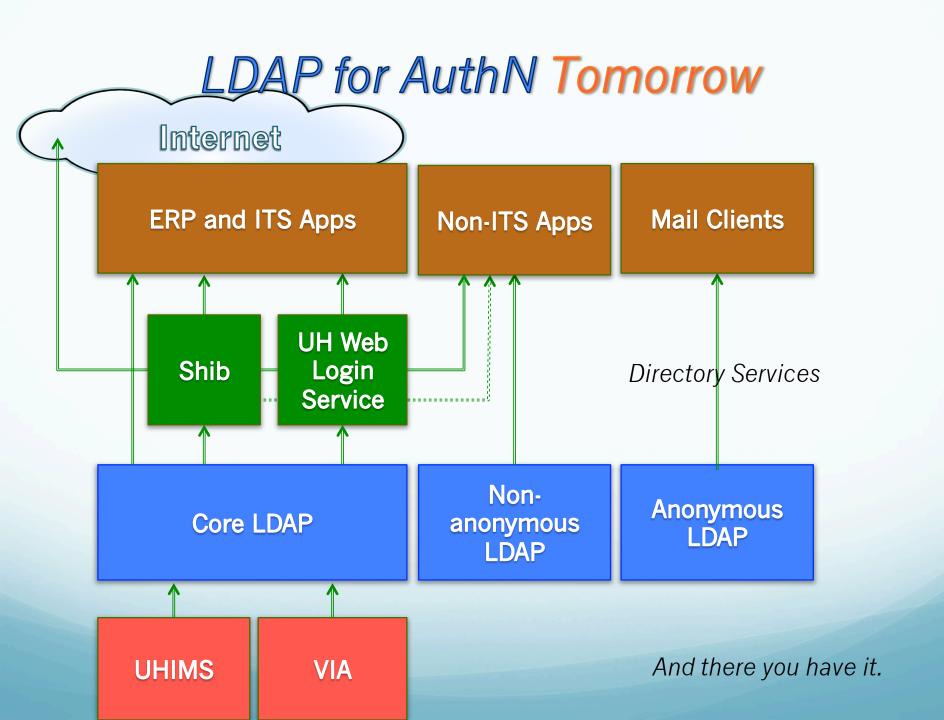
- Subject to performance issues.
- Doesn't isolate core AuthN and Directory Services.
- Doesn't allow for additional finetuning of security.

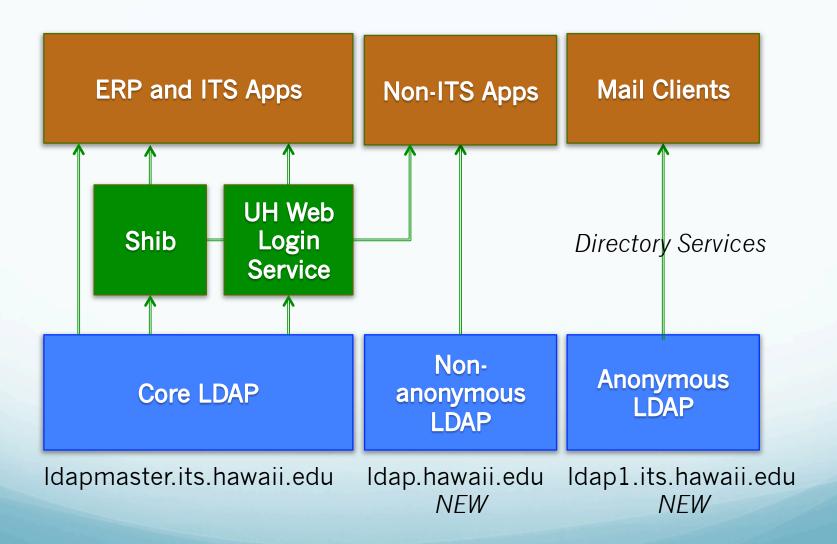


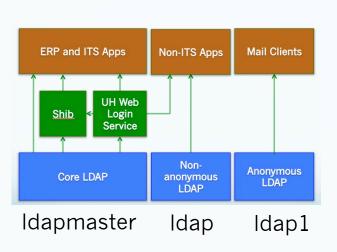












- Idap1 remains the same; many mail clients point to it.
- We will monitor Idap1 to determine which applications need to move to Idap.hawaii.edu and register.
- Eventually we would like to require mail clients to also authenticate against Idap1 so that we can disallow anonymous.
- ITS is also replacing Oracle Enterprise LDAP servers with 389ds open-source servers; Idapmaster will be first.
- UH developers will have time, but need to plan for migrating LDAP references to Idap.hawaii.edu.
- UH developers will be provided with a test LDAP environment;
   date to be determined.

Questions?

Disclaimer: "tomorrow" is not meant to be taken literally in these slides.

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https://www.hawaii.edu/bwiki/display/UHIAM https://www.hawaii.edu/bwiki/display/UHIAM/UH+Applications+Developers

