Campus Identity Providers: Providing and Using toolkits to deploy

Marco Malavolti, Mario Reale, Jack Suess, Ann West, Steven Zoppi

**TNC 2018** 







- 1. GEANT context
- 2. GEANT example deployment (Federations)
- 3. Internet2 /TIER context
- 4. Internet2/TIER example deployment (Home Organizations)
- 5. Wrap up



- GEANT task on Campus IdP is working on the following items:
  - An **ANSIBLE toolkit** aimed at automating the deployment of the Shibboleth IdP
  - A Docker-based deployment solution to provide Shibboleth IdP
  - A tool to gather **Fticks** from IdPs and display related authentication statistics for eduGAIN federations
  - A tool to gather email address of IdP security contacts and verify their validity, to support SIRTFI
  - A general GEANT IdP platform as an eduGAIN SP accessible by FedOps and HO managers to manage their Identity providers:
    - Install
    - Configure
    - Update
    - .



**Home Organizations:** 

- Support local administrators in spawning their HO Identity Provider

#### **Federations**

- Support Federation Operators in their role of Cloud IdP providers

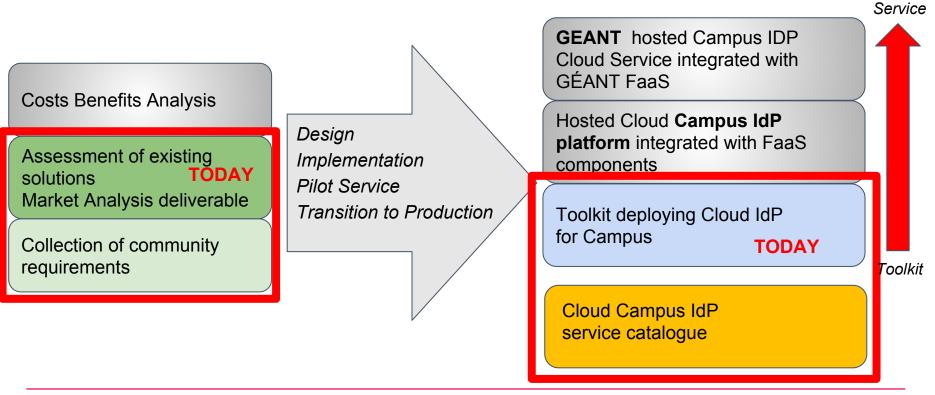






Cloud

# **Approach adopted**



# SIRTFI email contact verification tool



GÉANT Camp	ous IdP ta	sk			ttps://c	-	
	List	of all edu	Gain er	itities(2018-06-	04)		
Select	Firs	t « 1 2 3	4 5 6 7	8 9 10 » Last			
Entity Type	Show	ing 1-100 of 7,928 items	5.				
SP IdP	#	Entity Name	Contact Type	Contact Email	Contact Name	Last Checked	6
AA	1	12Twenty SP	technical	kevin.chu@12twenty.com	Kevin Chu	(not set)	0
Alternative Type	2	12Twenty SP	support	support@12twenty.com	General Support	(not set)	6
SP	3	12Twenty Test SP	technical	kevin.chu@12twenty.com	Kevin Chu	(not set)	(
Validator	4	12Twenty Test SP	support	support@12twenty.com	General Support	(not set)	6
■ warn ■ ok	5	3D Labs at Stony Brook	other	DoIT_Security@stonybrook.edu	DoIT Information Security	(not set)	e
ECCS Status	6	3D Labs at Stony Brook	administrative	gary.halada@stonybrook.edu	Gary Halada	(not set)	E
green	7	3D Labs at Stony Brook	technical	paul.st.denis@stonybrook.edu	Paul St. Denis	(not set)	
<ul><li>red</li><li>yellow</li></ul>	8	missing	technical	chris.olver@3plearning.com	Chris	(not set)	0
Contact Type	9	missing	support	techsupport@3plearning.com	3P Learning Technical Support	(not set)	6
other technical	10	missing	support	techsupport@3plearning.co.uk	Technical Support	(not set)	0

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#### https://sirtfi-check.swamid.se/

About SWAMID

Contact

SWAMID - REFEDS R&S and REFEDS SIRTFI requirement test

This service is a simple proof of concept test with Shibboleth SP Attribute Checker. If the test is successful you will se a very simple page with all attributes echoed.

