

# Documents & Presentations

<a href="#">Wiki Home</a>	<a href="#">Download Grouper</a>	<a href="#">Grouper Guides</a>	<a href="#">Community Contributions</a>	<a href="#">Developer Resources</a>	<a href="#">Deployment Guide</a>
---------------------------	----------------------------------	--------------------------------	---	-------------------------------------	----------------------------------

- [Adding a WG Member Document or Presentation](#)
- [WG Member \(and Community\) Presentations](#)
- [WG Archived Documents](#)
- [Early Foundational Documents on Directories and Groups](#)

## Adding a WG Member Document or Presentation

1. Insert a row at the top of the appropriate table (newer items at top, older items at bottom).
2. Attach your Document or Presentation. Or link to a file on another server.
3. Add your information!
4. *Note: You may link directly to an attachment of this page.*

## WG Member (and Community) Presentations

Note: To search by Speaker, please visit the Internet2 [Speakers Bureau](#).

PDF Slides

PPT Slides

	Presentation Title	Author / Editor	Author Home	Venue	Date	.HTML	.PDF	.PPT	.ODP	etc.
	Advance CAMP 2019 sessions on Grouper	various	various	2019 Internet2 TechEx New Orleans	Dec 12-13, 2019	<a href="#">Grouper Futures and Can Grouper be used to document access controls</a> <a href="#">Grouper Deployment Guide - What's Next</a> <a href="#">Grouper Designing Role Access in Hierarchy</a> <a href="#">Service Grace Periods in Grouper</a>				
	Provisioning and Access management: Case Studies with Grouper and COmanage	William Thompson Lafayette College, Laura Paglione Spherical Cow Group, Carey Black Ohio State U		2019 Internet2 TechEx New Orleans	Dec. 10, 2019		<a href="#">pdf</a>			
	Paranoid IAM: Process and Architecture	Mary McKee and Shilen Patel, Duke	Duke	2019 Internet2 TechEx New Orleans	Dec 12, 2019		<a href="#">pdf</a>			
	Grouper TechEx Fish of a Fin	Chris Hyzer Shilen Patel Chad Redman Bill Thompson	Penn Duke UNC LaFayette	2019 Internet2 TechEx New Orleans	Dec 11, 2019	<a href="#">Google doc</a>	<a href="#">pdf</a>			
	Grouper container in cloud	Keith Wessel Ethan Kromhout Erik Coleman Bill Thompson Chris Hyzer Chris Hubing	Illinois UNC Illinois LaFayette Penn Internet2	2019 Internet2 TechEx New Orleans	Dec 11, 2019	<a href="#">Google doc</a>	<a href="#">pdf</a>			

