



Contribution ID: 65

Type: **Demonstration**

Using Dynamic DNS service in EGI Cloud infrastructure

Wednesday, October 20, 2021 1:00 PM (15 minutes)

Nowadays, more and more services are dynamically deployed in Cloud environments. Usually, the services hosted on virtual machines in Cloud are accessible only via IP addresses or pre-configured hostnames given by the target Cloud providers, making it difficult to provide them with meaningful domain names.

The Dynamic DNS service provides a unified, federation-wide Dynamic DNS support for VMs in EGI infrastructure. Users can register their chosen meaningful and memorable DNS host names in given domains (e.g. my-server.vo.fedcloud.eu) and assign to public IPs of their servers. By using Dynamic DNS, users can host services in EGI Cloud with their meaningful service names, can freely move VMs from sites to sites without modifying server/client configurations (federated approach), and can request valid server certificates in advance (critical for security).

The tutorial will provide live demonstration and practical advice on using Dynamic DNS service in realistic user scenarios.

References:

- Dynamic DNS service portal: <https://nsupdate.fedcloud.eu/>
- Documentation: <https://docs.egi.eu/users/cloud-compute/dynamic-dns/>

Speaker bio:

Dr. Viet Tran is a senior researcher of the Institute of Informatics, Slovak Academy of Sciences (IISAS). His primary research fields are complex distributed information processing, grid and cloud computing, system deployment and security. He received M.Sc. degree in Informatics and Information Technology, Ph.D. degree in Applied Informatics from the Slovak University of Technology (STU) in Bratislava, Slovakia. He actively participates in preparations and solving a number of EU IST RTD 4th, 5th, 6th, 7th FP and EU-H2020 projects such as PROCESS, DEEP-HybridDataCloud, EOSC-Hub and EOSC-Synergy. He is the author or co-author of over 100 scientific publications.

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Primary author: TRAN, Viet (IISAS)

Presenter: TRAN, Viet (IISAS)

Session Classification: Demonstration