



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

October 3-4 | Albuquerque, New Mexico

NSF Program (either CC or CICI): CC

Program Area: Data, Networking, & Innovation

Award Number: 1541469

PI: Jason Podrabsky

co-PIs: Todd Rosenstiel, Heejun Chang. William Garrick

Project Title: Research and Innovation Network for Portland State University



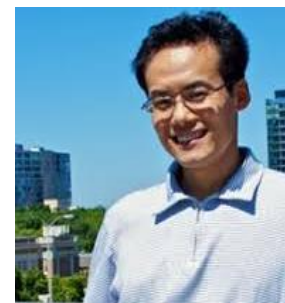
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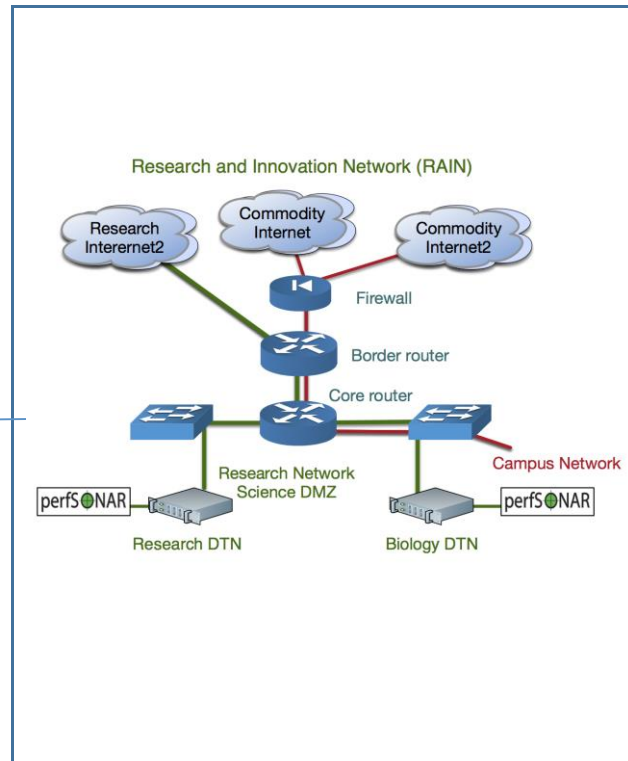
Quad Chart for: *Research and Innovation Network for Portland State University*

Challenge:

- Create 10Gbps Research And Innovation Network (RAIN) while upgrading existing infrastructure
- Provide high-bandwidth connectivity to Internet2
- Create Science DMZ to support high-bandwidth data workflows

Deliverables:

- Upgrade core switches and research building/lab distribution and access switches to 10Gbps, and provide 1Gbps to the desktop/lab space
- Add 10Gbps circuit to I2
- Implement network capable of utilizing SDN
- Implement Shibboleth and publish metadata for InCommon related services (eduroam, Edugain, Globus)



Broader Impact:

- Effectively support inter-institutional research collaboration
- Enhance STEM and other compute/data intensive academic research endeavors and programs
- Provide researchers and students access to high performance network, storage and computational systems

Metadata tag:

- <https://www.pdx.edu/oit/research-computing/networking>
- *Almost production ready*
- *Ready to collaborate*
- *Prepared for the next phase*