Grouper BaseCAMP session	Chris Hyzer Shilen Patel	Penn Duke	BaseCAMP in Milwaukee	August 15, 2019	Google doc: <a href="https://docs.google.com/presentation/d/1NtwzvoGV4ntVdUZh3-mVv_iZNHjBmPBZ1hDQPX0twVE/edit#slide=id.g55eac3c3200_0_225">https://docs.google.com/presentation/d/1NtwzvoGV4ntVdUZh3-mVv_iZNHjBmPBZ1hDQPX0twVE/edit#slide=id.g55eac3c3200_0_225</a>	pdf	pptx		
Grouper Training Materials	Chris Hyzer, Bill Thompson		InCommon Grouper School Series in Madison	June 2019	<a href="https://spaces.at.internet2.edu/x/IRjtBw">https://spaces.at.internet2.edu/x/IRjtBw</a>				
Grouper BOF	Chris Hyzer, Shilen Patel	Penn, Duke	2019 Global Summit in DC	March 6, 2019		2019 - Grouper BoF at Global Summit (PDF)	2019 Grouper BoF at Global Summit (PPT)		
Advance CAMP 2018 sessions on Grouper	various				Grouperfest Advance CAMP discussion  Grouper Deployment Guide v2 Advance CAMP discussion				
Latest Grouper recipes	Chris Hyzer Michael Gettes Chad Redman Chris Sutherin Bert Bee-Lindgren John Gasper Carl Waldbieser James Babb	Penn Florida UNC UMBC GA Tech Unicon Lafayette College Internet2	2018 Internet2 TechEx Orlando	Oct 17, 2018		2018 - TechEx Latest Grouper recipes.pdf	2018 - TechEx Latest Grouper recipes.pptx		Google slides
Grouper BoF	Chris Hyzer Bill Thompson Shilen Patel Bert Bee-Lindgren Chad Redman	Penn Lafayette Duke GA Tech UNC	2018 Internet2 TechEx Orlando	Oct 16, 2018		2018 - TechEx Grouper BoF.pdf	2018 - TechEx Grouper BoF.pptx		
TIER Access Governance with Grouper and Friends	Bill Thompson Carl Waldbieser James Babb Chris Hyzer	Lafayette Lafayette Internet2 Penn	2018 Internet2 TechEx Orlando	Oct 15, 2018	Grouper Training Environment	Grouper Basics 101 part 1 Grouper Basics 101 part 2 Grouper Basics 101 part 3 Grouper Security Model 211			
IAM Access Governance and Grouper 2.4	Bill Thompson Chris Hyzer	Lafayette (Bill); Penn (Chris)	IAM Online webinar	Sept 12, 2018		PDF Slides  Zoom Webinar			
Is Grouper the Answer for Role-based Access? It sure is for Deprovisioning!	Karen Herrington Keith Wessel Bill Thompson Chris Hyzer	Virginia Tech Illinois Lafayette Penn	2018 Internet2 Global Summit	May, 2018		RBAC and Grouper Big Ten Academic Alliance Grouper ABAC @ Lafayette College Grouper deprovisioning T title	Grouper deprovisioning Title		
Grouper BOF	Chris Hyzer Bill Thompson Shilen Patel Bert Bee-Lindgren	Penn Lafayette Duke Georgia Tech	2018 Internet2 Global Summit	May, 2018		Grouper BoF pdf	Grouper BoF pptx		

Grouper in Action Tutorial (4 hour session)	Chris Hyzer Bill Thompson Keith Wessel Chris Hubing Shilen Patel	Penn Lafayette Illinois Internet2 Duke	2018 Internet2 Global Summit	May, 2018		<a href="#">Intro, hands on, Grouper TIER packaging</a>  <a href="#">TIER Subject Attribute Management and Access Governance</a>  <a href="#">Lafayette Reference Groups</a>  <a href="#">Grouper @Illinois</a>	<a href="#">Intro, hands on</a>  <a href="#">Grouper @ Illinois</a>		
Grouper BOF	Bill Thompson Chris Hyzer  Shilen Patel Bert Bee-Lindgren	Lafayette Penn Duke GaTech	2017 Internet2 TechEx SF	Oct 17, 2017		<a href="#">PDF Slides</a>	<a href="#">Grouper BoF</a>		
Grouper in Action Tutorial (4 hour session)	Bill Thompson Chris Hyzer Carl Waldbieter Bert Bee-Lindgren	Lafayette Penn Lafayette GaTech	2017 Internet2 TechEx SF	Oct 15, 2017, 8am to noon		<a href="#">Chirs Hyzer - intro, overview and hands on</a>  <a href="#">Grouper at Lafayette</a>  <a href="#">Grouper at Georgia Tech &amp; PSP</a>  <a href="#">Grouper Deployment Guide</a>	<a href="#">PPT Chris Hyzer intro and overview</a>		
Grouper BOF	Chris Hyzer,  Shilen Patel  Bert Bee-Lindgren  Bill Thompson	Penn Duke  Georgia Tech  Lafayette College	2017 Internet2 Global summit in DC	Apr 25, 2017		<a href="#">PDF Slides</a>			
Grouper BOF	Chris Hyzer,  Shilen Patel  Bert Bee-Lindgren  Bill Thompson	Penn Duke  Georgia Tech  Lafayette College	2016 Internet2 Technology Exchange in Miami	Sept 27, 2016		<a href="#">PDF Slides</a>			
Grouper Provisioning: Locally and Cloud	Chris Hyzer,  Bert Bee-Lindgren  Bill Thompson	Penn Georgia Tech  Lafayette College	2016 Internet2 Technology Exchange in Miami	Sept 26, 2016		<a href="#">PDF Slides</a>			
Shibboleth and Grouper at UCLA	Warren Leung, IAM Program Manager, UCLA,  John Gasper, IAM Consultant, Unicon, Inc.		InCommon Affiliate Webinar	Sept. 22, 2016		<a href="#">PDF Slides</a>  <a href="#">Webinar</a>			

