

# Using VAMDC: tutorial introduction

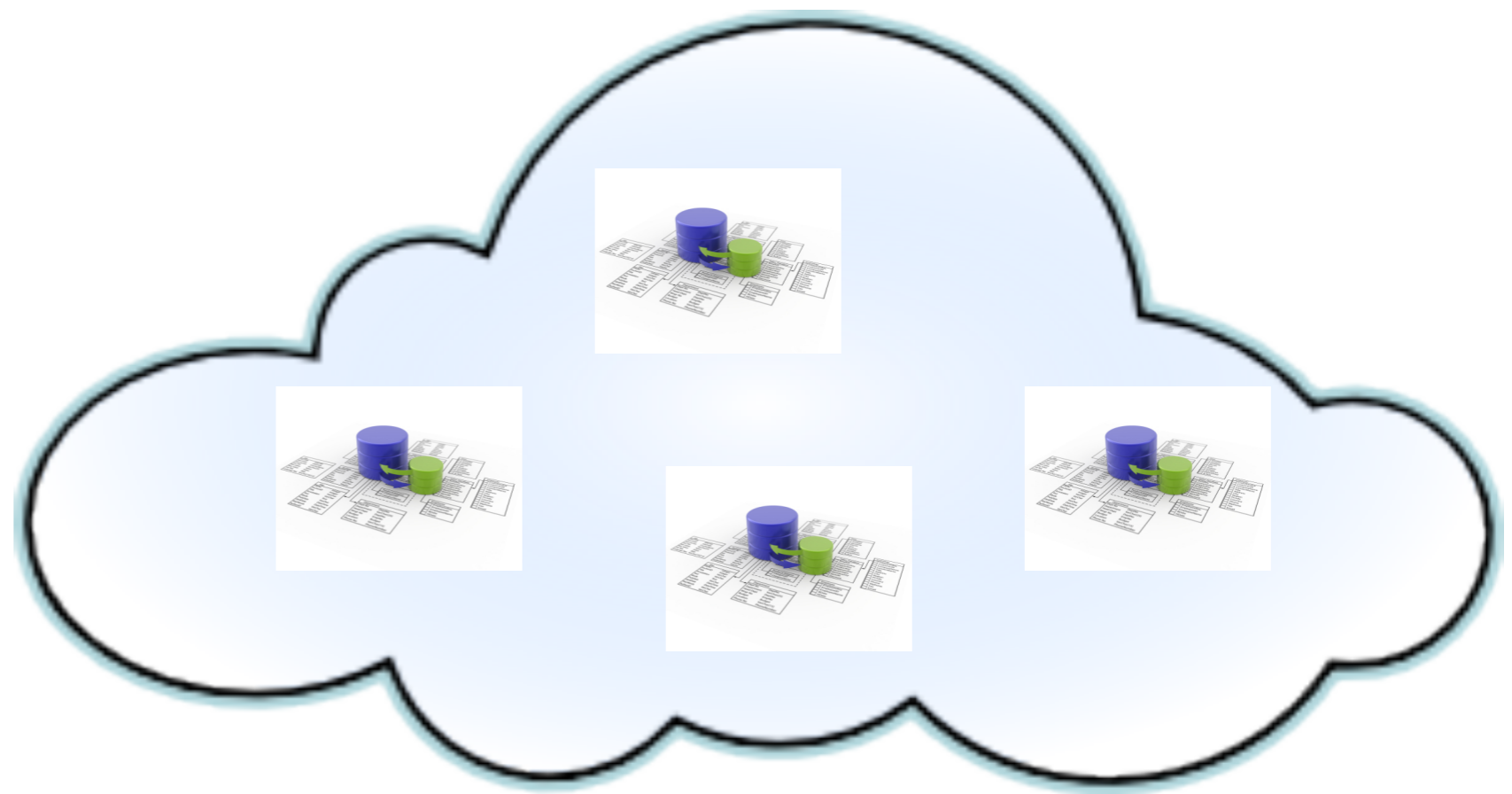
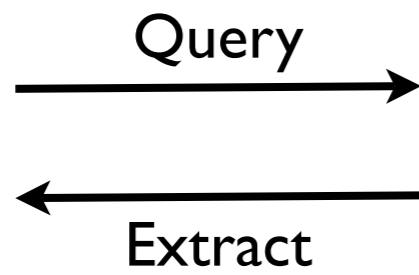
Guy Rixon

