

GÉANT Network Management as a Service

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PSNC RENATER GARRLab

WORK
SHOP
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2021

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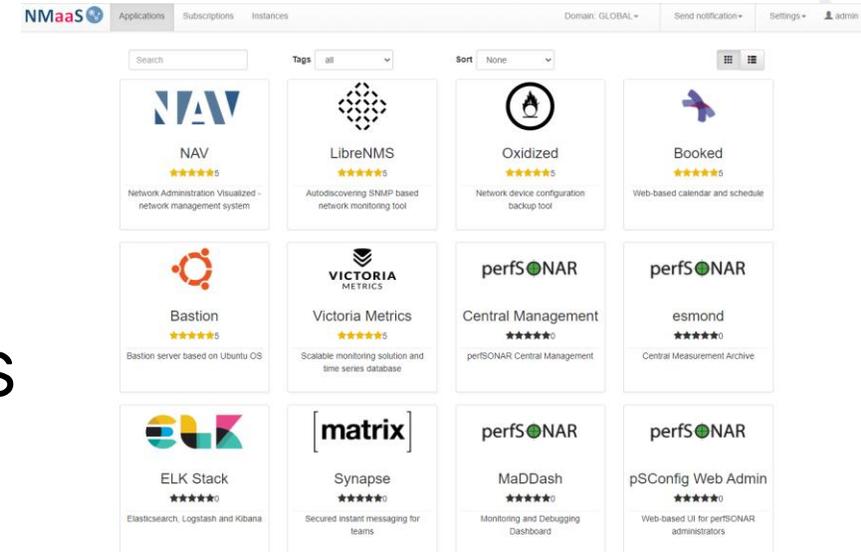


NMaaS in a nutshell

- 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

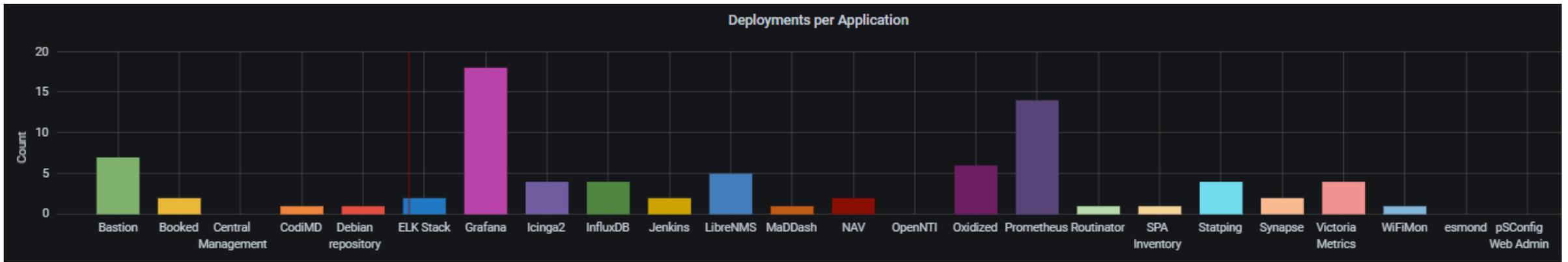
How you can use NMaaS service?

- To try NMaaS out or test offered applications
 - use NMaaS sandbox instance: <https://nmaas.geant.org>
 - (no configuration overhead, demo applications deployed)
- To set up your own NMS on the central GÉANT NMaaS
 - use NMaaS production instance: <https://nmaas.eu>
 - (secure, fully supported)
- To run your own instance of NMaaS
 - visit NMaaS Installation Guide: <https://wiki.geant.org/display/NMAAS/NMaaS+Installation+Guide>



NMaaS Portal

NMaaS service details



- **Offered free of charge**
- Service operated by a dedicated team within the GÉANT Project GN4-3
- Current funding assured till end of 2022 (with possible extension for the duration of upcoming GÉANT Project 5)

