

Integrating multi-disciplinary knowledge online

GRAVITATE preliminary deployment architecture

Server1

- Public Endpoint (including security layer)
- NGINX Proxy
- ResearchSpace (Web Application)
- Blazegraph+Triplestore & SQL DBMS*

Spec:

- Dual Processor Quad Core 2GHz - Cache: 16 MByte
- RAM: 64 GByte
- Disk: 60 Gbyte + OS
- OS: Ubuntu 16.04

LAN

We need the servers to be on the same LAN for performance reason

Server2

- Algorithm Scheduler/Manager****
- Docker Containers (~1, 2 algorithms for each container) → ~6 containers in total

Shared File System

This machine should support the parallel execution of at least 2 containers.

Spec:

- Dual Processor Quad Core 2GHz
- RAM: 64 Gbyte
- Disk: 60 Gbyte + OS
- OS: Ubuntu 16.04
- Other: Matlab Full Server License [Waiting for an answer]

A new colour, previously unknown – Yellow – has been identified on the earrings' decoration.

The Cyprus Institute

- Use of digital repository to generate new knowledge and service for the scientific community
- Research on the integration of scientific measurements with 3D geometry data
- Service for virtual restoration of fragmented artifacts

Impacts and recognition

- Impact
 - New approach to data repositories
 - Generation of new knowledge for scientific community
 - Tools for online data analysis
 - Importance of knowledge repositories for daily practice in archaeology and related disciplines
- Also ...
 - Involvement of public institutions
 - Stimulated further research to fill identified gaps
 - Participation in further research initiatives
 - Integration of our institution in E-RIHS (ESFRI infrastructure)
- *“A system ... would help greatly in organizing our material, and in speeding up, justifying, and documenting our identifications and reconstructions....”* – Raphaël Panhuysen, forensic anthropologist.

