Anuket Assured
Release 2021.10 Test Coverage

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Anuket Assured | Program Development & Structure

LFN Governing Board

Tasked with program development & governance

Compliance & Verification Committee (CVC)

Recommendations on testing
Cross Project Collaboration

Governance Documentation
Program Release Oversight
Review Process

Projects

Technical Requirements & Test Implementations

Anuket Assured Program(s)
Anuket Assured | Program Overview & Philosophy

› Anuket Assured evolved out of OVP to tackle Cloud Native and newer technologies
  › Which grew out of the OPNFV badging program
› Open program, well aligned with open source best practices
  › Support self-testing and 3rd party lab testing
› Reliance on a community review processes
  › Requirements, Test Implementation, Results, and Badge Granting
› Aiming for a uniform approach across projects in LFN
  › Single release schedule for badges / updates
  › Consistent definition of test types and badges
  › Common governance processes and definitions
  › Recognizable badges and marketing across projects
Anuket Assured | Current Status

› Anuket Assured 2021.10 was released in Q4 2021
  › [https://www.lfnetworking.org/verification/](https://www.lfnetworking.org/verification/)
  › Program documentation:
  › Coverage:
    › Infrastructure: Anuket RC1 (VM based) and RC2 (Cloud Native)
    › VM Workload: ONAP VNFRq & VNFSDK
    › CNF Workload: <missing from from 2021.10 badge>
2021.10 Test Coverage | RC1 NFVI Infrastructure

Interfaces & APIs
- Via Functest running Tempest and Rally

Dashboard
- Via tempest-horizon

API Benchmarking
- Functest running Rally test cases with 10 iterations

Dataplane Benchmarking
- Via VMTP, Shaker, and PROX

VNF Onboarding
- Functest runs onboarding Clearwater IMS, VyOS vRouter, and OpenAirInterface vEPC VNFs using Cloudify, Heat, or Juju
2021.10 Test Coverage | RC2 Cloud Native Infrastructure

Kubernetes API
- Coverage from Kubernetes End-to-End Testing, based on selection tags:

Kubernetes API Benchmarking
- Based on Funktest’s xrally_kubernetes, which iterates 10 times over the mainline test scenarios.

Dataplane Benchmarking
- No KPI’s currently defined by Anuket

Security Testing
- Tests provided by kube-hunter and kube-bench, integrated into Funktest.
- Tests are not currently mandatory, requirements are referenced as “should” in RA2.

CNF Onboarding
- Tests onboarding and liveliness of Clearwater IMS via kubectl and helm
VNF Package Tests Cases
- ONAP package validation against VNF/PNF requirements list

VNF Onboard and Instantiate Test Cases
- HEAT or TOSCA based cases, run from ONAP VVP or VNFSDK
- Automated validation of VNF creation, liveness, and destruction
2021.10 Test Coverage | CNF Workload

Not yet defined or released…
Anuket Assured | 2022 Release Planning

Aiming for H1 of 2022 for the next release

› Need to expand coverage to include CNF Workloads
› Include more testing for VM workloads (per Anuket requirements)
› “Pick up” next set of requirements from upcoming Anuket and ONAP releases
› Continued updates and improvements to the process, workflows, and tools (results storage, reviews, listings, etc)
2021.10 Test Coverage | References