

OSPFv2 (Part 5)

Multi-area OSPF

Agenda

- In The News:
 - Apple CEO's comments were *the* hot-topic for last week:
<http://michaelanderson.ca/22F-NET2000-010/Wk05-WomenInTech.jpg>
 - Lab 5 bandwidth is too low?? For future proofing, should it be multi-Terabit?
<https://www.infinera.com/press-release/zayo-group-worlds-longest-800g-optical-wave-supported-by-infinera>
- **Midterm**: new date is **Wed Nov 2nd** during regular class time. Please block off extra time in the preceding hour in case we're able to start a little early.
- Approved course outline now posted; key items are: content, marks, dates.
- New material:
 - Continue Multi-area OSPFv2 - from slide deck posted last week

Assignments and Lab work

- Online (NetAcad) **chapter test** for OSPF modules: due by **11:59pm Tue Oct 4**
- Lab 4 post-lab due **before** your lab session this week
- Lab 5 pre-lab: due **before** your lab session this week
- Lab 5: Multi-area OSPFv2, this week
- Readings:
 - Slide decks on Multi-Area posted to course site; memorize them!
 - Free, online chapter from CCNAv6, and still valid for us:
<https://www.ciscopress.com/articles/article.asp?p=2738303>
 - includes a nice, brief section on "OSPFv2 Interface Configuration"

Multi-area OSPF

- Configuring multi-area OSPF isn't actually harder than single-area OSPF; understanding the theory is a little more work; understanding the details of the LSDB may be your biggest challenge.
- Details of LSA's: #1-3 in NET2000, #4,5,7 in NET3008; #9-10-11 in NET3012

Synopsis of OSPF

- Setting up static routes for a *small* network is about equivalent to OSPF: e.g. no typos with all the route addresses vs multiple (but repeated) config lines
- OSPF (like all routing protocols) adapts & recovers quickly; static routing requires manual intervention or else no changes/fixes happen.
- OSPF is *zero maintenance* once up & running correctly; static routing is horrendous to maintain and doesn't scale at all.
- OSPF (like all routing protocols) is dynamic and continually updates the routing tables of all participating routers.