The Identity Provider is tested for

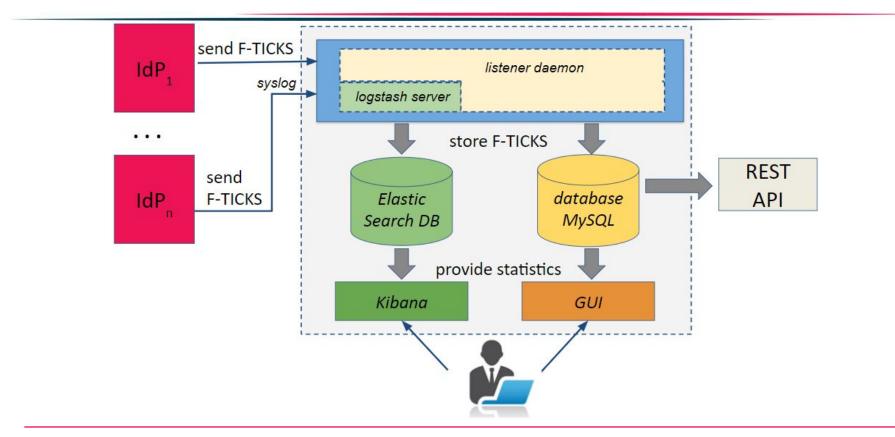
- metadata declaration for support of REFEDS SIRTFI; and
- attribute release based on REFEDS R&S.

SWAMID and eduGAIN

#### Log in via SWAMID or eduGAIN

#### **Gathering authentication statistics: Fticks pilot**





#### **Gathering authentication statistics: Fticks pilot**

Networks



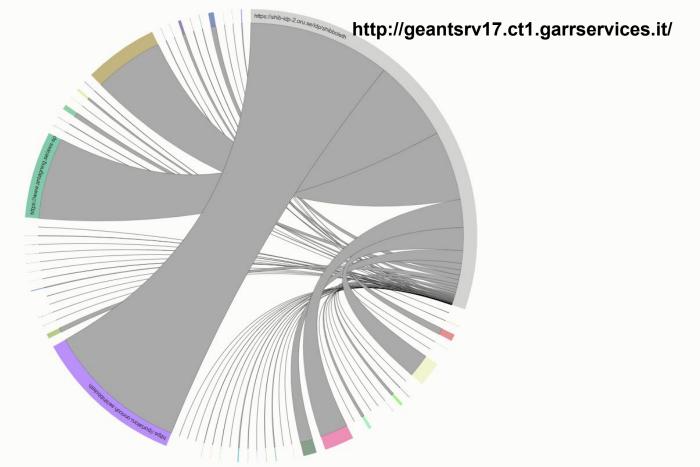
#### http://geantsrv17.ct1.garrservices.it/

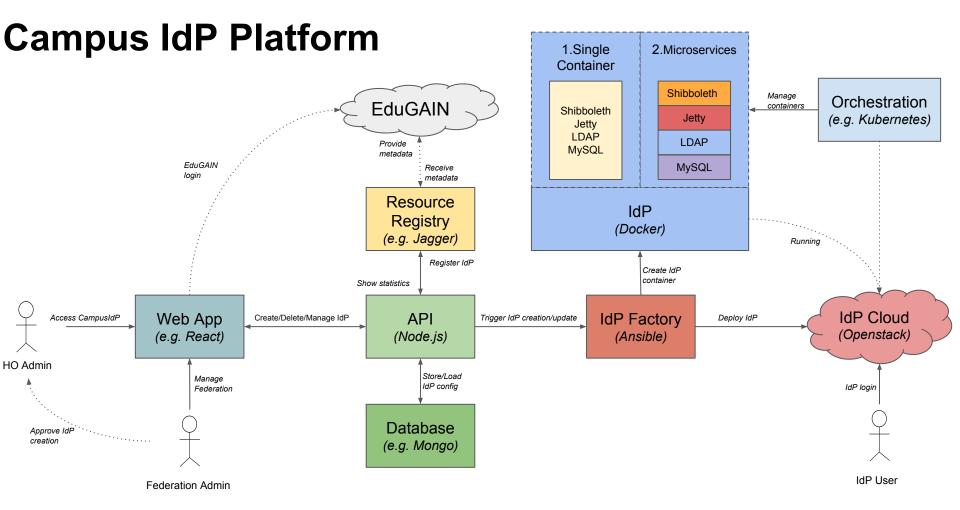
https://miunido.miun.se/idp/shibboleth

	https://weblogin.uu.se/idp/shibboleth	
https://ticket.iop.org/shibboleth	https://idp3.it.gu.se/idp/shibboleth	
	https://login.ki.se/idp/shibboleth	
	https://login.it.liu.se/idp/shibboleth	

