



Meeting:	Task Force Federated Clouds
Date and Time:	Tuesday 25 Oct 2011 - 11:00-12:05 CET
Venue:	Conference Call via HiDef
Agenda:	https://www.egi.eu/indico/event/589

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Participants

Name and Surname	Abbr.	Representing	Function
Matteo Turilli	MTu	Oxford University	Task Force Chair
Steve Brewer	SBr	EGI.eu	Chief Community Officer
Michel Drescher	MDr	EGI.eu	Technology Manager
Tomasz Szepieniec	TSz	CYFRONET	Resource Provider
Marco Verlato	MVe	WeNMR	User Community
Bjoern Hagemeyer	BHa	FZ Juelich	Resource Provider
Shahbaz Memon	SMe	FZ Juelich	Resource Provider
Giacinto Donvito	GDo	IGI	Resource Provider
Alison Packer	APa	STFC (UKngi)	Resource Provider
Zeeshan Ali Shah	ZAS	KTH	Resource Provider, Technology Provider
Alexander Papaspyrou	APu	OGF DCIFed	OGF DCIFed Co-Chair
Micheal Higgins	MHi	CloudSigma	Resource Provider
David Wallom	DWa	Oxford University	Resource Provider

Apologies

Name and Surname	Abbr.	Representing	Function
Tiziana Ferrari	TFe	EGI.eu	Chief Operations Officer
Peter Solagna	PSo	EGI.eu	Operations Officer
Miroslav Ruda	MRu	CESNET	Resource Provider
Daniele Cesini	DCe	EGI-InSPIRE JRA1	Technology Provider
Carl Loomis	CLo	StratusLab	Technology Provider



AGENDA BASHING

There were no changes to the proposed agenda.

MINUTES OF THE PREVIOUS MEETING

The minutes of the previous meeting (18 October 2011) are publically available in MS Word and Adobe PDF format, and are accessible at: <https://www.egi.eu/indico/event/588>.

Accepted without modifications.

ACTIONS REVIEW

Please note that the actions are now managed with the help of the to-dos lists at the following Basecamp website: <https://oerc.basecamphq.com/>.

ID	Resp.	Description	Status
02/01	SBr	Provide initial documentation on User Community requirements and needs that may be used as use cases for a federated cloud infrastructure <i><u>13 Sep 2011</u>: In progress, the received answers need to be collated.</i> <i><u>27 Sep 2011</u>: No progress</i> <i><u>04 Oct 2011</u>: No progress.</i> <i><u>11 Oct 2011</u>: No progress</i> <i><u>18 Oct 2011</u>: No progress</i> <i><u>25 Oct 2011</u>: Starting with the implementation of Scenario 1 we are in a better place to disseminate to user communities; action formally closed but kept running as a background activity</i>	OPEN CLOSED
08/02	FSi/MBo	Fill in the inventory matrix (SARA) provided through Action 03/02 <i><u>27 Sep 2011</u>: No progress</i> <i><u>04 Oct 2011</u>: No progress, but was promised offline for this week.</i> <i><u>11 Oct 2011</u>: No progress; Matteo to follow-up (Action 01/05)</i> <i><u>18 Oct 2011</u>: No progress</i> <i><u>25 Oct 2011</u>: No progress</i>	OPEN
02/03	GSi/SBr	Provide an introduction on the WIKI about the stakeholders,	OPEN

		actors and terminology used in this Task Force <i>04 Oct 2011: No progress</i> <i>11 Oct 2011: No progress</i> <i>18 Oct 2011: No progress</i> <i>25 Oct 2011: No progress; SB adds his responsibility to contribute but requires the review of TF members before publication on the Wiki.</i>	
03/03	MDr	Provide an overview of the six scenarios in the Wiki including Scenario leaders and scenario complexity. <i>04 Oct 2011: No progress</i> <i>11 Oct 2011: No progress</i> <i>18 Oct 2011: No progress</i> <i>25 Oct 2011: No progress</i>	OPEN
05/03	RYa	Fill in the inventory matrix (GWDG) provided through Action 03/02 <i>04 Oct 2011: No progress</i> <i>11 Oct 2011: No progress</i> <i>18 Oct 2011: No progress</i> <i>25 Oct 2011: The information was provided in the Wiki.</i>	OPEN CLOSED
01/04	MTu	Contact umbrella activities mentioned in Action 11/01 and negotiate participation in the Task Force <i>11 Oct 2011: On-going, no results yet</i> <i>18 Oct 2011: On-going, no results yet</i> <i>25 Oct 2011: Activities were contacted, but no answers yet.</i>	OPEN
02/04	DCe	Provide contact details to MT and MD to add technical experts for monitoring into the Task Force <i>11 Oct 2011: Has identified staff, needs discussion on a JRA1 conference call next week</i> <i>18 Oct 2011: No progress</i> <i>25 Oct 2011: Contacts identified and confirmed; mail sent to Matteo and Michel</i>	OPEN CLOSED
03/04	MDr	Contact Task Force representatives for accurate affiliation information and deputies (where required). <i>11 Oct 2011: No progress</i>	OPEN CLOSED

