Verification and the Testbed

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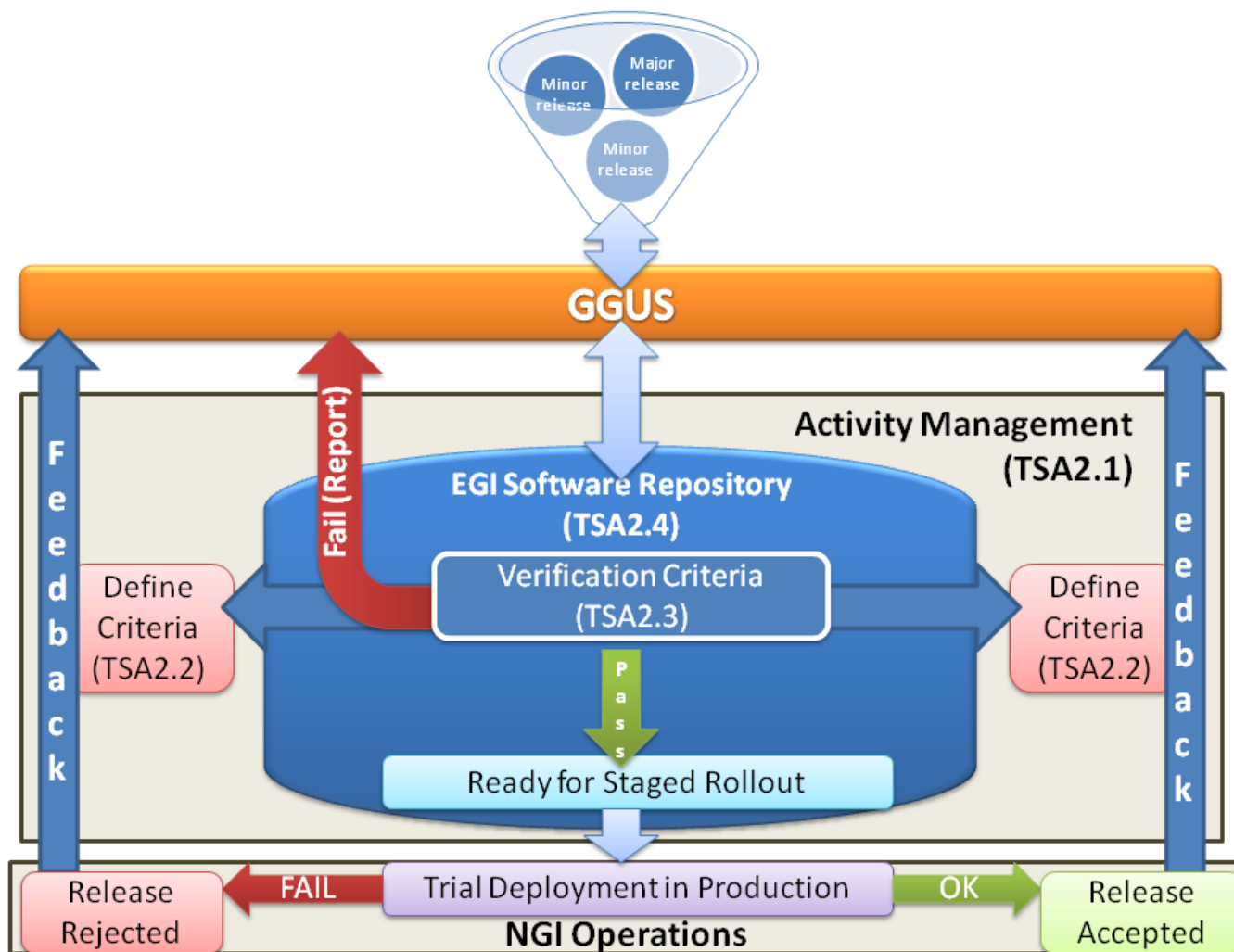
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CESGA