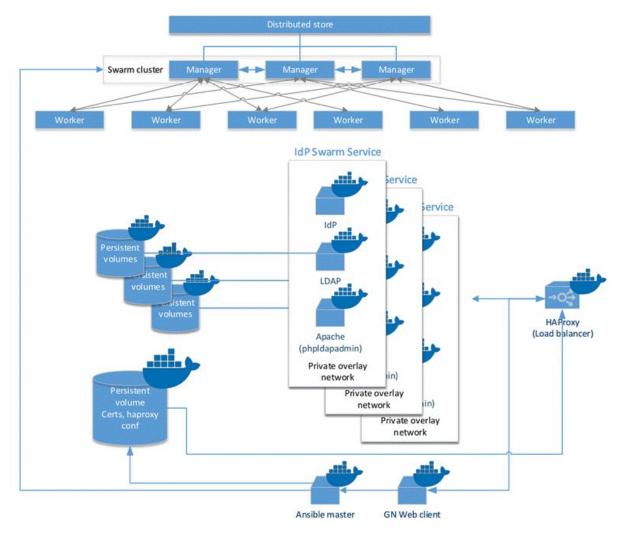
# **Gathering authentication statistics: Fticks pilot**







Campus IdP Platform: microservices





#### On going

- Design and implementation of Web Client application (GUI) [React] & corresponding SP
- Further development of Docker microservices based solution by adding offered functionality
- Addition of functionality to the SIRTFI email checker tool <u>https://campus-idp-test.geant.org</u>
- Extend the Measurement and Statistics pilot to include additional IdPs from Federations



# The GEANT Ansible toolkit to deploy Identity Providers

Marco Malavolti IDEM Federation Operator <u>marco.malavolti@garr.it</u>



- 1. **Help** research institutions lacking of manpower, hardware, knowledge, to install and configure their Identity Providers Shibboleth.
- 2. Increase the number of IdPs joining identity federations.
- 3. Break down the effort needed to join an identity federation



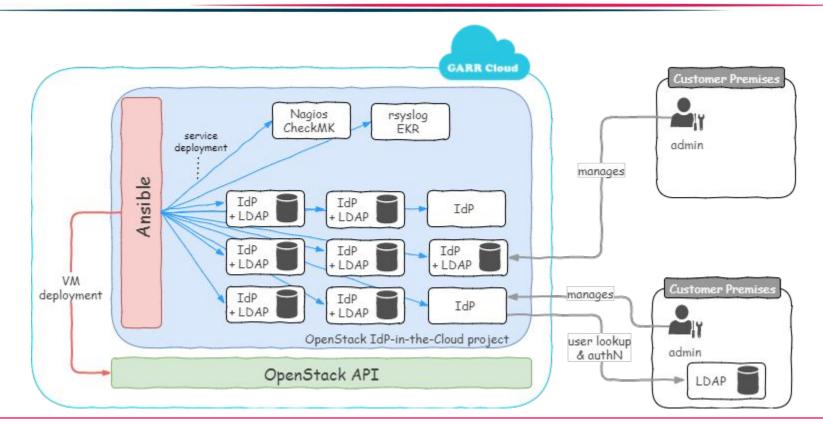
With the Géant **Ansible-Toolkit**.

The Ansible Toolkit allows to:

- 1. Create/Delete Virtual Machines on an OpenStack Cloud (ansible-openstack)
- 2. Deploy the monitoring system to check the IdPs (ansible-monitoring)
- 3. Deploy an entire Shibboleth Identity Provider(IdP) (ansible-shibboleth)