Grouper Intro and Case Studies, IAM Online	Bert Bee-Lindgren, John Bryson, Madan Dorairaj, Chris Hyzer, Julio Macavilca, Carl Waldbieser,	Georgia Tech New York University University of Pennsylvania Lafayette College	IAM Online webinar	July 13, 2016		<a href="#">PDF Slides</a>			
<a href="#">Scriptable Grouper</a>	Carl Waldbeiser	Lafayette College	Open Apereo 2016	May 2016					<a href="https://cwaldbie.ser.github.io/reveal.js/#/">https://cwaldbie.ser.github.io/reveal.js/#/</a>
<a href="#">Exploring Internet2 Grouper &amp; NIST RBAC/ABAC</a>	Misagh Moayyed, William G. Thompson, Jr,	Unicon Lafayette College	<a href="#">Open Apereo 2016</a>	May 25, 2016		<a href="#">PDF Slides</a>			
<a href="#">Grouper in Action at NYU</a>	Jeff Pasch, Julio Macavilca, Madan Dorairaj	New York University	Open Apereo 2016	May 22, 2016		<a href="#">PDF Slides</a>			
<a href="#">Grouper in Action: Access Management Strategies for Higher Education and Research</a>	Chris Hyzer, Bill Thompson, Jeff Pasch, Julio Mascavilca, Madan Dorairaj	University of Pennsylvania Lafayette College New York University	<a href="#">Open Apereo 2016</a>	May 22, 2016		<a href="#">PDF Slides</a>			
<a href="#">Grouper in Action: Access Policy and Reference Groups @ Lafayette College</a>	William G. Thompson, Jr.,	Lafayette College	Open Apereo 2016	May 22, 2016		<a href="#">PDF Slides</a>			
Grouper Birds of Feather session	Chris Hyzer	University of Pennsylvania	2016 Global Summit	May 18, 2016		<a href="#">PDF Slides</a>			
Grouper Birds of Feather session	Chris Hyzer	University of Pennsylvania	2015 TechEx	October 6, 2015		<a href="#">PDF Slides</a>			
IAM Online: Three Access Management Cases Studies	Mandeep Saini, Andrew Morgan, Albert Wu	GEANT, Oregon State University, UCLA	IAM Online Webinar	June 10, 2015		<a href="#">PDF Slides</a>			
Grouper Working Group	Chris Hyzer	University of Pennsylvania	2014 Technology Exchange in Indianapolis	Oct 29, 2014		<a href="#">PDF Slides</a>			
Implementing Grouper to Federate User Authorization	<a href="#">Andrea Biancini</a> Consortium GARR and <a href="#">Maarten Kremers</a> Surfnet BV		<a href="#">2014 Technology Exchange</a> in Indianapolis	Oct. 29, 2014		<a href="#">PDF Slides</a>			
IAM Online: The New Grouper: Its New User Interface and More	Chris Hyer, Shilen Patel, Dave Langenberg		IAM Online Webinar	Sept. 10, 2014		<a href="#">PDF slides</a>			<a href="#">Recorded Webinar using Adobe Connect</a>

