

Alexandros Nakos

Institute of Accelerating Systems & Applications (IASA) nakos.al@iasa.gr







Introduction

Provides a set of graphical interfaces to high-level services, in order to deploy and manage Virtual Machines and Virtualized Appliances on the EGI Federated Cloud.

As a sub-service of the AppDB system, it enables centralized cloud resource discovery and operations via data from integration with several other services:

- EGI AAI Check-In
- EGI Operations portal
- EGI Configuration Database (GOCDB)
- Argo monitoring system
- Argo messaging service (AMS)
- Cloud-info-provider
- Infrastructure Manager (IM)
- and more...

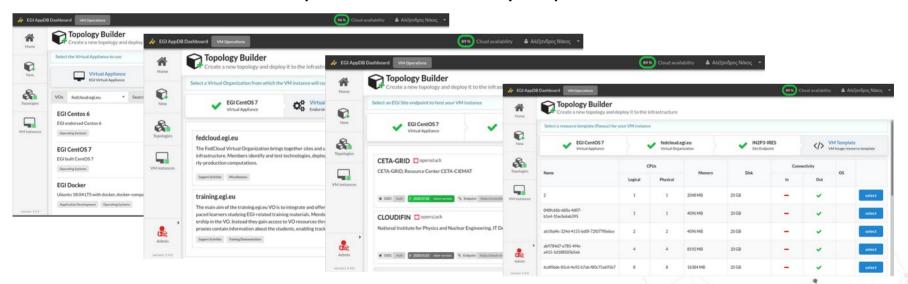






Introduction

- Easy VM deployment with a wizard-like interface, helping users select from the available resources, configure, and deploy a VM in a few clicks
- Manage and monitor the deployed VMs in a single page
- Perform ad-hoc operations on deployed VMs
- Enables users to contact cloud provider administrators for troubleshooting
- Informs users about cloud provider availability to prevent invalid actions







EGI AppDB VMOps dashboard What's new

Backend changes:

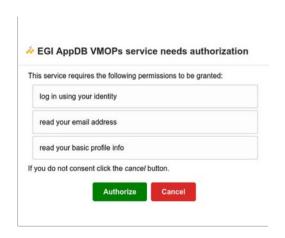
- Migration from BDII to cloud-info-provider/Argo Messaging Service(AMS) as the infrastructure information source
- Migration from GLUE2.0 to GLUE2.1 schema
- Migration to cloud native APIs(OpenStack) from exclusively using OCCI APIs.
- Migrate to OpenID Connect (OIDC) from proxy certificates(x509) authentication



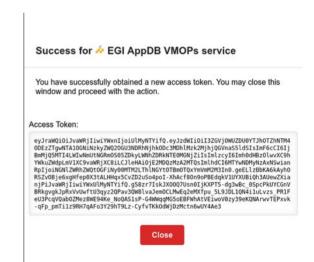


EGI AppDB VMOps dashboard *OIDC flow*

Users must provide their consent to create and use an access token when trying to perform VM actions











Future plans

Things to keep in mind:

- Continue supporting VMs deployed with x509
- Supported VO list is revised
- First release using the new information system

Future plans:

- More ad-hoc functionality (eg adding/removing VMs to existing topologies)
- Make further use of new information system, such as cloud providers network resources, SLAs etc

You can access EGI VMOps Dashboard at https://dashboard.appdb.egi.eu/vmops

EGI: Advanced Computing for Research