VAMDC annual meeting 2013, Open University

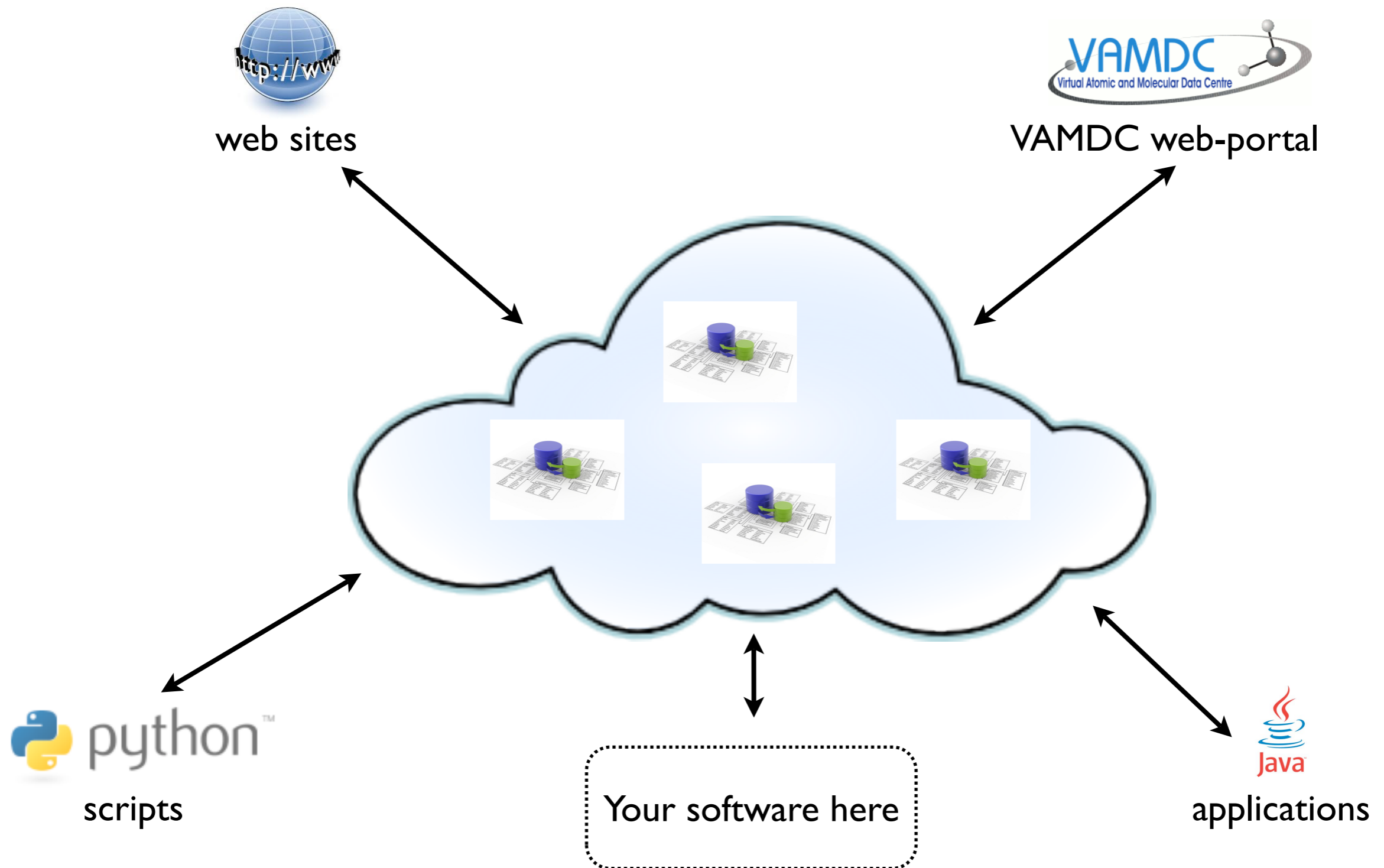
# Tutorial agenda

- 09:45 - 10:00 Context of using VAMDC
- 10:00 - 11:00 Demonstrations
- 11:00 - 12:30 Hands-on exercises
- 12:30 - 13:00 Discussion