- QC Verification Process

- Verification Testbed

- Future Work
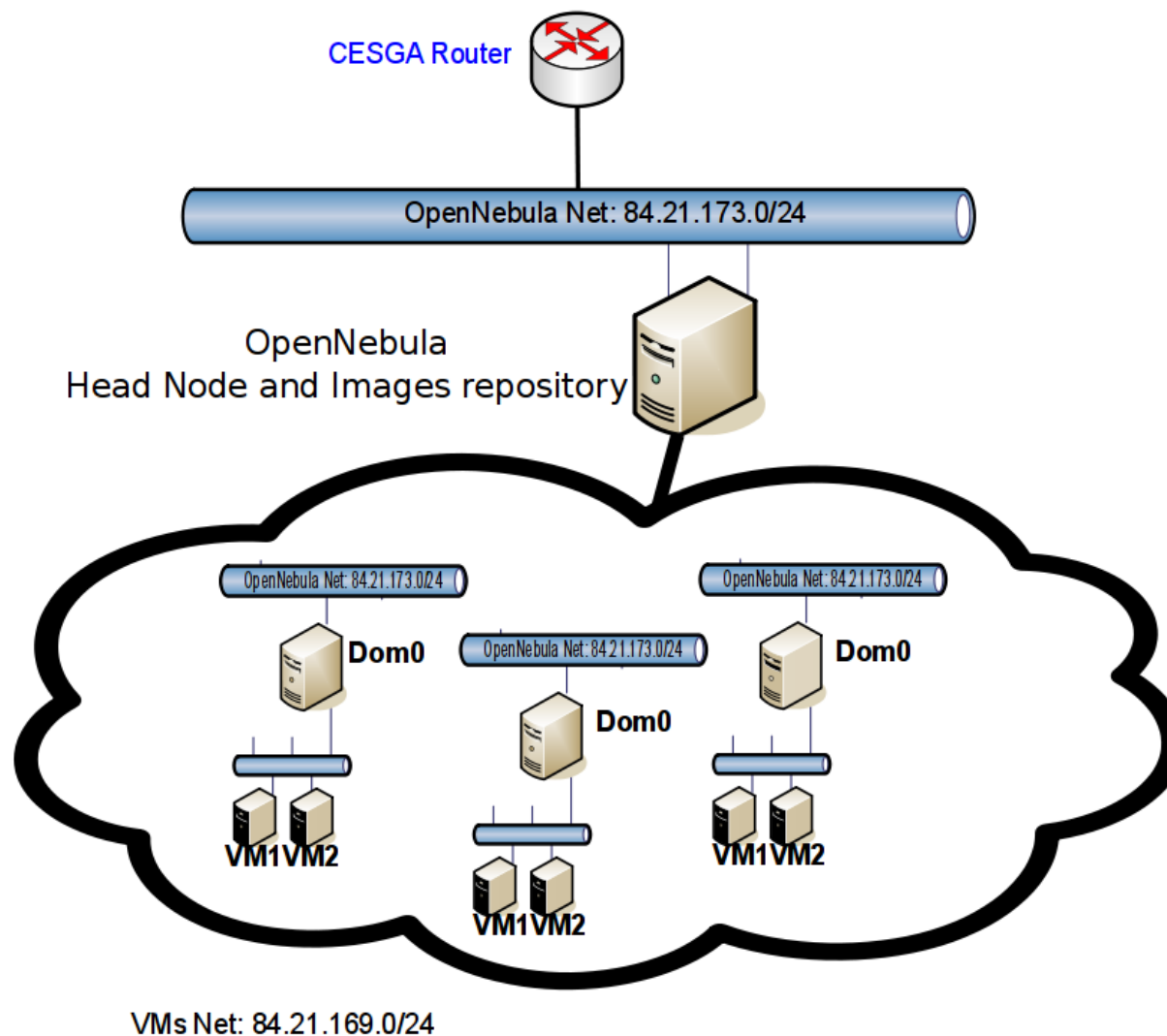
QC Verification Process

QC Verification Process

- The main objective of the Verification Process is to asses the EGI Quality Criteria of the software provided by the Technology Providers (TPs) before entering production.

- Some of the reasons for doing the verification before Stage Rollout (SR):

  - Check that bugs reported in previous releases have been fixed by the Technology Provider (TP).

  - Software might not be safe, well documented or have the necessary installation rules or licenses.

- Verifiers always publish a complete report after each verification: The verifiers guideline
  https://wiki.egi.eu/wiki/EGI_Verifier_Guideline

QC Verification Process

- **Important Tools and Documents:**

  - RT ticket system. We have a ticket for each product. https://rt.egi.eu

  - QC product mapping: Each product has assigned a list of QC to satisfy. This document is maintained by TSA2.2 and TSA2.3 members. https://documents.egi.eu/document/418

  - QC product mapping is used to generate the QC Verification templates per product . https://documents.egi.eu/document/417

  - An executive summary per verification is also included.

  - We have two kinds of Quality Criteria, Mandatory or Optional:

    - A product is **REJECTED** if it fails the installation or configuration process.

    - A product is **REJECTED** if it fails **ANY** Mandatory QC.

    - A product is **ACCEPTED** if it pass **ALL** assigned QCs.

    - A Product is **ACCEPTED** if it fails **ANY** Optional QC.

  - If a product does not met a mandatory Documentation QC, the product is not rejected but the fails is registered for SA2 metrics. "Failed against mandatory documentation QC" RT field.

QC Verification Process

- EGI Verifiers are middleware experts from different institutes (New verifiers are always welcome :-))

- Current EGI partners involved in middleware verification:

  - CESGA, IFCA, IFIC, INFN, JÜLICH and LIP.

- For UMD1.x were verified over 40 products (from EMI and IGE TPs).

- And 5 product releases were rejected because they did not met the Quality Criteria.

- The verification testbed is running over an OpenNebula 2.3 framework and is supporter by Nuba project.

- EGI Verification testbed offers a dynamic on-demand infrastructure where the verifiers can install and check the upcoming middleware releases from TPs.

- It can provide new open source solutions and services for EGI grid infrastructure.

- Testbed features:

  - Completely independent of the EGI production infrastructure.

  - Services can be installed or removed on demand.

  - All the services have public IPs.

CESGA Router

OpenNebula Net: 84.21.173.0/24

OpenNebula
Head Node and Images repository

OpenNebula Net: 84.21.173.0/24

Dom0

OpenNebula Net: 84.21.173.0/24

OpenNebula Net: 84.21.173.0/24

Dom0

Dom0

VM1 VM2

VM1 VM2

VM1 VM2

VMs Net: 84.21.169.0/24

- We will include and verify new products but we have to find more verifiers for some TP products:
  - FTS
  - LFC and VOMS Oracle flavors.
  - Hydra
  - SAGA-SD
  - GridWay
- A new frontend based on Sunstone will be available to create or destroy new VMs directly by the verifiers using their SSO accounts.