



ESnet is building a dedicated 100G SDN testbed

PetaTrans provides services for Petascale science data transfers.

SC16 demonstrations included 43 sets of 100G and SDN/SDI demonstrations including 2.2 Tbps networking to the StarLight booth and demonstrating 1 Tbps networking transfers.

Other SC16 demonstrations included:

- 85 Gbps over a 100G link (a record)
- Real-time performance monitoring on 100Gbps networks
- Bio-informatics Grid distributed performance
- International SDN/SDX networking (Korea, Singapore, Korea, Japan, Brazil)

Chameleon is an experimental tested for cloud research. It uses OpenStack Network API for network control.

Neutron provides APIs (via dashboard Web-based GUI) interfaces to devices (routers, switches, virtual routers, virtual switches, SDN controllers) and policy-based control software components.. It enables networks to be created and managed within IaaS platforms for L2 and L3.

For the complete briefing please see the MAGIC Website at:

[https://www.nitrd.gov/nitrdgroups/index.php?title=Middleware\\_And\\_Grid\\_Interagency\\_Coordination\\_\(MAGIC\)#title](https://www.nitrd.gov/nitrdgroups/index.php?title=Middleware_And_Grid_Interagency_Coordination_(MAGIC)#title) under February 2017 meetings.

### **NCO Report**

The NCO is organizing a new group on the National Broadband Research Agenda to address research needs and research coordination on Broadband wireless networking supporting access and services to communities and hard to reach constituencies (rural areas, Indian reservations, prison populations,...). It is likely to start in March 2017. If you would like to participate, please contact Grant Miller at: [miller@nitrd.gov](mailto:miller@nitrd.gov).

### **Meetings**

FuturePlatform workshop. The objective of the workshop is to prepare a roadmap charting out research challenges that need to be overcome to build a future platform for science.

The workshop will be held on April 4–5, 2017 at the Hyatt Regency Crystal City

### **Next MAGIC Meeting**

March 1, 12:00-2:00 Eastern, NSF, Room TBD

**Please note that the regular time for the MAGIC meetings has permanently been changed to 12:00-2:00 Eastern.**