18 Oct 2011: No progress

25 Oct 2011: No progress; Agreement to turn this into an obligation.

04/04	ZAS	Iterate on the conference call topic "Security audit": What does it mean, what does it entail, and what is the scope for the Task Force? <u>18 Oct 2011</u> : No progress <u>25 Oct 2011</u> : Discussed on the mailing list; and documented in the Wiki.	OPEN CLOSED
01/05	MTu	Follow-up with SARA to fill in the inventory matrix <u>18 Oct 2011</u> : Mail sent; no answer <u>25 Oct 2011</u> : In progress, SARA didn't fill in the inventory yet.	OPEN
02/05	MTu	Record Eucalyptus stability and coverage issues in the blueprint. <u>18 Oct 2011</u> : No progress <u>25 Oct 2011</u> : No progress	OPEN
03/05	DOC	Report about the issues about policy and non-technical issues that do not allow TCD to make user accounts available to users. <u>18 Oct 2011</u> : No progress <u>25 Oct 2011</u> : No progress	OPEN
04/05	ZAS	Document the issues around IPv4 and IPv6 in the Wiki <u>18 Oct 2011</u> : No progress <u>25 Oct 2011</u> : Documentation is in internal review with experts	OPEN
05/05	CLo	Evaluate and document StratusLab status for IPv6 support <u>18 Oct 2011</u> : No progress <u>25 Oct 2011</u> : No progress	OPEN
06/05	DCe	Evaluate and document EGI-InSPIRE JRA1 status for IPv6 support <u>18 Oct 2011</u> : No progress <u>25 Oct 2011</u> : In progress	OPEN
07/05	FSI/MVe	Document the WeNMR Cloud usage framework across multiple Cloud providers in the Task Force Wiki. <u>18 Oct 2011</u> : No progress <u>25 Oct 2011</u> : The information was provided in the Wiki	OPEN CLOSED
08/05	MHi	Start collecting inventories and capabilities of resource providers	OPEN



		around Hypervisor capabilities, VLAN issues and IP address obstacles, etc. <i>18 Oct 2011: No progress</i> <i>25 Oct 2011: Started to collect information via Wiki and mailing list</i>	CLOSED
09/05	MVe	Document data movement and access requirements of WeNMR for their use of Clouds. <i>18 Oct 2011: No progress</i> <i>25 Oct 2011: The information was provided in the Wiki</i>	OPEN CLOSED
01/06	MTu	Open a thread on the mailing list kick-starting the discussion around merits and limitations of OCCI. <i>25 Oct 2011: Started on the mailing list.</i>	NEW CLOSED
02/06	ZAS	Add four columns to a table in the wiki site for the providers to specify what management interface APIs and AA technologies they support and what APIs and AA technologies they plan to support in the future. <i>25 Oct 2011: Done.</i>	NEW CLOSED
03/06	MHi	Merge the circulated spreadsheet into the wiki website. <i>25 Oct 2011: No progress</i>	NEW OPEN
04/06	MTu	Security audit: Record the reached agreement in the blue print document. <i>25 Oct 2011: Done.</i>	NEW CLOSED
05/06	MTu	Open a thread on the mailing list to kick-start the discussion about VM upload scenarios. <i>25 Oct 2011: Done.</i>	NEW CLOSED
06/06	MTu	Answer to Tiziana request about providing a list of requirements for a service registry. <i>25 Oct 2011: Done.</i>	NEW CLOSED
07/06	MDr	To circulate the poll for the F2F meeting. <i>25 Oct 2011: Done.</i>	NEW CLOSED



ITEMS OF BUSINESS

Policy issues in Federated Clouds wrap-up

Agreement on AA technology for Cloud providers

Currently most or all providers support username/password credentials, while some support X.509 certificates for user authentication.

