Moon Project

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Introduction

- Proposed name for the project: Moon Security Management Module
- Proposed name for the repository: moon
- Project Categories: Security, authorization processes
- Requirements where Moon could help:
  - req.sec.gen.01: must provide tenant isolation.
  - req.sec.gen.02: must support policy based RBAC.
  - req.sec.gen.03: must support a centralised authentication and authorisation mechanism. (only authorization)
Introduction

- Project started in 2015 / archived in June 2019
- Project was still updated in an internal Orange gitlab:
  - More than 1k internal commits since 2018
- Up to 5 internal committers in 2019
- Most active committer list:
  - Thomas Duval (PTL)
  - Dimitri Darthenay
  - Christophe Le Toquin
Description

- Authorization & Security policy Management Platform
- Protect every tenant with a security layer
- Layers are dynamically created by users
Project mechanisms

- Enforce the authorization mechanisms
  - Users create his/her own security policy
  - Users apply the selected policy to a tenant
  - Users update the policy as needed
  - Every OpenStack action can be authorize
    - Keystone, nova, neutron, ...
Project mechanisms

Next steps:
- Update of the HTML UI to be more user friendly
- Add a connector for Kubernetes
- Add global authorization tests (Patrol/Tempest)
Relation with other projects

- Moon uses the Oslo Policy library to catch information from OpenStack.
- Moon can
  - totally replace the authorization system of an OpenStack platform
  - can also work in parallel with the authorization system of OpenStack.
We have developed a test suite for continuous integration. They cover:
- unit testing,
- functional testing and
- security testing.
Conclusion

- Moon is in a production state
- We need to reopen the git repository
  - To give Moon to the community
  - Some people are interested
  - I will present the platform to a French Security conference
Thanks

Questions ?