Сервисы EOSC, доступные из каталога NI4OS-Europe

NI4OS-Europe National End-Users Training Event in the Domain of Open Science for Moldova, November 18, 2021

Николай Ильюха, RENAM



Presentation plan



1. List of On-boarded resources

- Repositories
- Thematic services
- Generic services
 - HPC/HTC services
 - Cloud services
 - Storage services
 - Other generic services



- Cloud services (RSC, RENAM Scientific Cloud)
- Storage services (RSS, RENAM Storage Service)
- Other generic services (Virtualization cluster on Proxmox, Monitoring in Zabbix)
- 3. Questions and answers



Repositories



Repository	On-boarding dashboard page
Repository of Faculty of Science, University of Zagreb	https://catalogue.ni4os.eu/?_=/resource/id/ 0eed0440-917e-44a9-a324-aee1d0873744
Meteorological and Hydrological Service of Croatia Repository	https://catalogue.ni4os.eu/?_=/resource/id/ 33c74095-a1e1-4326-9511-77a794a39489
Repository of the Institute of Public Finance, Zagreb	https://catalogue.ni4os.eu/?_=/resource/id/ 3d3a3b00-0936-44f6-b01a-bfcda9b0145d
HELIX Data	https://catalogue.ni4os.eu/?_=/resource/id/ 4c7896d0-0945-42d0-bdf7-c31a090f00ae
UKIM Repository	https://catalogue.ni4os.eu/?_=/resource/id/ ee7096b3-6aa7-468e-accd-e6dcad722678

Thematic services



Repository	On-boarding dashboard page
Live Access Server	https://catalogue.ni4os.eu/?_=/resource/id/3d243e51- 9224-4ae3-810b-9d3c5a311193
Clowder4DCH	https://catalogue.ni4os.eu/?_=/resource/id/d0c2baae- 45dc-496f-922c-dcb051ce5fc0
DREAM	https://catalogue.ni4os.eu/?_=/resource/id/4799d746- e9cd-4a61-be59-2e0a2aa88600
Schrodinger	https://catalogue.ni4os.eu/?_=/resource/id/c28834c3- 0402-421a-8cd3-be8f862f7b10
Airpolution prediction	https://catalogue.ni4os.eu/?_=/resource/id/ce2f1db4- c0d2-436c-bb45-ba9ca04fb625
ОМАрр	https://catalogue.ni4os.eu/?_=/resource/id/7919d83d-a02d-4b39-87cb-a1db40419f06
IoT Cloud Platform	https://catalogue.ni4os.eu/?_=/resource/id/923fb0a9- 253f-4ddc-a71c-3fb1dbf017c7
High Energy Solar Particle Events foRecastIng and Analysis	https://catalogue.ni4os.eu/?_=/resource/id/c41e1ab7- bf1e-488b-bb00-c0edc0b844e2

Generic services



Repository	On-boarding dashboard page
Simple storage service	https://catalogue.ni4os.eu/?_=/resource/id/986f7994- e45a-4f07-b05f-df40f78a8508
Data discovery service	https://catalogue.ni4os.eu/?_=/resource/id/117c2e24-c2af- 47b4-8dcc-7a2892d88e84
Avitohol cloud	https://catalogue.ni4os.eu/?_=/resource/id/45ba1dd6-6bc5-4974-b20c-c27dbbb6aa6f
ARIS	https://catalogue.ni4os.eu/?_=/resource/id/fe5d5668- e435-4bae-ac93-b44c7e04f155
Archival service	https://catalogue.ni4os.eu/?_=/resource/id/a40c074d-f507- 48b8-9970-8276bc5b0c87
Cyl Cloud Facility	https://catalogue.ni4os.eu/?_=/resource/id/43b7bd0a- 39e1-47d8-807a-5cf5554ece2e
Cy-Tera	https://catalogue.ni4os.eu/?_=/resource/id/7ef76b56-0fbc- 4bb6-883a-127539b535d6
ONYX	https://catalogue.ni4os.eu/?_=/resource/id/9695ac3f-8169- 4646-be7e-372778dec0e5

RSC, RENAM Scientific Cloud (cloud.renam.md)



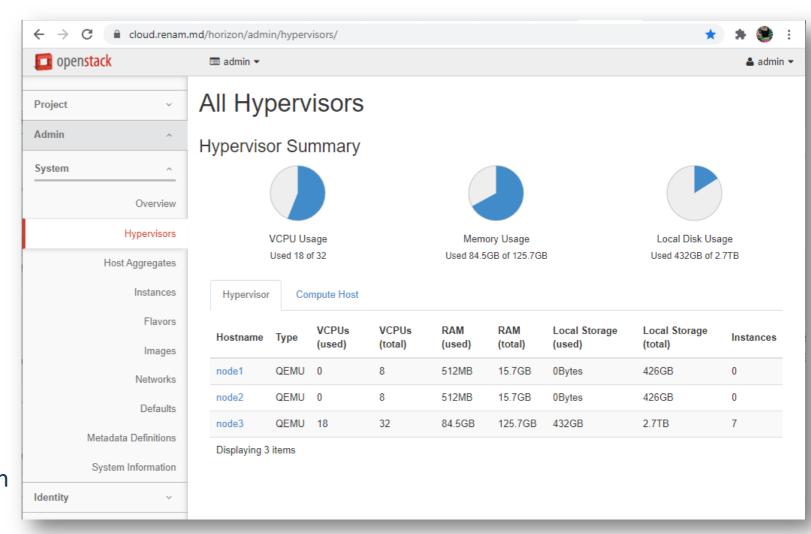
OpenStack Mitaka

Currently one node with:

- 32 CPU Threads;
- 128 GB RAM
- 2.7TB non-SSD HDD;
- 1 Gbit/s internal network;
- 1 Gbit/s public network;
- 15 public IP addresses;

New cloud under construction:

- Computing Nodes High-Performance DELL servers;
- 10G fiber optics internal and external connections;
- OpenStack Block Storage (Cinder) for store user data;
- Self-service networking model with a larger set of public IP addresses;
- Latest stable OpenStack release;



RENAM Scientific Cloud users and use-scenarios



The main users of the RSC are:

system administrators, programmers, teachers, students, researchers and participants in joint projects from Institutes, Universities and Academic Organizations.
RSC is also actively used by RENAM employees.

Use-scenarios:

- Agree on a resource quota;
- Create project;
- Provide access;
- User support.

DEMO:

- Projects and quotas;
- VM Images;
- VM Flavors;
- Security groups (firewall);
- Launch an instance;
- SSH keys and VM access;



RSS, RENAM Storage Service (ni4osstor.renam.md)



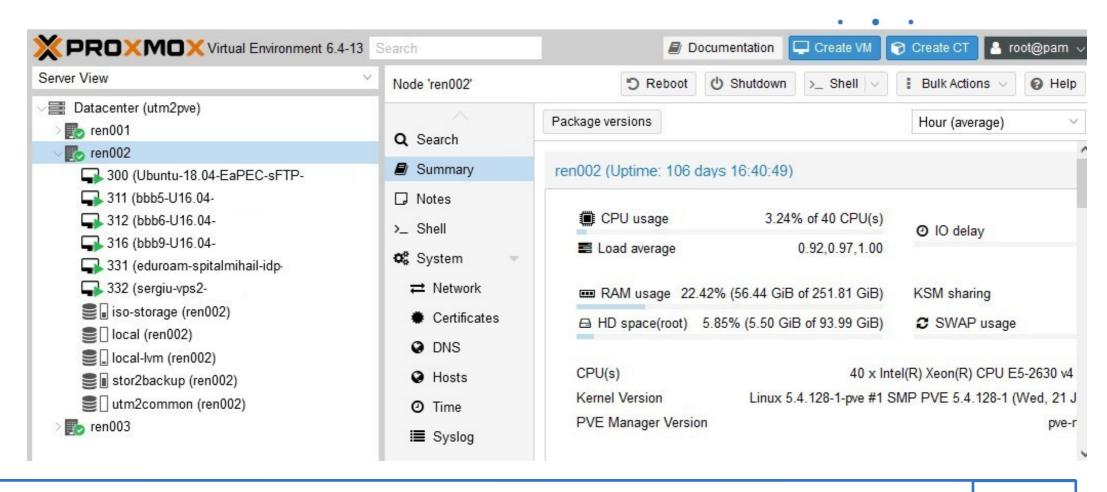
Services on storage: FTP, NFS, SMB, WebDAV



Virtualization cluster on Proxmox



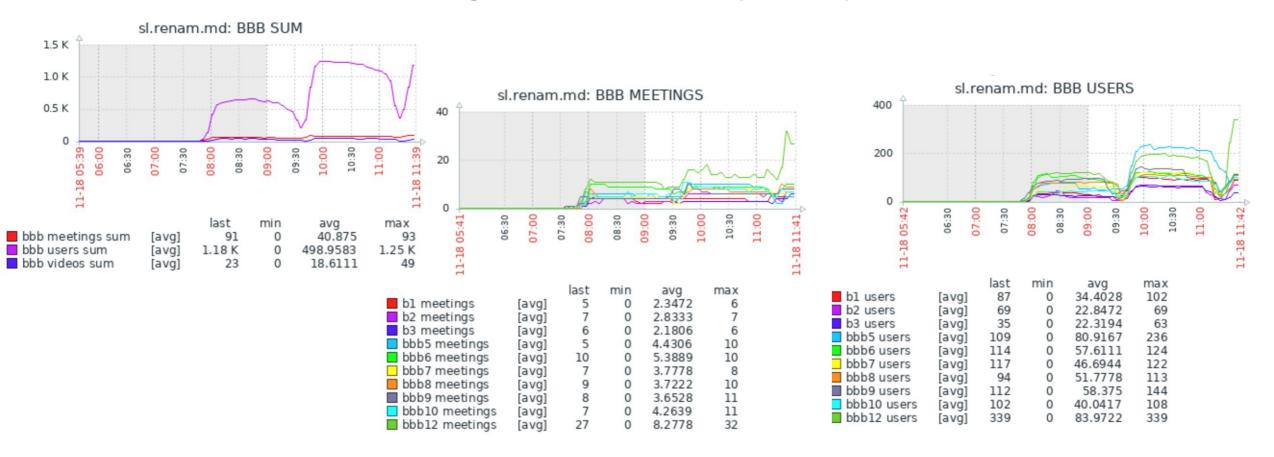
3 servers in cluster. 120 CPU, 768 Gb RAM, 12 Tb HDD



VM Monitoring with Zabbix



Monitoring of BigBlueButton cluster (14 VMs)



Questions and answers





Thank you!

Any questions?

RENAM, Chisinau, Moldova

Website: www.renam.md

Social media: @RENAM.MD @RENAM_AO