Network Management as a Service (NMaaS)

Introduction

Pavle Vuletić

*GN4-3 WP6T3 – Task Leader*

GÉANT Network Management as a Service (NMaaS)

Infoshare

November 25th 2020

www.geant.org
GEANT Infoshares are intended to create a space to engage, improve knowledge sharing and discussion about services and strategic topics, and to build a human network across the Research and Education community.

Co-organised by WP6 and GÉANT Partner Relations Team, within the Community Programme

Public Infoshares are on Wednesdays and are recorded.
Other Infoshares will be ‘invitation only’ events on other weekdays.

Go to the main Infoshares Wiki page to suggest future topics.

Recordings are available in the e-Academy, GLAD website and on Wiki pages after the event.

Questions: partner-relations@geant.org
Why NMaaS?

Lack of resources

You don’t have sufficient **resources** (servers, virtual machines) for network management apps

You have customers who don’t have sufficient resources to manage their infrastructure

Lack of staff

You don’t have enough **staff** who can install/manage the required infrastructure (servers/VMs/containers)

You have customers who want their network and server infrastructure to be managed by you

Lack of time

You want to install or **quickly** try (in few minutes) a new network management app

You want to focus solely on managing your services
NMaaS – a flexible platform

What?
“App store” offering Network Management ... in the cloud

For whom?
NREN End Institutions, GÉANT Project teams, and NRENs
NMaaS Key Benefits and Features

**SECURE**
Uses VPN technology to incorporate management platform instance into the network instance

**PLUG AND PLAY**
Cloud based platform reduces start-up costs and management overhead

**PRIVATE**
Each management instance is separated within the platform by design to maintain isolation
Allows institutions and projects to manage separate infrastructure
How can NMaaS be used?

**Option 1: Organisation implementation**

Each participating organisation offers a platform for their participating institutions

GÉANT Project co-ordinates development, standards and provides 2\textsuperscript{nd} level support for the software usage

**Option 2: GÉANT Project implementation**

GÉANT Project offers a centralised platform for participating NRENs and/or their institutions ("white labelled")

GÉANT Project co-ordinates development, standards and provides the 1\textsuperscript{st} and the 2\textsuperscript{nd} level support for NMaaS use
NMaaS contact and further information

Contact us at nmaas@lists.geant.org if you’d like to:

• monitor your equipment with tools offered by NMaaS
• share your own custom tools with the community via the NMaaS marketplace
• test NMaaS capabilities

Check out the latest NMaaS posts: https://wiki.geant.org/x/i5nTC

NMaaS information: https://wiki.geant.org/display/NMAAS
NMaaS production instance: https://nmaas.eu
NMaaS sandbox instance: https://nmaas.geant.org
NMaaS Infoshare – Agenda

• 13:00 – Introduction
• 13:10 – NMaaS concept, architecture and deployment
• 13:20 – NMaaS application portfolio
• 13:30 – NMaaS GÉANT production service
• 13:35 – NMaaS infrastructure requirements
• 13:45 – Demonstration
  • NMaaS for RARE
  • Application deployment process
• 14:05 – Q&A
Thank you

Any questions?

www.geant.org