

Grouper in Action: Access Management Strategies for Higher Education and Research Tutorial

[2017 TechX Grouper Training Survey](#)

<https://meetings.internet2.edu/2017-technology-exchange/program-guide/tutorials/#Grouper>

Grouper is an enterprise access management system built by and for higher education, and is a key component of the Trust and Identity in Education and Research (TIER) initiative. Designed for highly distributed and heterogeneous information technology environments, Grouper is uniquely suited to address the complexity and flexibility required by the modern institution.

This tutorial will explore the latest Grouper release, demonstrate a variety of real world use cases, and review the recently released TIER Grouper Deployment Guide. The deployment guide aims to distill diverse community examples into specific TIER guidance and recommendation for achieving a variety of identity and access management capabilities. Come learn and see what Grouper can do for your campus and join the growing community of practice!

Grouper in Action: Access Management Strategies for Higher Education and Research Tutorial

Sunday, October 15

8:00am-12:00pm

Pacific E on Pacific Concourse Level

Room Set: 50/Classroom – Podium

AV: Projector Package – Podium Mic - Audience Mic – Access to Power for Attendees – Power at Podium

Wireless Internet Access (no hard drops requested)

F&B: 10:00-10:30am - Morning Break: Beverages will be served in the Foyer on the Pacific Concourse Level and will be shared by all morning tutorials.

IMPORTANT NOTE: Please plan your agenda so the group breaks at this time. It will only be available for that 30 minutes.

Mailing List: groupertutorial-2017-10@internet2.edu

8am - 12pm (4 hours)

- 8-10 (2h)
- 10:00 - 10:30 (.5hr break)
- 10:30 - 12:00 (1.5hr)

8:00 - 8:05 Introduction - Bill ~5

8:05 - 9:05 Grouper features, capabilities, etc - Chris ~60

9:05 - 10:00 TIER Grouper Deployment Guide - Bill ~40

10:00 - 10:30 Morning Break - Beverages will be served in the Foyer on the Pacific Concourse

10:30 - 11:15 Grouper @ Lafayette - Carl ~40

11:15 - 11:45 Grouper @ Georgia Tech - Bert ~40

11:45 - 12:00 Open Q&A - All ~20

12:00 - 12:00 Close - Bill ~2

Introduction - Bill ~5

Welcome/Thank you

Agenda

Objectives (session questionnaire)

Logistics

Grouper core features, new capabilities, 2.4 release - Chris ~60

New Capabilities

- messaging

Hands-on Lab?

- Subject API
 - Considerations, options, recommended config
- Loader Jobs
 - Sql, Idap
- Grouper Permissions
 - Inherited perms, grouper admin
- Monitoring and Logging
 - Grouper logs, db log tables, how to tune logging

Break ~10

Grouper Deployment Guide - Bill ~40

Introduction/Rationale

Grouper's Place in TIER-based architecture (Lafayette diagram?)

Purpose, Scope, Document Structure

Notes on Terminology

Understanding Grouper

TIER folder and group design

Subject Attribute Groups (reference groups)

Authorization Groups

Account Groups

Access Control Models

Access Control Model 1 - Grouper Subject Attributes

Access Control Model 2 - Grouper as PAP and PDP

Access Control Model 3 - RBAC User to Role Mapping

Access Control Model 4 - WebSSO Short-circuit

Distributed Access Control Management

Application Permission Management - RBAC w/ Grouper

Grouper in Action @ Lafayette - Carl ~40

Folder and Group Design

Basis and Reference Groups

Bundle Groups

Lifecycle Groups

Grouper Permissions Model

Python scripts

Lafayette grouper github

Access Control Models examples

ACM1 - library access to special collections - eduPersonEntitlement

ACM2 - VPN example - authorization groups

ACM3 - Cognos example. Board effect.

ACM4 - none at lafayette.

RabbitMQ provisioning engine

Loosely coupled

Ldap, shell/ssh, "rest" web api

OPenLDAP, Moodle, o365 graph api,...

Break ~10

Grouper in Action @ Georgia Institution of Technology - Bert ~40

PSPNG

Open Q&A - All ~20

Close - Bill ~2