	Grouper for Beginners, How to create a group for each course section and provision to Active Directory	Bryan Wooten, University of Wooten		Open Apereo 2014 Conference	June 3, 2014		PDF of slides			Video of presentation
	Grouper intro, high availability, and new UI	Chris Hyzer		Penn	May 26, 2013		penngroupsUiAvailability.pdf	pptx		High availability demo UI demo
	Enterprise Authorization Strategies - Intro to Grouper	Chris Hyzer (Penn) and Bill Thompson (Unicon)		Open Apereo 2013 Conference	June 2, 2013		GrouperTraining-Apereo-part1.pdf GrouperTraining-Apereo-part2.pdf GrouperTraining-Apereo_part3.pdf	ppt2 ppt3		youtube1 youtube2 youtube3 youtube4
	Grouper Virtual Working Group	Tom Barton of U. Chicago, Chris Hyzer of U. Penn, Chris Bongaarts of U. Minnesota Michael Hodges of U. Hawaii		IAM Online	May 20, 2013	<a href="#">Link to the webinar</a>	PDF			
	IAM Online: Three Campus Case Studies of Managing Access with Grouper	Paul Donahue, U. of Wisc-Madison, Sébastien Gagné, U. of Montreal, Rahul Doshi and Michael Gettes, Carnegie Mellon U.		IAM Online Webinar	March 13, 2013	<a href="#">Link to the webinar</a>	PDF			
	Grouper after Groups Enabling Net+ Services with PAP, PEP, and PDP...Oh My!	Bill Thompson Unicon and Chris Hyzer		I2MM Fall Member Meeting 2012	October 3, 2012		PDF			
	<a href="#">One Fish Two Fish... Intro to Grouper</a>	Bill Thompson, Unicon and Shilen Patel, Duke		Jasig Sakai Conference in Atlanta, June 2012	June 13, 2012					
	<a href="#">Integrating Sakai OAE with Grouper</a>	Erik Froese	Hallway Technologies	Jasig Sakai Conference in Atlanta, June 2012	June 12, 2012		<a href="https://wiki.jasig.org/download/attachments/52957868/oea-grouper-2012.pdf">https://wiki.jasig.org/download/attachments/52957868/oea-grouper-2012.pdf</a>			
	<a href="#">Access Management and Grouper</a>	Tom Barton	University of Chicago	Internet2 Spring Member Meeting	April 25, 2012					
	<a href="#">Grouper Working Group Presentation</a>	Tom Barton, Tom Zeller, Shilen Patel	University of Chicago, Unicon, Duke	Internet2 Spring Member Meeting	April 23, 2012					
	<a href="#">Grouper Working Group Presentation and Discussion Notes (focus on Grouper 2.0 and beyond)</a>	Tom Barton	University of Chicago	Internet2 Fall Member Meeting	Oct. 3 2011					
	<a href="#">Grouper external users example</a>	Chris Hyzer	University of Pennsylvania	Internet2 Fall Member Meeting - session titled " Getting to a Full-spectrum Open Source Identity and Access Management Solution"	Oct. 5 2011		PDF			
	<a href="#">Where sidewalk used to end, centralized privilege management</a>	Chris Hyzer	University of Pennsylvania	Internet2 Fall Member Meeting	Oct. 4 2011					