#### GARR IdP-in-the-Cloud Example



# Ansible-openstack result: Add/Remove VM on OpenStack Cloud

<u></u>		cloudusers • idpcloud <del>-</del>										🐣 idpcloud-op
Project ^												
Compute ^	In	stances										
Overview						Instance Name =	•		Filte	r 🙆 Launch In	stance 💼 Delete Instance	s More Actions
Instances		Instance Name	Image Name	IP Address	Size	Key Pair	Status	Availability Zone	Task	Power State	Time since created	Actions
Volumes Images	C	idp-portici.izs.garr.it	Debian-8.8.2	192.168.80.37 Floating IPs: 90.147.166.106	idem-idpcloud	idpcloud-key	Active	nova	None	Running	2 minutes	Create Snapshot
Access & Security Network ~		garr-idp-prod.irccs.garr.it	Debian-8.8.2	192.168.80.10 Floating IPs: 90.147.166.82	idem-idpcloud	idpcloud-key	Active	nova	None	Running	1 month, 1 week	Create Snapshot
Object Store ·	C	garr-idp-test.irccs.garr.it	Debian-8.8.2	192.168.80.36 Floating IPs: 90.147.167.145	idem-idpcloud	idpcloud-key	Active	nova	None	Running	2 months, 1 week	Create Snapshot
	C	checkmk.aai.garr.it	Debian-8.8.2	192.168.80.7 Floating IPs: 90.147.166.123	m1.medium	idpcloud-key	Active	nova	None	Running	2 months, 1 week	Create Snapshot
	C	kibana.aai.garr.it	Debian-8.8.2	192.168.80.6 Floating IPs: 90.147.167.215	idem-elk	idpcloud-key	Active	nova	None	Running	2 months, 1 week	Create Snapshot
		data-backups.aai.garr.it	Debian-8.8.2	192.168.80.9 Floating IPs: 90.147.166.36	idem-idpcloud	idpcloud-key	Active	nova	None	Running	2 months, 1 week	Create Snapshot
		logs.aai.garr.it	Debian-8.8.2	192.168.80.8 Floating IPs: 90.147.167.172	idem-idpcloud	idpcloud-key	Active	nova	None	Running	2 months, 1 week	Create Snapshot
		elasticsearch2.aai.garr.it	Debian-8.8.2	192.168.80.5 Floating IPs: 90.147.167.12	idem-elk	idpcloud-key	Active	nova	None	Running	2 months, 1 week	Create Snapshot
		elasticsearch1.aai.garr.it	Debian-8.8.2	192.168.80.4 Floating IPs:	idem-elk	idpcloud-key	Active	nova	None	Running	2 months, 1 week	Create Snapshot

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# Ansible-monitoring result: Install and Configure monitoring tools

