

State of the art



 When a VNF has day-1 operations in the descriptor new charms are created to perform these operations. After the operations are completed, the charms are still deployed, but they won't be executed anymore.

Current flow:

- For each VNF (and each VDU/KDU belonging to it) register a task to create an execution environment
- Execute the tasks
 - Create a new execution environment
 - Deploy the application
 - Execute initial configuration primitive (day-1 operation)

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The proposed solution



- At instantiation keep track of entities (NS, VNFs, VDUs, KDUs) requiring only day-1 configuration
- Wait for instantiation
- Remove all execution environments (applications) associated to the previously tracked entities
- Delete information regarding the removed execution environments from the database

Changes in LCM



- For each VNF (and VDU/KDU belonging to it) and NS:
 - If only day-1 operations are present -> store identifier on the entity (NS/VNF/VDU/KDU specific)
- Wait for instantiation tasks (model creation, application deployment, day-1 operation execution)
- For each previously saved identifier
 - Retrieve application names from VCAs
 - Register tasks to remove the selected execution environments
- Wait for removal tasks
- Delete from the database the information associated with the removed execution environments

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Changes in N2VC



- Modify async def delete_execution_environment(...):
 - add optional "application_to_delete" argument:
 - connect to Juju controller
 - remove the application
 - wait for application removal
 - if model is empty -> destroy the model
 - disconnect from Juju controller

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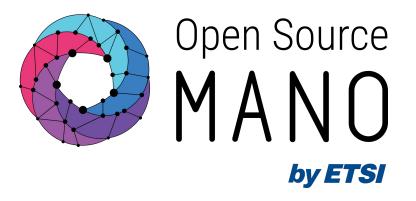
Demo



- Network Service with 2 VNFs
- VNF 1:
 - only day-1 operation
- VNF 2:
 - day-1 operations
 - day-2 operations

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Thank You!