

Cloud Computing for the UK Research Community

Report of Contributions

Contribution ID: 0

Type: **not specified**

Workshop Introduction

Thursday 28 November 2013 14:00 (15 minutes)

- Welcome to the Crick Institute from Alison Davis (ICT Director)
- Introduction to the workshop, Philip Kershaw

Presenter: KERSHAW, Philip (STFC Rutherford Appleton Laboratory)

Contribution ID: 1

Type: **not specified**

Windows Azure for Research

Thursday 28 November 2013 14:15 (30 minutes)

Windows Azure is an open and flexible global cloud platform supporting any language, tool, or framework, and is ideally suited to researchers' needs across disciplines. The Windows Azure for Research program provides researchers with a variety of tools and resources to help them use Windows Azure to access the power of cloud computing for on-demand computation, collaboration, and data-intensive processing. Participants have the opportunity to respond to requests for proposals for Windows Azure awards and access training and technical resources. For more details see www.azaure4research.com

Presenter: Dr TAKEDA, Kenji (Microsoft Research)

Session Classification: Matching Public Clouds to the Needs of the Research Community

Contribution ID: 2

Type: **not specified**

Confessions of a Cloud Builder

Thursday 28 November 2013 14:45 (30 minutes)

An open and frank recount of the challenges faced by Cloud providers in meeting the varied requirements of Cloud consumers, from the technical challenges through to the operational alignments with clients from different market sectors and how with the latest technologies can solve many of the issues that existed with Cloud 1.0.

Presenter: RYAN, Adam (Q Associates)

Session Classification: Matching Public Clouds to the Needs of the Research Community

Contribution ID: 3

Type: **not specified**

Research Computing on Amazon Web Services

Thursday 28 November 2013 15:45 (30 minutes)

In this session I'll describe some of the building block services available through AWS that can be leveraged to enable greater agility and speed in delivery of Research outcomes.

Presenter: HAYMAN, Chris (Amazon Web Services)

Session Classification: Matching Public Clouds to the Needs of the Research Community

Contribution ID: 4

Type: **not specified**

The EGI Federated Cloud, using standards to create a fair and open European Cloud marketplace

Friday 29 November 2013 09:00 (30 minutes)

The EGI Federate cloud has been active for two years, within that time it has moved from an idea on how using standards you can build a federation of private and smaller public cloud providers to an activity that is currently connecting national cloud services within three countries alongside smaller clouds from elsewhere. It has also bought the EGI its first commercial resource provider which we use as a showcase of how with the creation of an open marketplace different classes of providers, business models and SLA are able to be supported to provide resources to different communities with different expectations.

Presenter: Dr WALLOM, David (Oxford e-Research Centre)

Session Classification: Cloud Federation and Brokering

Contribution ID: 5

Type: **not specified**

Janet Cloud Services

Friday 29 November 2013 09:30 (30 minutes)

Presenter: MILNER, John (JANET)

Session Classification: Cloud Federation and Brokering

Contribution ID: 6

Type: **not specified**

Helix Nebula, the Science Cloud

Friday 29 November 2013 10:00 (30 minutes)

Helix Nebula, the Science Cloud initiative is a Partnership between big science and big business to implement the Strategic Plan for a Scientific Cloud Computing Infrastructure in Europe. The presentation is about HN objective, strategic plan, final goal and the present implementation status.

Presenter: Dr CASU, Francesco (CNR)

Session Classification: Cloud Federation and Brokering

Contribution ID: 7

Type: **not specified**

Virtualisation and Cloud Computing at EBI

Friday 29 November 2013 11:00 (30 minutes)

The European Bioinformatics Institute (part of the European Molecular Biology Laboratory) runs four data centres that supports the production of diverse genomic databases and delivers these databases through its web interfaces to over 3M unique visitors each year. The presentation will provide an overview of how virtualisation is used to manage the data centres and this technology is now being used to provide a cloud infrastructure to its collaborators.

Presenter: NEWHOUSE, Steven (EMBL-EBI)

Session Classification: Private Cloud Deployment

Contribution ID: 8

Type: **not specified**

Software Defined Research Computing

Friday 29 November 2013 11:30 (30 minutes)

The presentation will focus on the enhancement that VMware technology can bring to high performance computing through pooling of resources, proactive management, automation and consumerisation of IT assets.

Presenter: GHAZANFARI, Arash (VMware)

Session Classification: Private Cloud Deployment

Contribution ID: 9

Type: **not specified**

CERN Private OpenStack Cloud

Friday 29 November 2013 12:00 (30 minutes)

CERN IT is providing an OpenStack private cloud for its experiments as well as for individual users. Since Summer 2013, the service is in production, and we are growing it rapidly.

We will present details about our cloud use cases, the production deployment and an outlook for 2014.

Presenter: VAN ELDIK, Jan (CERN)

Session Classification: Private Cloud Deployment

Contribution ID: 10

Type: **not specified**

Cloudy with a Chance of Rootkits - Assurance Requirements for e-Infrastructure Services

Thursday 28 November 2013 16:15 (30 minutes)

The Higher Education sector has recently benefited from substantial government investment in e-Infrastructure services for use by research and industry, such as the regional supercomputing centres. This talk will look at the steps the sector needs to take to create trustworthy services that our R&D partners in industry will be happy to use, drawing upon Martin's experience running the HPC Midlands supercomputer centre. Subject matter will range from legal and contractual underpinnings to practical technical steps around information assurance.

Presenter: HAMILTON, Martin (University of Loughborough)

Session Classification: Matching Public Clouds to the Needs of the Research Community

Contribution ID: **11**

Type: **not specified**

Discussion

Thursday 28 November 2013 16:45 (30 minutes)

Discussion following from the presentations and an introduction to the Cloud-SIG and its objectives

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