PROIECTE ROMÂNEŞTI DE SERVICII SOFTWARE ÎN PROGRAMUL FP7

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UNDE ESTE UTILIZATA E-INFRASTRUCTURA PENTRU SERVICII SOFTWARE IN FP7

- FP7-ICT:
  - Obiectivul 1.2 “Cloud Computing, Internet of Services and Advanced Software Engineering” : ICI (apel 1), UVT (apel 4), IeAT, Romtelecom (apel 5)
  - Pentru domenii de aplicatii: de exemplu, servicii pentru energie – UTCN si IeAT (apel 2)

- FP7-Capacities:
  - Research e-infrastructures, EGI sau HP-SEE: ICI, IFIN, UPB, UVT, UTCN, ITIM
  - REGPOT: UPB, UVT

Date despre contributii romanesti in categoria serviciilor software disponibile www.sprers.eu (FP7-SPRERS, UVT)

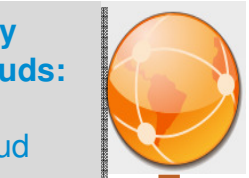
STUDIU DE CAZ/FP7-ICT: PROIECTUL MOSAIC (IEAT – SCIENTIFIC COORDINATOR)

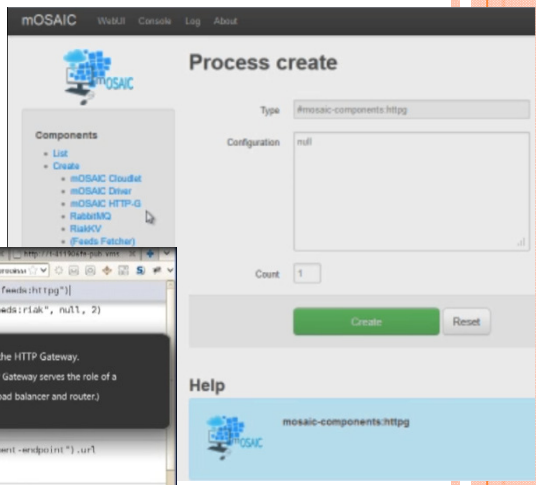
Portability of applications between Clouds

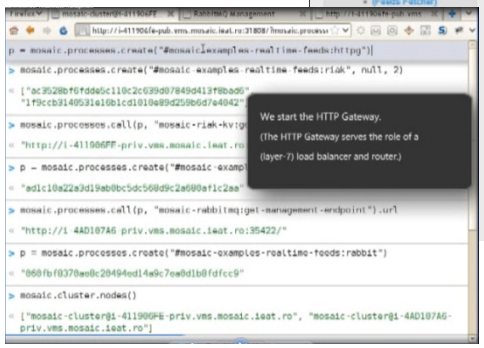
Open-source code: bitbucket.org/mosaic
Documentation: developers.mosaic-cloud.eu

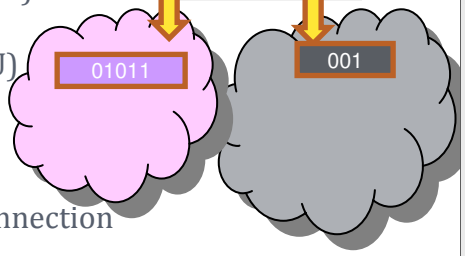
On-the-fly Multiple Clouds:

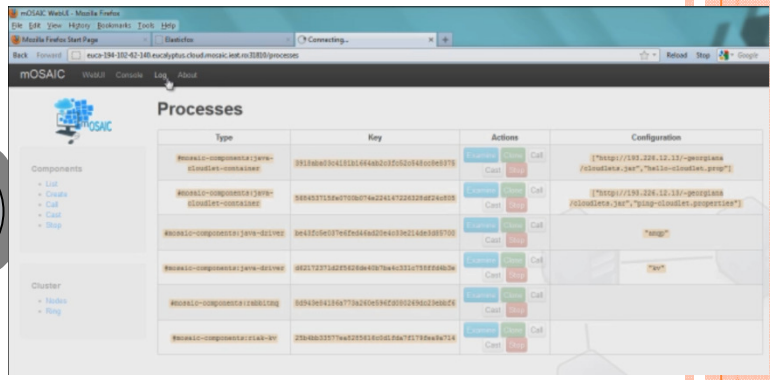
Cross-Cloud
or
Sky computing











Resurse: IBM Blade Center

CPU: 100x Intel Quad-Core 2.00Ghz (400 cores)
RAM: 10GB/CPU
HDD: 145GB local SAS / blade-server (2x CPU)
Inter-connect: 40Gbps 4xQDR Infiniband
Remote storage: 4Gbps FiberChannel Fabrics
Administrative network: 2x 1Gbps Ethernet
Internet connection: 8x 1Gbps aggregated connection

STUDIU DE CAZ/FP7-CAPACITIES HOST AND HP-SEE (UVT)

IBM Blue Gene/P ,
1024 CPUs, 4TB RAM memory.
11.7 TFlops sustained performance.

Computational power:
1x BG/P Rack
- CPU: 1024x Quad-Core PowerPC-450 850Mhz;
- RAM: 4GB/CPU
- inter-connect: 3D-Torus network

Storage systems:
2x I/O Nodes
- delivering storage, to the BlueGene/P rack, on a 10GbE Ethernet network;

2x IBM DS3524 SAN's
- HDD: 48x 320GB SAS
- connectivity: 10GbE Ethernet

HOST (http://host.hpc.uvt.ro) – coordonator UVT
2.4 mil Euro pentru a creste vizibilitatea centrului HPC de la UVT
Pozitii pentru cercetatori in HPC
Organizare workshopuri

HP-SEE (http://www.hp-see.eu): UVT participant

Efficient unsupervised classification of large satellite images