IETF 95

Introducing Policy-based Platform-aware Scheduling

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Introducing Policy-based Platform-aware Scheduling

• One of the key goals of NFVRG
  • Direct impact on open source projects OpenStack, OpenDaylight, OPNFV etc.

• Working with the NFVRG team and OpenStack community for last 4 months
  • Focus on the most popular topic – policy-based resource management
  • Output: Policy-driven, Platform-aware Nova Scheduler
  • Key Benefits:
    • Extensible framework for adding new constraints, e.g. HW acceleration for encryption
    • Improved usability for admins in terms of placement decision control, debug tools etc.
    • Single representation for monitoring and placement
  • Detailed Spec (under review): https://review.openstack.org/#/c/297898/3/specs/newton/approved/policy-scheduler.rst
    • Contributors: Dell, IBM Research, Intel, Orange, Styra
  • Upcoming detailed talk at the OpenStack Summit at Austin

• Orchestration Integration
  • YAML based template for easy integration with open source efforts such as OSM, Tacker, ECOMP, OPEN-O etc.