

# Dynamic DNS service for EGI Federated Cloud

*Wednesday, 4 November 2020 13:45 (15 minutes)*

Dynamic DNS service is critical for application and infrastructure services that are dynamically deployed in EGI Federated Cloud because it can:

- Improve user experiences by using memorable, sensible hostnames for the services hosted in the Cloud.
- Reducing cost of development/deployment by using predictable, reusable URLs for services so service URLs can be pre-set for clients and servers, that can greatly simplify the service deployment.
- Improve security of services deployed in Cloud as SSL certificates can be obtained in advance.
- Promote federated approach as services are independent from location of hosting VM in Federated Cloud
- Reduce cost for users and site admins as the Dynamic DNS service is very easy to use and no action required from site admins.

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

The service is currently hosted by Institute of Informatics SAS at <https://nsupdate.fedcloud.eu/>. More information is available at [https://wiki.egi.eu/wiki/Dynamic\\_DNS\\_tutorial](https://wiki.egi.eu/wiki/Dynamic_DNS_tutorial).

**Primary author:** TRAN, Viet (IISAS)

**Presenter:** TRAN, Viet (IISAS)

**Session Classification:** Cloud computing - Part 2