

Network Management as a Service

NMaaS

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GN4-3 WP6T3 - NMaaS Service Manager

STF#21 Virtual meeting

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Restricted

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NMaaS in a nutshell

What?

“Market place” offering Network Management ... in the cloud
Production service developed and maintained by the GÉANT Project (WP6 T3)

For whom?

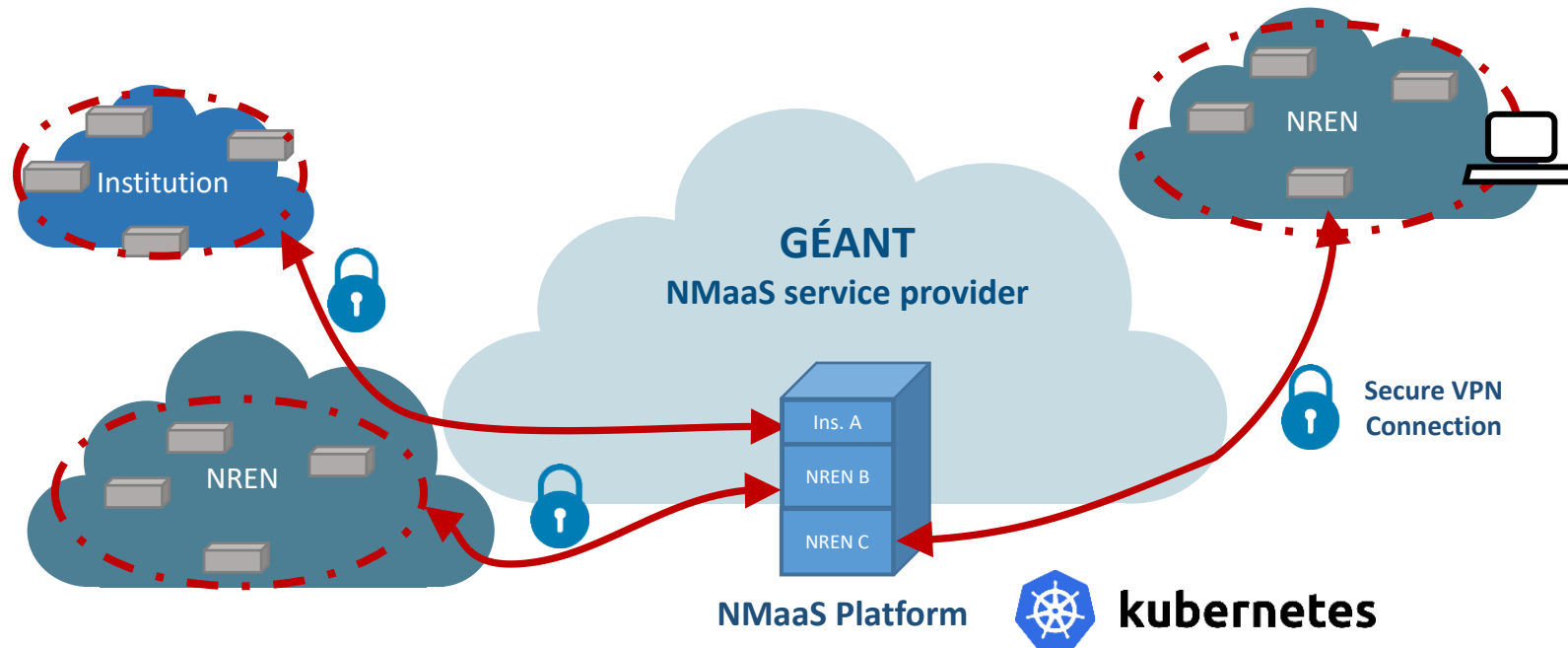
NREN End Institutions, GÉANT Project teams, and **NRENs**

Why?

To ease network management and monitoring software deployment, configuration and maintenance.
To allow users to focus solely on managing their services

Share network management knowledge !











How NMaaS works?



NMaaS uses a secure shared cloud platform managed by the GÉANT Project
Each user has a isolated tenant environment connected over a VPN to his network
Users can deploy and access network management applications via a web portal

NMaaS Tools portfolio

- 18 applications available in the marketplace
- Recently added

 <p>ELK Stack ★★★★★0 Elasticsearch, Logstash and Kibana</p>	 <p>WiFiMon ★★★★★0 Wireless Crowdsourced Performance Monitoring and...</p>	 <p>Statping ★★★★★0 Status Page & Monitoring Server</p>	 <p>Booked ★★★★★5 Web-based calendar and schedule</p>	 <p>InfluxDB ★★★★★0 Time series database</p>	 <p>Jenkins ★★★★★0 Leading open-source automation server</p>
 <p>perfSONAR pSConfig Web Admin ★★★★★0 Web-based UI for perfSONAR administrators</p>	 <p>perfSONAR esmond ★★★★★0 Central Measurement Archive</p>	 <p>perfSONAR MaDDash ★★★★★0 Monitoring and Debugging Dashboard</p>	 <p>perfSONAR Central Management ★★★★★0 perfSONAR Central Management</p>		

- Currently on the roadmap



NMaaS Key Benefits



**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



SECURE

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

NMaaS users

- **NMaaS production deployment**
 - Franjo Malgaj Primary School (Slovenia)
 - CYNET
 - HEANET
 - RARE project
 - MP-LS domain
 - PerfSONAR
 - WIFIMON
- **Ongoing discussion**
 - FAU
 - GrNet
 - GRENA
 - LITNET
 - RENATER Regional Network

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 contact and further information



NMaaS Infoshare: 25 November 2020, 13:00
please register at <https://events.geant.org/event/222>

Thank you

Any questions?

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