# VAMDC is in the cloud



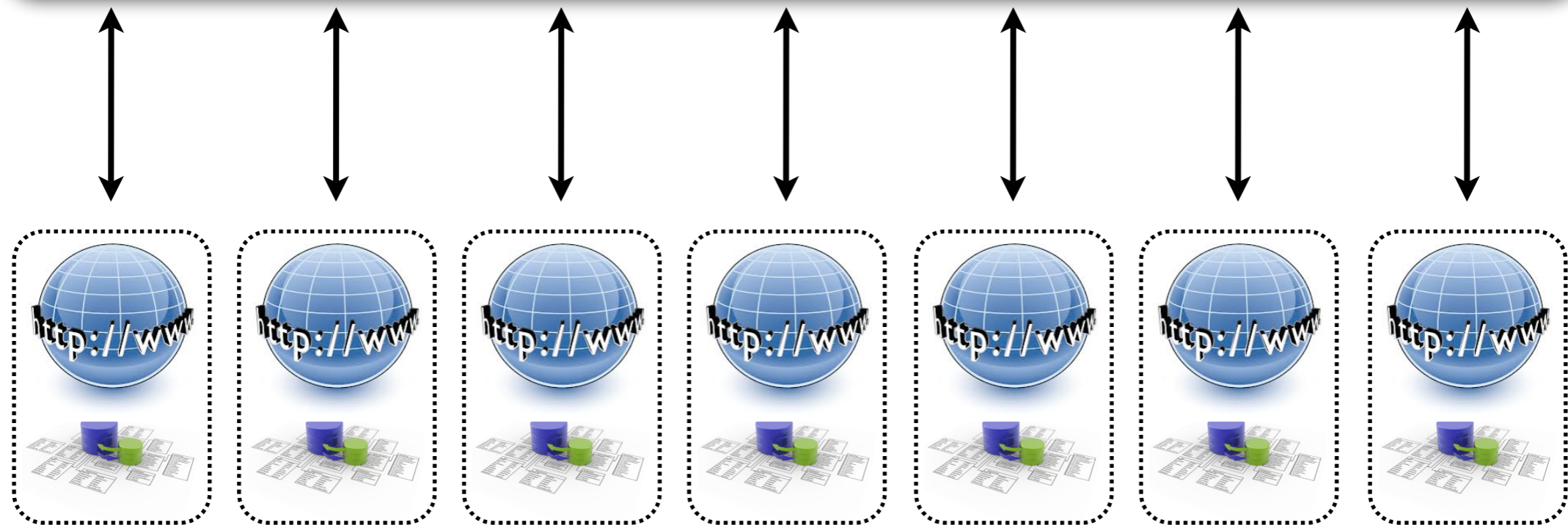
# Many UIs



# A flock of databases



Science application



VAMDC  
data  
nodes

# Two-stage selection

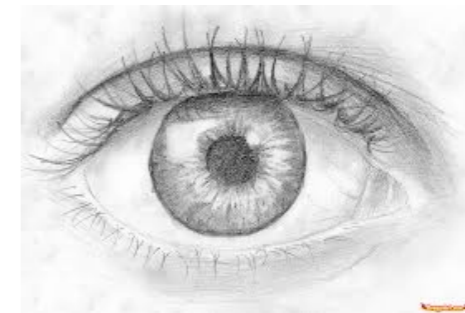


Select



XSAMS

Filter and  
extract



OR



Science code

# XSAMS

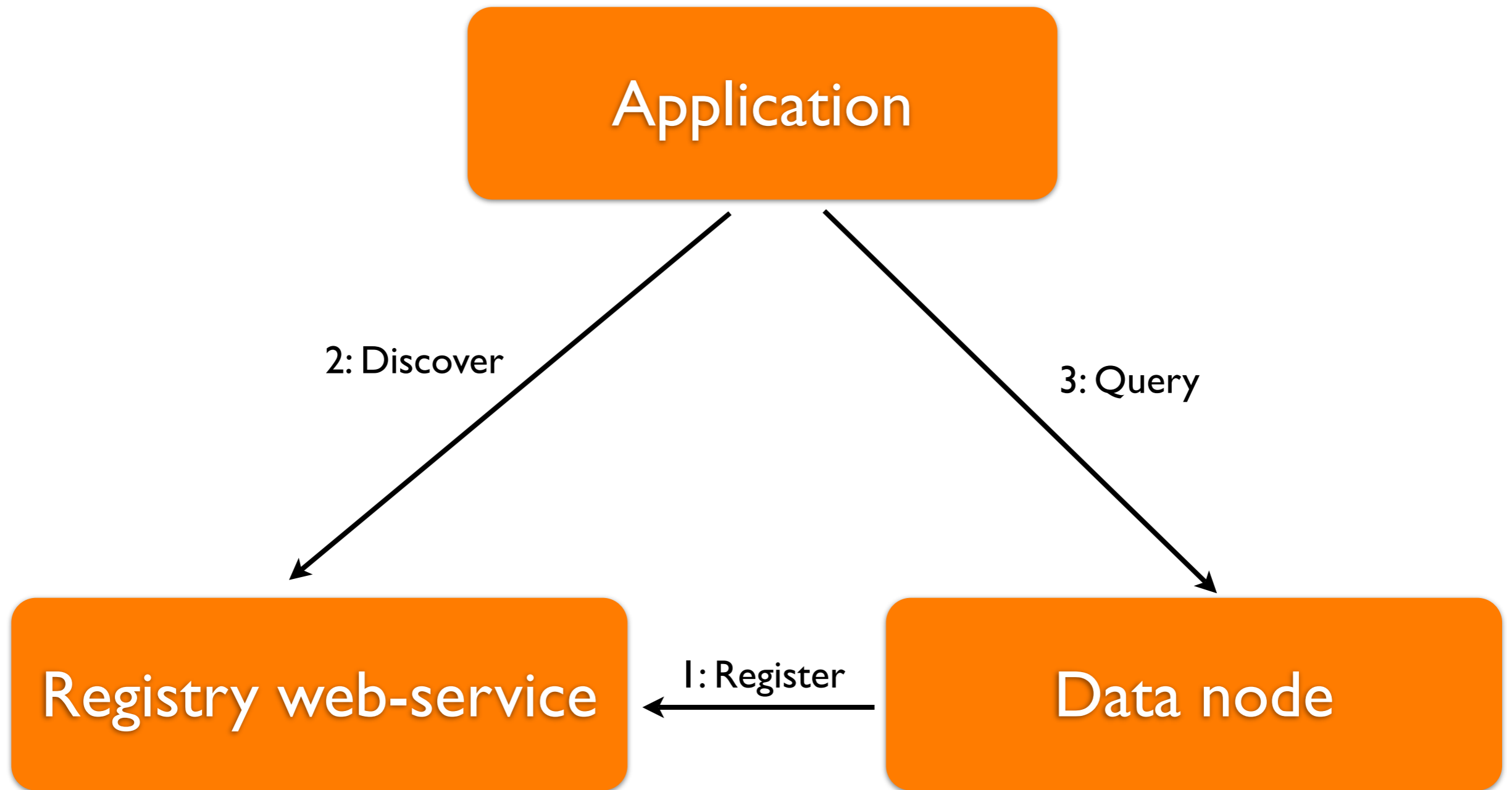
- XML Schema for Atoms, Molecules and Solids
- IAEA originally; developed by VAMDC
- Rich  $\Rightarrow$  good for transforming to other formats
- See <http://www.vamdc.eu/documents/standards/dataModel/vamdcxsams/index.html>

# Some UIs and applications

- VAMDC web portal - the starting point
- SpectCol - combine spectroscopy and collisions
- Specview - STScI's spectrum viewer with VAMDC support
- Query Builder - app to generate queries for scripting
- VAMDC as IVOA PDL service - astronomy integration
- Taverna - workflow engine with VAMDC plug-in
- Selection of Python scripts from VAMDC