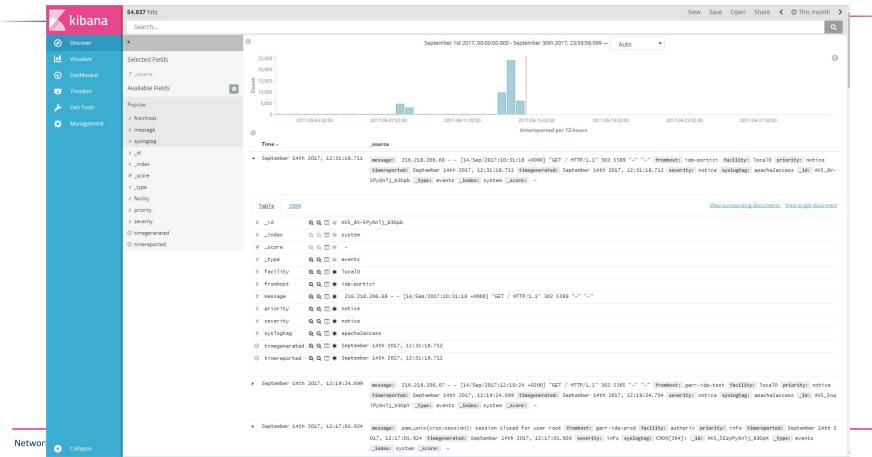


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Hosts Problems Unhandled			Check SSL Contificate Ex	nization
Services Problems Unhandled	Local site idpcloud, ansible-slav State Service	e-1.irccs.garr.it	Check SSL Certificate Ex	Age Checked Perf-O-Meter
Events Problems Unhandled	OK Check MK	OK - Agent version 1.4.0p9, execution time 0.7 sec	Status uetan	2017-06-20 14:20:03 19.6 s 707 ms
0 0 0	OK Check_MK Discovery	OK - no unmonitored services found, no vanished services found		2017-06-01 12:35:48 36 m
- Quicksearch ×	OK Check HTTPS	<ul> <li>OK - Certificate 'ansible-slave-1.irccs.garr.it' will expire on Sun Nov 29 07:48:08 20</li> </ul>	Check IDP MD:	2017-06-20 14:15:37 45.6 s
	OK Check IDP MD	HTTP OK: HTTP/1.1 200 OK - 14093 bytes in 0.046 second response time		2017-06-20 14:17:20 11 6 46 3 ms
	OK check_aacli	OK - SUCCESS - IdP has retrieved metadata of Test SP and is sending attributes	Check IDP Metadata (/idp	/shibboleth)
– Views ×	OK check_mysgl	OK - SUCCESS - IdP has all needed databases	· · ·	2017-06-01 12:35:20 18.6 s
Overview     Host & Services Problems	OK CPU load	OK - 15 min load 0.05 at 2 Cores (0.03 per Core)	availability	2017-04-13 20:22:33 18.6 s 0.0400
Main Overview	OK CPU utilization	OK - user: 0.7%, system: 0.4%, wait: 0.1%, steal: 0.0%, guest: 0.0%, total: 1.1%		2017-04-13 20:22:33 18.6 s 1.13%
Network Topology Version Version Ve Version Version	OK Disk IO SUMMARY		erane Read Wait: 0.00 ms. Averane Write Wait: 0.66 ms. Latency: 0.66 ms. Averane Oueue Length: 0	
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All hosts (tiled) Favorite hosts	OK Interface 2	GK - [eth0] (up) speed unknown, in: 425.38 B/s, out: 1.10 kB/s		
Host search	OK Kernel Context Switches		sending attributes from t	he IdP to a test SP
	OK Kernel Major Page Faults		···· <b>J</b> ········	2017-04-13 20:22:40 18.6 s 0/s
Host Groups (Grid) Host Groups (Summary)	OK Kernel Process Creation			2017-04-13 20:22:40 18:6 s 1:55/s
Services     All services				2017-04-13 20:22:30 16:6 s 1:50/s
Favorite services		OK - RAM used: 889.41 MB of 3.87 GB (22.4%),     OK - Mount options exactly as expected	<u>check mysql:</u>	2017-04-13 20:22:33 18:6 s
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Service search Unmonitored services		OK - sys.peer - stratum 1, offset -2.12 ms, jitter 0.94 ms, last reached 968 secs age of the sys.		
<ul> <li>Service Groups</li> <li>Service Groups (Grid)</li> </ul>	OK Number of threads	• • OK - 148 threads	are active	
Service Groups (Summary)	OK SSH	SSH OK - OpenSSH_6.7p1 Debian-5+deb8u3 (protocol 2.0)		2017-06-22 14:19:46 36.7 s
Services by group Vertics	OK TCP Connections	GK - ESTABLISHED: 5, SYN_RECV: 1, CLOSE_WAIT: 7, TIME_WAIT: 1, FIN_WAIT2	2.3, LISTEN.7	2017-04-13 20:22:33 18.7 s
Search Time Graphs Search performance data	OK Uptime	• • OK - Up since Tue Jun 20 13:54:58 2017 (85d 20:17:23)		2017-04-13 20:22:33 18.7 s 86 d
<ul> <li>Business Intelligence</li> <li>Problems</li> </ul>	Local site idpcloud, ansible-slav		Status detail	Age Checked Perf-O-Meter
Alert Statistics Host problems	OK Check_MK	Icons		
Pending Services	OK Check MK Discovery	OK - no unmonitored services found, no vanished services found	- Check IDM pa	
Pending service discovery Service problems	OK Check HTTPS	OK - Certificate 'ansible-slave-2.izs.garr.it' will expire on Sun Nov 29 14:37:01 2020		<b>Q</b> 7-06-23 07:12:29 53 7 8
Stale services Event Console	OK Check IDM page	HTTP OK: Status line output matched "HTTP/1.1 401 Unauthorized" - 1631 bytes i		10L 3, 2017 07-28 14:13:30 10.7 s 44.8 ms
Events Recent Event History	OK Check IDM-TOOLS	HTTP OK: Status line output matched "HTTP/1.1 401 Unauthorized" - 1639 bytes i		CE 7-07-28 14:19:13 45.7 s 44.4 ms
✓ Inventory	OK Check IDP MD	HTTP OK: HTTP/1.1 200 OK - 13943 bytes in 0.050 second response time		2017-09-11 01:21:10 30.7 s 49.8 ms
CPU Related Inventory of all Hosts Search Backplanes	OK Check LOCKUSER	HTTP OK ATTP/17200 OK - 15945 bytes in 0.050 second response unite     HTTP OK: Status line output matched "HTTP/1.1 401 Unauthorized" - 1644 bytes i	n 0.044 second response time - check coco,	2017-06-23 07:15:35 47.7 s 43.8 ms
Search Fans Search Modules	OK check_aacli	<ul> <li>OK - SUCCESS - IdP has retrieved metadata of Test SP and is sending attributes</li> </ul>		2017-09-07 07:12:40 698 ms
Search Network interfaces Search Oracle dataguard statistics	OK check coco	OK - SUCCESS - IdP has retrieved metadata of Test OC OSP and is sending autotices     OK - SUCCESS - IdP has retrieved metadata of Test COCO SP and is sending att		2017-06-19 16:02:35 700 ms
Search Oracle instances	OK check_ddap	OK - SUCCESS - LDAP exists and release attributes	- UIEUK_13,	2017-06-19 16:02:35 702 ms
Netv Search Oracle recovery areas	OK check_mysql	OK - SUCCESS - LEP A suis and release autobles     OK - SUCCESS - IdP has all needed databases	- check Idap	2017-06-19 16:02:35 705 ms
		OK SUCCESS - IdP has retrieved metadata of Test RS SP and is sending attributed     OK - SUCCESS - IdP has retrieved metadata of Test RS SP and is sending attributed		2017-08-01 00:59:40 708 ms
		The second s		