	<a href="#">IAM Online - Oracle FGAC permissions and Grouper</a>	Chris Hyzer	University of Pennsylvania	Webcast	Sept 2011			<a href="#">PDF</a>			
	<a href="#">Grouper Survey Summary</a>	Tom Barton	University of Chicago		Aug. 2011			<a href="#">PDF</a>			
	<a href="#">PSU permissions</a>	Chris Hyzer	University of Pennsylvania	Penn State	July 2011						
	<a href="#">Getting Started with Grouper</a>	Tom Barton	University of Chicago	Jasig Spotlight on Open Source Conference in May 2011, Getting Started with Grouper Supplementary Seminar	May 2011						
	<a href="#">What's New With Grouper: Attribute Framework, Penn's Secure Space, Atlassian Connector, Group Sync with Another Grouper, Upgrading from Grouper 1.6</a>	Chris Hyzer	University of Pennsylvania	Internet2 2011 Spring Member Meeting	April 2011						
	<a href="#">What's New With Grouper: Member Search and Sort, Point-in-time Audit</a>	Shilen Patel	Duke	Internet2 2011 Spring Member Meeting	April 2011						
	<a href="#">Delegated Access Control in Grouper using Active Directory</a>	Rob Carter and Shilen Patel	Duke	Internet2 2010 Fall Member Meeting	Nov. 2010						
	<a href="#">What's New with Grouper</a>	Chris Hyzer	University of Pennsylvania	Internet2 2010 Fall Member Meeting	Nov. 2010						
	<a href="#">University of Washington Groups Service</a>	Jim Fox	University of Washington	Internet2 2010 Fall Member Meeting	Nov. 2010						
	<a href="#">Using Grouper: Newcastle University Case Study</a>	Richard James	Newcastle	Internet2 Fall Member Meeting	Nov 2010						
28	<a href="#">Kuali eDoclite and Grouper for access forms workflow at Penn</a>	Chris Hyzer	University of Pennsylvania	Kuali Days 2010	Nov 2010						
27	<a href="#">IAM Online Webinar Slides Covers integration of Grouper with Kuali Rice KIM and with uPortal</a>	Tom Barton Chris Hyzer	U. Chicago, University of Pennsylvania	Webinar Titled "Advanced Issues in Identity Access and Management - Toward Common Identity Services"	May 13, 2010						
26	<a href="#">Identity Management for the LIGO Project</a>	Scott Koranda	University of Wisconsin-Milwaukee	Internet2 Spring Member Meeting (April 2010)							
25	<a href="#">What's New With Grouper</a>	Chris Hyzer	University of Pennsylvania	Internet2 Spring Member Meeting(April 2010)							
24	<a href="#">Using Grouper to Manage AD Permissions</a>	Rob Carter Shilen Patel	Duke	Internet2 Spring Member Meeting(April 2010)							
23	<a href="#">UC Groups: An Access Management Service</a> <i>Note: This was a lightning round talk</i>	Tom Barton	U. Chicago	EDUCAUSE Midwest Regional Conference in Chicago	March 2010						
22	<a href="#">Toward Common Identity Services</a>	Tom Barton	U. Chicago	Jasig Spring 2010 Conference in San Diego	March 2010						
21	<a href="#">Interview with Tom Barton November 2009</a>	Tom Barton and Emily Eisbruch	U. Chicago	Available on the Grouper website homepage with the Grouper 1.5 release							
20	<a href="#">Whats new with Grouper</a>	Chris Hyzer, Shilen Patel, Gary Brown	Penn, Duke, Bristol	Internet2 Fall Member Meeting 2009	Oct 2009				<a href="#">ppt</a>		
19	<a href="#">Grouper Attributes and Privileges</a>	Chris Hyzer	Univ of Penn	Access Management CAMP in Philadelphia	June 2009				<a href="#">ppt</a>		
18	<a href="#">Access Management with Grouper</a>	Tom Barton	U. Chicago	Jasig Spring 2009 Conference in Dallas	March 2009			<a href="#">pdf</a>			
17	<a href="#">Grouper Web Services</a>	Chris Hyzer	Univ of Penn	Philadelphia Java Users Group and Jasig Spring 09 Conference	Feb 2009				<a href="#">ppt</a>		

16	PennGroups - Central Authorization at Penn	Bill Kasenchar and Chris Hyzer	Univ of Penn	Educause MidAtlantic Regional Conference	7-Jan-2009	-	pdf	ppt	-	-
15	Grouper Backgrounder for Authorization WG	Tom Barton	U Chicago	caBIG AuthZ WG	17-Jul-2006	-	-	ppt	-	-
14	Grouper/Signet	Lynn McRae Tom Barton	Stanford U. U Chicago	Spring 2006 Internet2 Member Meeting; Alexandria, VA	26-Apr-2006	-	-	ppt	-	-
13	Use Cases	Lynn McRae	Stanford U.	Spring 2006 Internet2 Member Meeting; Alexandria, VA	24-Apr-2006	-	-	ppt	-	-
12	Use Cases Wrap up	Tom Barton	U. Chicago	Signet/Grouper Early Adopters Workshop; USC, LA, CA	22-Mar-2006	-	-	ppt	-	-
11	Signet and Grouper for Distributed Attribute Administration	Tom Barton	U Chicago	GGF15	3-Oct-2005	-	-	ppt	-	-
10	Managing Authorization with Grouper and Signet	Tom Barton Lynn McRae	U Chicago\Stanford	Fall 2005 Internet2 Member Meeting	20-Sep-2005	-	-	ppt	-	-
9	Using Signet and Grouper for Access Management	Lynn McRae Tom Barton	Stanford U Chicago	Spring 2005 Internet2 Member Meeting	03-May-2005	-	-	ppt	-	-
8	Authorization Tools - I2/NMI Update: Signet, Grouper, & GridShib	Tom Barton	U. Chicago	TERENA TF-EMC2 Meeting Amsterdam, NL	Feb-2005	-	-	ppt	-	-
7	Moving Beyond Implementation: Authorization	Tom Barton	U Chicago	NMI CAMP	17-Nov-2004	-	-	ppt	-	-
6	Leveraging Campus Directories: Lightweight Authorization and Group Management	Keith Hazelton	U Wisconsin-Madison	EDUCAUSE 2004	20-Oct-2004	-	-	ppt	-	-
5	Grouper: A Toolkit for Managing Groups	Tom Barton	U Chicago	Fall 2004 Internet2 Member Meeting	28-Sep-2004	-	-	ppt	-	-
4	Introduction to Group Management	Tom Barton Blair Christensen	U Chicago	NMI CAMP	30-Jun-2004	-	-	ppt	-	-
3	Moving Beyond Implementation: Next Steps for Enterprise Directories	Tom Barton	U Chicago	NMI CAMP	06-Feb-2004	-	-	ppt	-	-
2	Authority Process & Policy	Sandra Senti	Stanford U.	NMI Advanced CAMP	9-Jul-2003	html	pdf	-	-	-
1	Topics in Directories: Groups	Tom Barton	U Memphis	NMI CAMP	25-Jun-2002	-	-	ppt	-	-
0	Identifiers, Authentication, and Directories: Best Practices for Higher Education			NMI-edit/Internet2 Middleware Initiative	9-May-2000	<a href="http://doi.org/10.26869/TI.24.1">http://doi.org/10.26869/TI.24.1</a>	PDF			

