Policy Architecture and Framework for NFV Infrastructures

draft-irtf-nfvrg-nfv-policy-arch-03

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IETF 94 Recap

- Updated Section 8.1 "Establishment of a Multipoint Ethernet Service"
  - Added that the OSS/BSS would translate the requested service to an appropriate policy using the *name space* defined between the OSS/BSS and NFVO
  - Added a Local NFVO to each vPoP in the example

- Added Section 7.1 "Pub/Sub Bus Name Space"
  - *Name Space* discussion was part of Section 8.1 above
  - Moved it to a separate subsection (7.1)

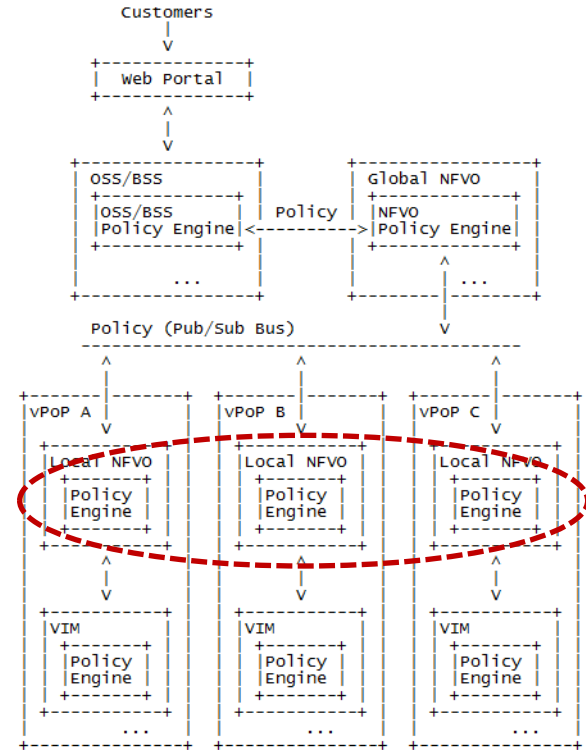- New Co-Author
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Figure 6: Simplified view of a service provider's NFV Architecture: Multipoint Ethernet Service Example

New with Current Draft

- Merged the "Policy-based NFV placement and scheduling" example provided in reference [1] below into Section 8.2

  - The example describes global NFV placement policies applicable to compute to promote energy conservation for a NFVIaaS use case in an OpenStack framework

  - Policies are written based on performance parameters provided by a "Measurement Collector", which periodically retrieves instantaneous per-server CPU utilization and other parameters

Ref. [1] - draft-krishnan-nfvrg-policy-based-rm-nfviaas

```
+-------------------------------------+
|            Policy Engine            |
|   Performs resource placement       |
|   and scheduling function (proactive|
|   and dynamic policy enforcement)   |
+-------------------+-----------------+
                    |
                    |
+---------------+---+-------------+
|   Measurement Collector         |
|   VM DB - CPU                    |
|   Utilization, Network          |
|   Utilization/Latency etc.      |
+---------------+-----------------+
```
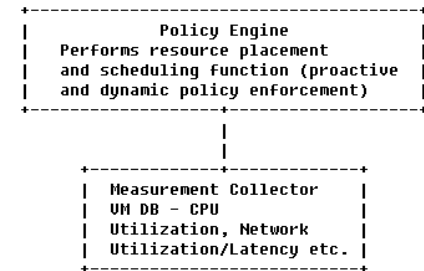
Figure 7: NFVIaaS Architecture for Policy Based Resource
Placement and Scheduling

Next Steps

- Draft content to be merged into "Policy-Based Resource Management"
  - draft-irtf-nfvrg-policy-based-resource-management-00