# Ansible-monitoring result: Install and Configure monitoring tools



20



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## ansible-shibboleth result: Install and Configure a Shibboleth IDP completely

Clear User Consent

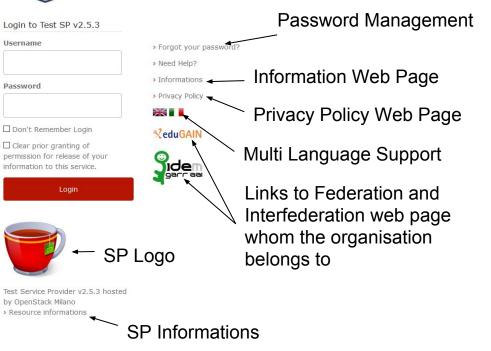


Username

Password

logo.png



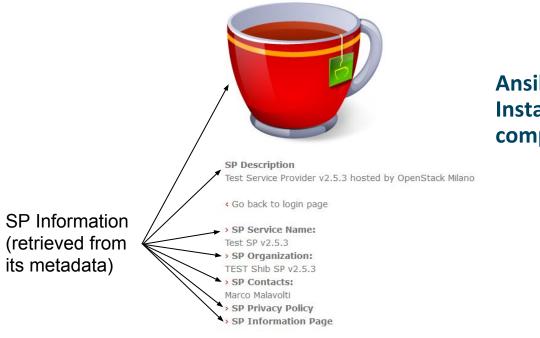


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#### Ansible-shibboleth result: Install and Configure a Shibboleth IDP completely

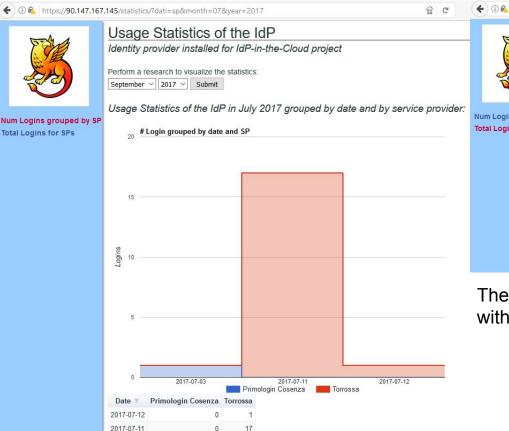
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# Ansible-shibboleth result: Install and Configure a Shibboleth IDP completely



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2017-07-03

Identit	ge Statistics of the IdP by provider installed for IdP-in-the-Cloud
Perform	
Septem	a research to visualize the statistics: ber v 2017 v Submit
The to	tal number of login in April 2017 is: 86

 Identity provider installed for IdP-in-the-Cloud project

 Perform a research to visualize the statistics:

 September v
 2017 v

 Submit

 The total number of login in April 2017 is: 86

 Service Provider v
 Logins

 https://www.torrossa.com/shibboleth
 21

 https://test.torrossa.com/shibboleth
 19

 https://primologin.cs.garrservices.it/shibboleth
 25

 https://garbox.cs.garservices.it/shibboleth
 21

The IDP Manager can view the usage of the IDP with a simple "Statistics" page.