The consensus is that, in the near future, the EGI Cloud Federation will use X.509 certificates as federated identity mechanism to access the Cloud infrastructure services provided by Cloud providers. **(see Action 01/07).**

The EGI Repository for EGI Trust Anchor will be used for that purpose **(see Action 02/07).**

Cloud providers that use OpenNebula shouldn't run into problems as OpenNebula supports this already. Cloud providers using other VM Management software will have to seek support from their Technology Provider.

CloudSigma, as commercial provider, states that this may become an issue when integrating commercial Cloud providers, as there is little to no commercial drive to provide X.509 based authentication **(see Action 03/07).**

Agreement on AA technology and policy for VM access

It is the consensus that AAI technology *within* VM instances (e.g. SSH access to the VM instance) is entirely within the remit of the VM provider/user, and *out of scope* for this Task Force or any Cloud provider.

No action is required on the Task Force's side. Cloud providers may have to accommodate user requirements depending on the provider's internal network setup and layout.

Agreement on VO support

No further discussion on VO support.

Resource availability access policies

Item was not discussed.

Work group scenario 1 progress report

Round table reports

FZJ:

Still problems setting up the Cloud infrastructure; issues indicate this being an problem of OpenSUSE's integration of OpenStack. Will try alternative Linux Distributions to see whether that solves the issues. If all goes well users should be able to start using FZJ's Cloud by the end of the week.

CESNET:

No call participant.

CloudSigma:

Finished disabling the billing function for a specific set of trial accounts. The Task Force-specific process was circulated via Email to the mailing list **(see Action 04/07).**



Cyfronet:

Cloud administrators confirmed that for test-bed users an affiliation with PL-Grid is not necessary, so that users may enrol within the week (**see Action 05/07**).

GWDG:

No call participant.

Oxford:

Still in the process of deploying OpenStack on the Oxford cloud; expects one month still until users may use their cloud.

SARA:

No call participant.

TCD:

No call participant.

KTH:

Users have applied for accounts; provisioning of accounts finished, but no activity seen on the KTH Cloud yet (**see Action 06/07**).

INFN:

Expects their WNoDeS infrastructure ready for user enrolment by the beginning of next week. As a very new Resource Provider INFN has to update the resource inventory Wiki (**see Action 07/07**).

WeNMR:

No clear picture of actual Cloud usage. WeNMR would want to upload own images; call participants perceive this as out of scope for Scenario 1, which deals with VM Management, interface issues, and not running specific user services.

Call participants discuss how to solve this issue. Discussions touched the provisioning of a very simple “Hello World” or “Echo Server” service to provision VM images for WeNMR to use without further delay. Many Cloud providers (e.g. CloudSigma, KTH) already provide base images that users may use to install their own software on. The group eventually reaches consensus that provider base images should be used to provision user specific software to start (**see Action 08/07**).

Standardised interfaces for VM Management

Further discussions revolve around the specific goals of Scenario 1 and standard interfaces that should be provided on the API level. All Cloud providers report the availability of technology-specific APIs, and the majority report the availability of an OCCI interface.

Two interfaces emerge from the discussion: OCCI and Jcloud. Participants raise the concern that mandating a specific Cloud Management interface such as OCCI, Cloud providers may be limited in which functionality they may offer to their users. MD states that SDO-governed standards are paramount for the success of the Task Force (and the Cloud Federation), but underscores the fact that additional functionality that goes beyond any chosen standard offers two solutions that may be pursued in parallel:

- Provide this “missing” functionality in a proprietary way
- Describe this gap as a need to be taken to the respective SDO (e.g. OGF for OCCI).



MD further points out that such a gap analysis and submission to SDOs perfectly lies within the remit of the Task Force and that corresponding liaison contacts for SIENA and OGF (here: DCIFed Working Group) are included in the Task Force for exactly that reason **(see Action 08/07)**.