see this wiki <https://spaces.at.internet2.edu/x/IRjtBw>

## WG Archived Documents

These documents have either been abandon or absorbed into other documents.

	ARCHIVED Document	Author	Author Home	Venue	Notes	Date	. HTML	.PDF	. TXT
15									
14									
13	Grouper UI Demo	Gary Brown	U. Bristol, UK	Grouper	-	-	html	-	-
12	Grouper UI Architecture	Gary Brown	U. Bristol, UK	Grouper	-	-	html	-	-
11	Group Tools Architecture	Tom Barton	U. Chicago	MACE-Dir	-	Apr-2005		<a href="http://doi.org/10.26869/TI.64.1">http://doi.org/10.26869/TI.64.1</a>	-
10	Grouper Roadmap	Blair Christensen	U. Wisconsin	Grouper	-	15-Apr-2005	html	-	-
9	Grouper Phase 1 Specifications (Draft)	Tom Barton, Blair Christensen	U. Chicago	MACE-Dir-Grouper	-	3-May-2004	html	-	-
8	Grouper API Search & Browse Capabilities	Tom Barton	U. Chicago	MACE-Dir-Groups	-	4-Nov-2004	html	-	-
7	Grouper Roadmap	Tom Barton	U. Chicago	MACE-Dir-Groups	-	24-Feb-2004	html	-	-

6	Strawman architecture for group Tools	Tom Barton	U. Chicago	MACE-Dir-Groups	-	8-Oct-2003	<a href="#">html</a>	-	-
5	SAGE (Service for Authorized Group Editing) (Draft)	Tom Barton	U. Chicago	MACE-Dir-Groups	-	24-Apr-2003	<a href="#">html</a>	-	-
4	Inter-Domain Data Exchange	Rob Banz	UMB	MACE-Dir	-	Oct-2002	<a href="#">html</a>	-	-
3	Groups Implementer's Guide	Eileen Shepard	Boston College	MACE-Dir-Groups	-	6-June-2002	<a href="#">html</a>	-	-
2	MACE-Dir's Approach to Support of Authorization & Messaging by Core Middleware: Discussion Starter	Tom Barton	U. Memphis	MACE-Dir-Groups	-	18-Jul-2001	<a href="#">html</a>	-	-
1	Directory Server Groups (People)	Todd Piket	MTU	MACE-Dir-Groups	-	17-Jul-2001	<a href="#">html</a>	-	-

## Early Foundational Documents on Directories and Groups

1. [Group Tools Architecture](#) 6-Dec-2003, MACE-Dir  
Tom Barton, U. Chicago
2. [Practices in Directory Groups](#) Oct-2002, MACE-Dir-Groups  
Tom Barton, U. Chicago
3. [LDAP representations of membership in groups \(aka eduMember\)](#) 5-Jul-2005, MACE-Dir  
Keith Hazelton, U. Wisconsin
4. [Group and membership concepts](#) 5-Jul-2005, MACE-Dir  
Keith Hazelton, U. Wisconsin

### See Also:

[Grouper Community Contributions](#)