### ansible-shibboleth result: Install and Configure a Shibboleth IDP completely

Home		
Hint Sconsortium GARR LDAP Server	Create Object	
* • •	Server: Consortium GARR LDAP Server Container: ou=people,dc=garr,dc=it Template: Identity Provider: New user creation (custom_idpAccount)	
new search refresh ⊞  Users (2)	Identity Provider: New user creation (Step 1 of 1)	
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GARR GARR

# ansible-shibboleth result: Install and Configure a Shibboleth IDP completely GÉANT

TheFA	
Start	
Server My LDAP Server	Lock/Unlock of the users
	Server: Ny LDAP Server Contenitore: ou=people,dc=izs,dc=it
	Identity Provider: Locking/Unlocking Users
	User list
	The set user expiration date: Set user expiration date: Lock
	Test User User expiration date: Set user expiration date Lock
	The IdP manager can lock out the users
	immediately by pressing on "Lock" button, or
	"Set an expiration date" in the future.

**Results** 



- 10 minutes to deploy a Shibboleth IdP
- Hidden the complexity of installation and configuration of SAML Shibboleth IdP
- **Simplified user management operations** for IdP managers
- Simplified the management of an IdP for operators: security updates, bugfix, software updates, ...
- **Matched** the required **federation standards** in terms of security, reliability, compliance with required policies:
  - SSL credentials, Metadata, Privacy and Information pages, Logos, Entity Categories ...
- Eased the process of joining a federation for IdPs

#### We can add Identity Providers te le Identity Federation more quickly



# Thank you!

# Are you interesting in a pilot? Contact us!

# Marco Malavolti - marco.malavolti@garr.it

Mario Reale - mario.reale@garr.it



# Internet2 / Trust and Identity Initiatives

# TIER Program Summary ...



# TIER Program Expectations

• Primary:

# Long-term sustainability

• Informed By:

Requirements were prioritized with a Three Year scope in-mind

(Least Important) 1 5 (Most Important)		2:41:42 PN
heme / Category / (ID) Requirement	Avg	Rating
olution		
Standards and Enforcement 31 The program must assert and enforce: Published / Stable APIs for ALL core components.		5.00
[Unchanged Requirement]	Dep Rel	
olution		
Federation and Inter-Federation		
9 Inter-Federation and Federation needs must be held high in considerations when building core solutions and artifacts related to TIER.		4.92
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Person Registry/Provisioning 20 Identity Matching Logic must be a part of the Person Registry Service (Directory)		4.92
20 Identity matching Logic must be a part of the Person Registry Service (Directory)	Dep	4.92
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Basic Communications		
54 One Pager for general stakeholders (elevator speech)		4.83
[Unchanged Requirement]	Dep Rel	
olution		
De/Provisioning 8 The solutions must enable individuals to have multiple roles/affiliations/relationships/whatever with the institution, each with its own lifecycle and overlapping set of access privileges needed to undertake each		4.83
8 The solutions must reable individuals to have multiple rotes/affiliations/individuals/entropy with the institution, each with its count lifecycle and ordershiping sof of access privileges needed to undertake each rote. Statefulness (cersistence and preservation of state) must permeate the desion doals of all solution or orders.		4.83
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# Institutionalized Work Plan and Results

2018 TIER WORK PLAN AND PROGRESS REPORT BY THEMATIC GROUPING

As OF 5 May 2018 FOR THE 2018 GLOBAL SUMMIT

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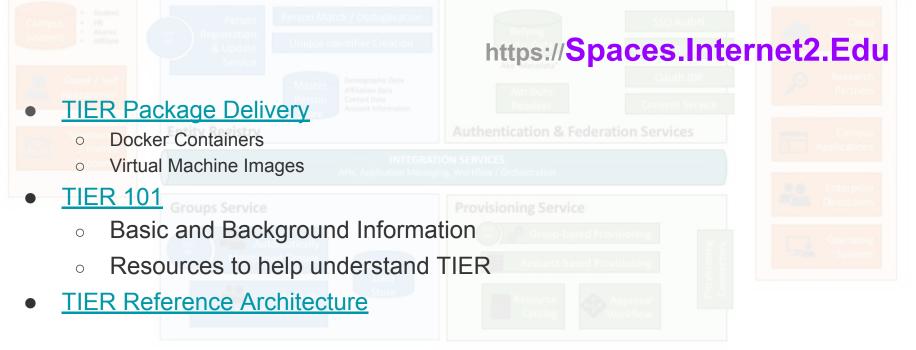
# Scope of Sustainability