Work group scenario 2 report & planning

MH guides the discussion concerning standards to move data into and out of Virtual Machines. The participants discuss and agree that further discussion is required to clarify which issues and requirements concerning data movement need to be addressed; DW adds that it is important to talk to the user communities who will come up with requirements for the Task Force to solve.

The participants continue discussing how to start capturing requirements from user communities for a federated Cloud. SB volunteered to take initiative on starting this process and collect the requirements on the Task Force Wiki. **(see Action 09/07)**.

AOB

CloudSigma as Grid newcomer

MH points out that CloudSigma is new to the “Grid business” hence has trouble at times understanding language, concepts and architecture used in Grids. SB and the UCST volunteer to take care of this (no specific action assigned).

Integrated Information Systems workshop - request for input

MD initiates the discussion to contribute the Task Forces requirements for an integrated Information Discovery system. The participants agree that the Task Force should take initiative here **(see Actions 10/07 and 11/07)**.

ACTIONS

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08/02	FSI/MBo	<p>Fill in the inventory matrix (SARA) provided through Action 03/02</p> <p><u>27 Sep 2011</u>: No progress</p> <p><u>04 Oct 2011</u>: No progress, but was promised offline for this week.</p> <p><u>11 Oct 2011</u>: No progress; Matteo to follow-up (Action 01/05)</p> <p><u>18 Oct 2011</u>: No progress</p> <p><u>25 Oct 2011</u>: No progress</p>	OPEN
02/03	GSI/SBr	<p>Provide an introduction on the WIKI about the stakeholders, actors and terminology used in this Task Force</p> <p><u>04 Oct 2011</u>: No progress</p> <p><u>11 Oct 2011</u>: No progress</p> <p><u>18 Oct 2011</u>: No progress</p> <p><u>25 Oct 2011</u>: No progress; SB adds his responsibility to contribute but requires the review of TF members before publication on the Wiki.</p>	OPEN
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02/05	MTu	<p>Record Eucalyptus stability and coverage issues in the blueprint.</p>	OPEN

		<i>18 Oct 2011: No progress</i>	
		<i>25 Oct 2011: No progress</i>	
03/05	DOC	Report about the issues about policy and non-technical issues that do not allow TCD to make user accounts available to users. <i>18 Oct 2011: No progress</i> <i>25 Oct 2011: No progress</i>	OPEN
04/05	ZAS	Document the issues around IPv4 and IPv6 in the Wiki <i>18 Oct 2011: No progress</i> <i>25 Oct 2011: Documentation is in internal review with experts</i>	OPEN
05/05	Clo	Evaluate and document StratusLab status for IPv6 support <i>18 Oct 2011: No progress</i> <i>25 Oct 2011: No progress</i>	OPEN
06/05	DCe	Evaluate and document EGI-InSPIRE JRA1 status for IPv6 support <i>18 Oct 2011: No progress</i> <i>25 Oct 2011: In progress</i>	OPEN
03/06	MHi	Merge the circulated spreadsheet into the wiki website. <i>25 Oct 2011: No progress</i>	NEW OPEN
01/07	MDr	Develop roadmap for X.509-based federated identity for Cloud infrastructure access.	NEW
02/07	MDr	Provide links to the EGI Trust Anchor repository.	NEW
03/07	MHi	Document issues around using X.509 based AuthN for Cloud infrastructure access. Include suggestions for mitigation for user communities.	NEW
04/07	MVe	Remind WeNMR users to enroll ASAP with CloudSigma	NEW
05/07	MVe	Remind WeNMR users to enroll ASAP with Cyfronet	NEW
06/07	MVe	Ensure that users actually use the KTH Cloud	NEW
07/07	GDo/PVe	Update the resource inventory Wiki for INFN as Resource Provider	NEW
08/07	ZAS/MHi	Compare JCloud and OCCl, and document the gap analysis for a submission to OGF's OCCl WG for further consideration and standardisaion.	NEW
09/07	SBr/UCST	Start a user community orientated Wiki to start capturing specific requirements related to the six scenarios	NEW
10/07	MDr	Start rearranging the Wiki so that it better suit the capturing and digesting requirements, both from provider and user community	NEW



point of views.

11/07	MDr	Start collecting information as input and contribution to the Information System workshop.	NEW
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Minutes prepared by Michel Drescher, 6 September 2011

Minutes Approved Task Force Chair Matteo Turilli

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