NMaaS tools portfolio

24 applications available in the marketplace

Oxidized

NAV

Prometheus

Grafana

Booked

Bastion

Debian

repository

SPA Inventory



perfSONAR

Central Management

WiFiMon

InfluxDB

ELK Stack

Jenkins

Routinator

Icinga

Victoria Metrics

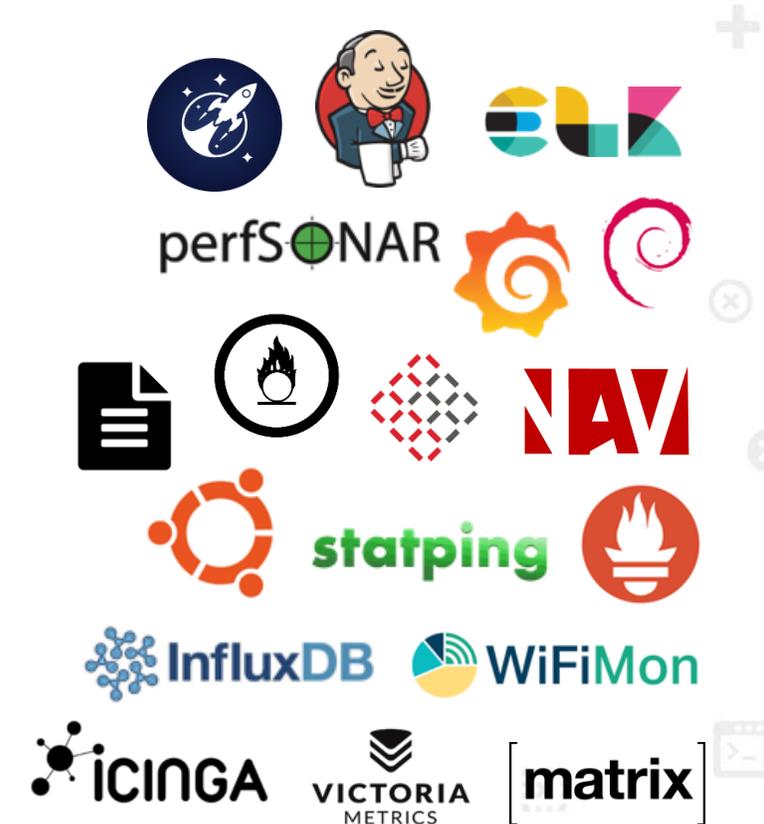
Synapse

Statping

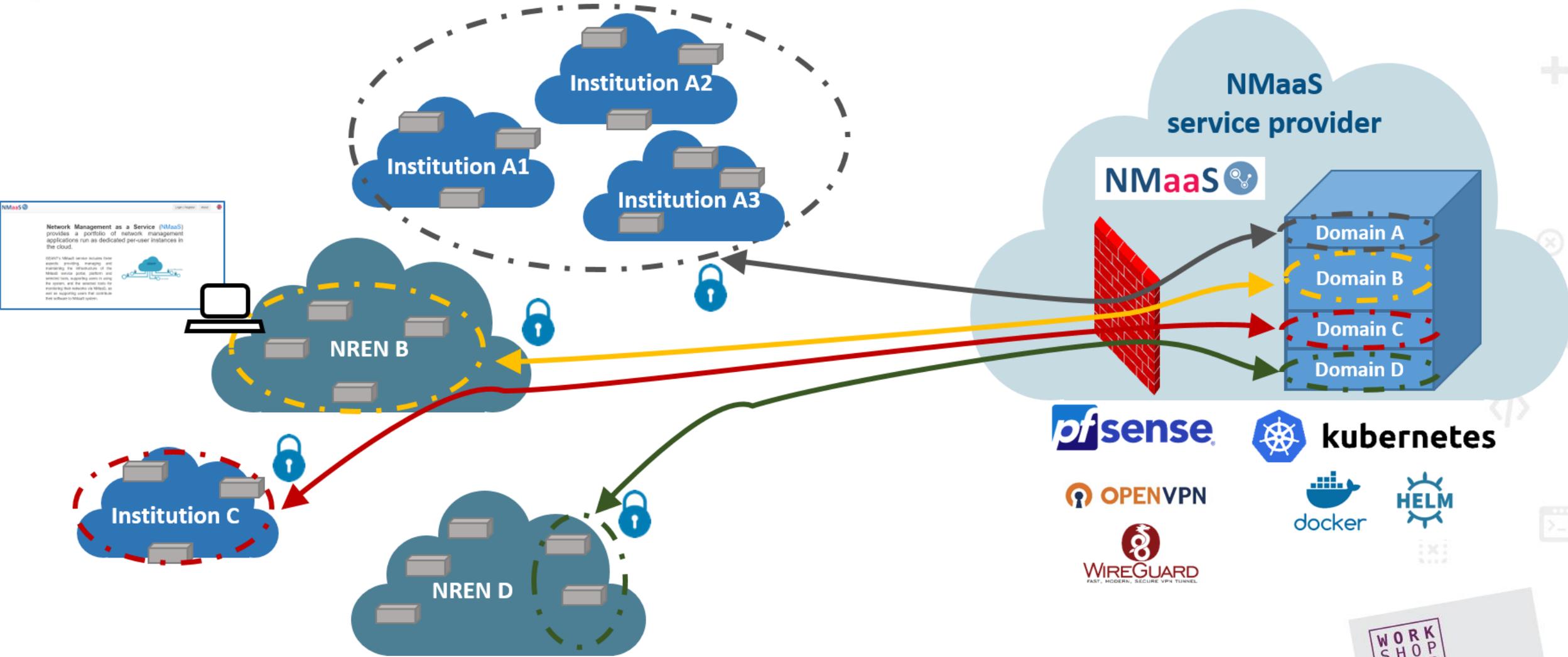
LibreNMS

CodiMD

WebDAV Server



NMaaS deployment



NMaaS tool deployment process

Login Register

Username
Username

Password
Password

Login

Federated login

[Forgot password](#)



Deploy new instance of Icinga2

Instance name
icing-demo

Select version
2.11.4

Domain: Customer 1

Close Deploy

Installation progress

- 1 Subscription validation
- 2 Environment creation

Configuration

Detailed field descriptions are available at [NMaaS Tools Page](#).

Base

Default web admin user *
llopat@nmaas.eu

Default web admin password *
.....

Allocated configuration directory storage (GB) *
1Gi

Allocated SQL database storage (GB) *
16Gi

Apply configuration

View application access methods Update configuration

Add members Undeploy

- 5 App container deployment
- 6 App running



Current activities and next steps

- Implementation of **NMaaS v1.5.0**
- Publishing NMaaS software as **open source**
- Building a **community** around NMaaS tools
 - Share experience and best practices
 - Keep application version update to date

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 or offered tools

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

NMaaS public wiki space: <https://wiki.geant.org/display/NMAAS>

NMaaS production instance: <https://nmaas.eu>

NMaaS sandbox instance: <https://nmaas.geant.org>