# Finding things: registry

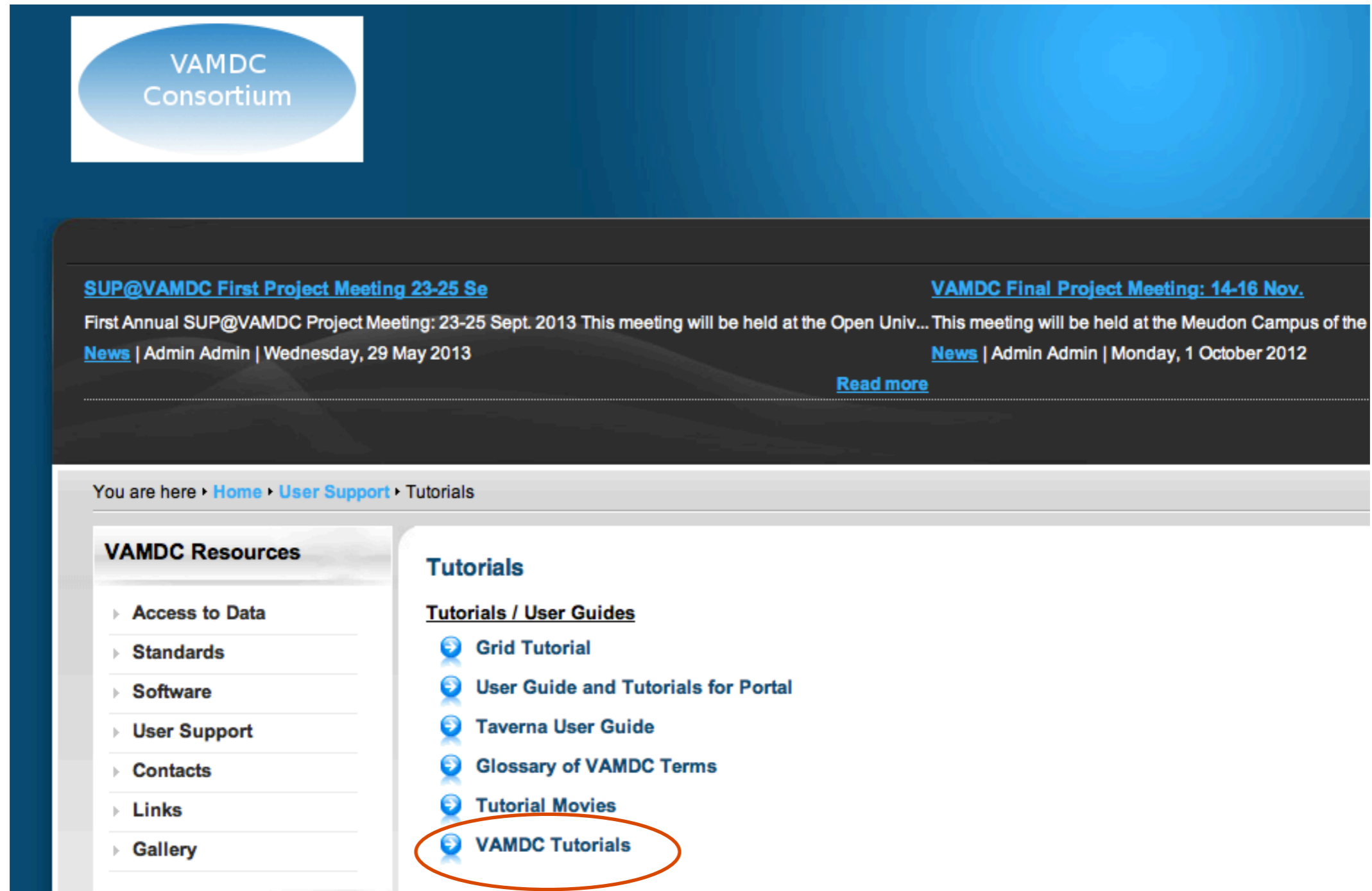


Avoids hard-coding addresses: data nodes may move

**Demonstrations...**

# Hands-on exercises

<http://www.vamdc.eu/usersupport/tutorials>



VAMDC Consortium

[SUP@VAMDC First Project Meeting 23-25 Se](#) [VAMDC Final Project Meeting: 14-16 Nov.](#)  
First Annual SUP@VAMDC Project Meeting: 23-25 Sept. 2013 This meeting will be held at the Open Univ... This meeting will be held at the Meudon Campus of the  
[News](#) | Admin Admin | Wednesday, 29 May 2013 [News](#) | Admin Admin | Monday, 1 October 2012  
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**VAMDC Resources**

- ▶ Access to Data
- ▶ Standards
- ▶ Software
- ▶ User Support
- ▶ Contacts
- ▶ Links
- ▶ Gallery

**Tutorials**

Tutorials / User Guides

- ▶ Grid Tutorial
- ▶ User Guide and Tutorials for Portal
- ▶ Taverna User Guide
- ▶ Glossary of VAMDC Terms
- ▶ Tutorial Movies
- ▶ **VAMDC Tutorials**

# For those using OU's PCs

- Log on to windows as vamdc
- Start VirtualBox VM - it runs Ubuntu Linux
- Log on to VM as vamdc
- System Python has relevant modules
- Look in ~/resources for some pre-installed apps
- Copy anything you want to keep before end of day