

VISA Infrastructure Migration

27th September 2024



Summary

- Current state
- New infrastructure
- Migration procedure



Current State

2019's infrastructure





Stein (2019)







Main constraints:

- Ansible openstack with local services
- -> Complex maintenance / upgrade
- Single datacenter setup with local storage
- -> Limited High Availability
- -> Limited Scalability



New Infrastructure

2024's infrastructure



Caracal (2024)





debian

Main changes:

Complex maintenance / upgrade

-> Kolla ansible with dockerized services

Limited High Availability

- -> Two datacenters setup with three controller nodes
- -> Distributed Ceph storage



Migration procedure

How to migrate to the 2024 infrastructure

Key facts

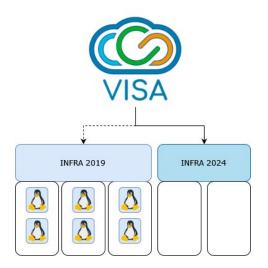
- VISA instances are temporary
 - -> intended to die
- Current compute demand is low
 - -> Two infrastructure could operate in parallel



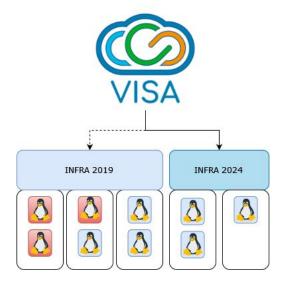
Migration procedure

How to migrate to the 2024 infrastructure

1 - Connect new infrastructure as default backend in VISA



2 - Let instances die on the old infrastructure

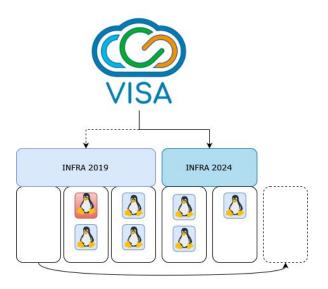




Migration procedure

How to migrate to the 2024 infrastructure

3 - When a node is empty, move it to the new infrastructure



4 - Until migration is done





Thanks!