- Pre-configured for Multilateral Federated Participants and Research Communities.
- Long-term support agreements will have been established with the Subject Matter Experts, Agencies and Consortia and will be managed on behalf of the community by Internet2
- International Collaborative Development, support and implementation models will continue to be evaluated

# Scope of Sustainability

- The portfolio will be "frozen" to contain "DevOps Friendly" (operationally-oriented), pre-packaged solutions:
  - Group Management (Grouper+UI), Collaborative Organizations Management (COmanage+UI), SAML-based Identity Provider and related Service Provider (Shibboleth+UI), InCommon Federation Manager (FM+UI), Entity Registry Storage + Provisioning and Deprovisioning (midPoint), AMQP Compliant messaging middleware (RabbitMQ), Relational Database Solution to support deployment (MariaDB); Solution Packaging (Docker Containers)

# Getting Started with Internet2 Trust and Identity



# Facets of TIER Program Deliverables

# **Commercial Offering Contrast**

- Offerings are Solid, Well-Supported, but Limited
- Orientation
  - Application WebSSO
  - Enterprise WebSSO
- Un(der) Served
  - Global Multilateral Federation
  - No Useable AuthZ
  - No Community Policy expression

# **Unique Program Orientation:**

- Community-Requirements Driven
- DevOps, Common APIs, Configuration User Interfaces are Core to ALL Functional Deliverables
- Training and Connecting Community Subject Matter Expertise are crucial
- Development process that span ALL types of contributors (Campus Assignees, Contractors, Collaborators, Development Partners

# **Campus Success Program**



# Helping to Mature the Platform

Identifying future development and support models Collaborating around vendor engagements

Standardized attribute feeds from Ellucian Banner SCIM Schemas, API's, ...

Deployment Guide(s)

Investigating new / future use cases Identifying, resolving, and documenting institutional implementation challenges



# Next Steps and Work In Progress...



# Division of Information Technology

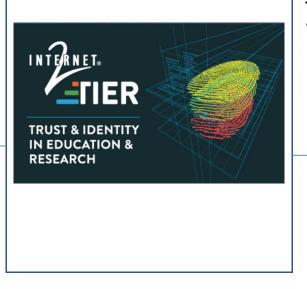
# **Project Name:** UMBC TIER Campus Success Program

#### Project Goals:

- The Tier Campus Success Program is a one year effort to rethink our IDMS and service provisioning strategy.
- UMBC will collaborate with other universities to develop and adopt best practices in IDMS and Federation

#### Key Project Milestones:

- Develop Project Plan (11/17)
- Integrate myUMBC groups 5/25
- Test Midpoint registry in testing 4/15
- Develop configuration management tools to streamline integration of UMBC specific needs



# Expected Campus or DoIT Impact or Deliverables :

- Create a unified approach to group management across services
- Streamline integration of services by making group management easier.
- Lessen custom business logic in our IDMS environment.

#### **Evaluation or Assessment Criteria**

- We have integrated group management across DoIT services.
- This is used to streamline administrative access to services.
- User satisfaction is rated at least a 4 on our bi-annual survey.



- CSP has been very helpful in building a community of practitioners for TIER.
- Completed testing of TIER Shibboleth container, will begin deployment for some services in June and complete by fall.
- Working with TIER CSP schools, we have integrated Box and Google into the TIER grouper effort.
- Waiting for Rabbit/MQ -- we are in process of integrating all 500 or our portal groups into grouper and keeping them in sync through Rabbit/MQ -- this will be a big win.
- We will launch our sponsored account provisioning service through midPoint this fall and begin planning for the full deployment over the next 16 months with completion planned for January 2020.
- Beginning some national discussions with IMS about a standard API for SIS.

# Thank you

