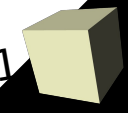
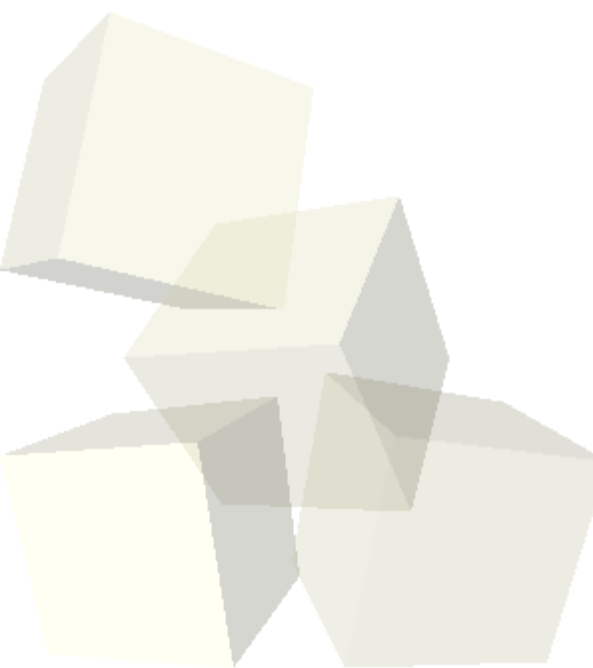




Status of Broadband in E. Africa: Achievements, Challenges and Prospects

Douglas Onyango

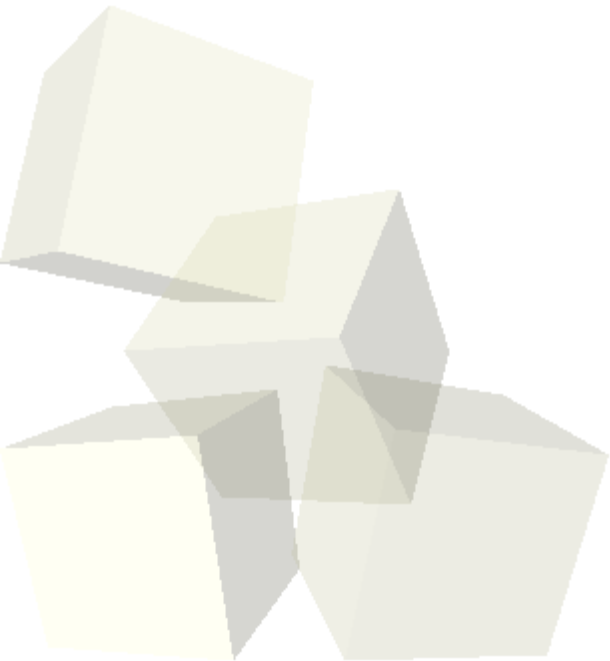


Analysis from World Bank revealed that each 10 percentage points of broadband penetration results in 1.21% increase in per capita GDP growth in developed countries, and 1.38% in developing countries



Achievements

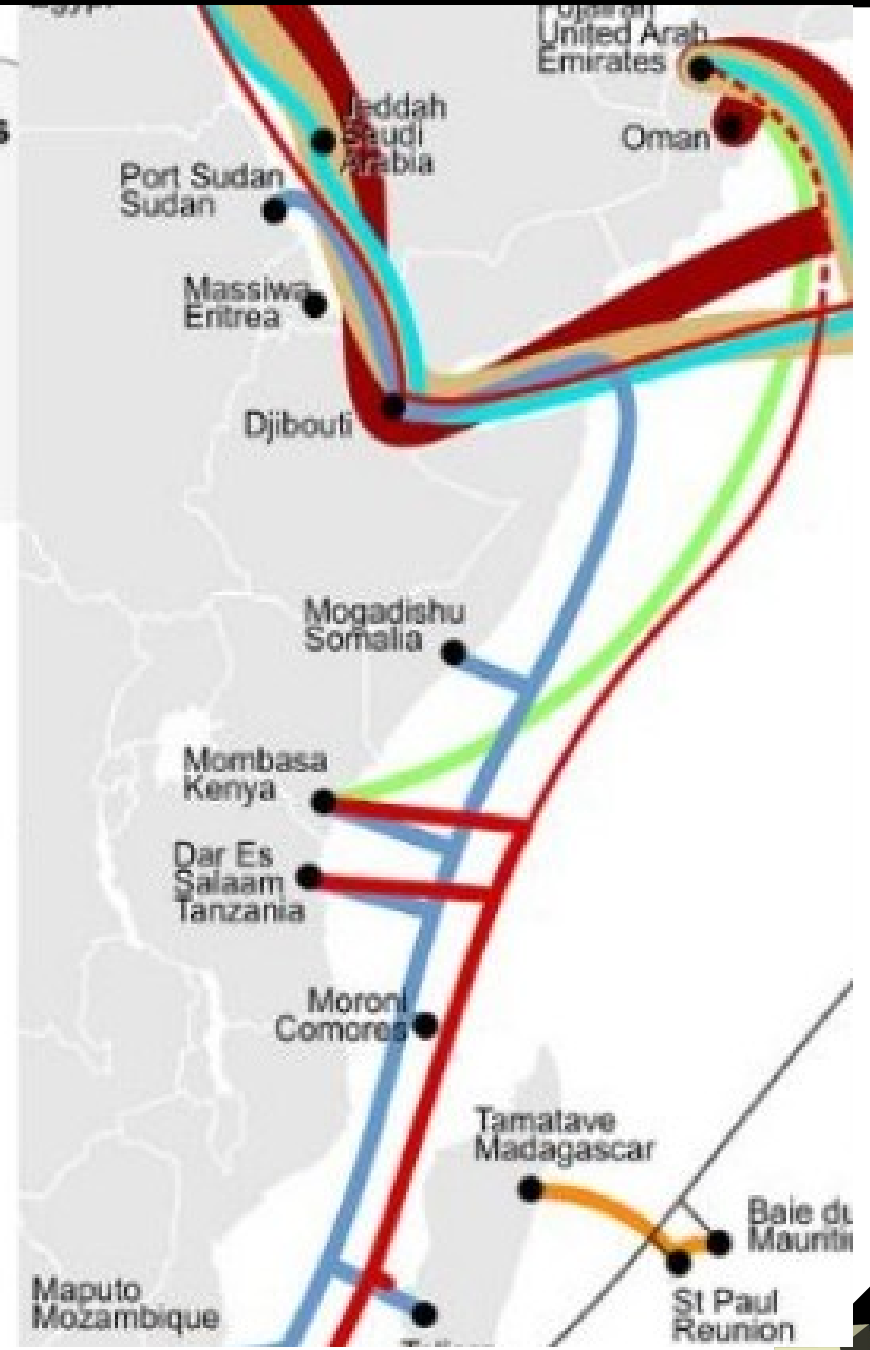
?



Fibre Optic cables

Sub-Saharan Undersea Cables

TEAMS	1280 gigabits	Active
Seacom	1280 gigabits	Active
EASSy	1400 gigabits	Q3 2010



Three fibre optic
Cables operational



Reduced Internet prices

Fibre Optics Competition

Have forced Internet prices to considerably reduce.

Seacom now links UTL customers to Southern and Eastern Africa, Europe and South Asia. With their launch onto the Seacom fibre optic cable, UTL has increased customer bandwidth at the existing price. Customers who had 64kbps at US\$ 90 now have 128kbps at the same price.

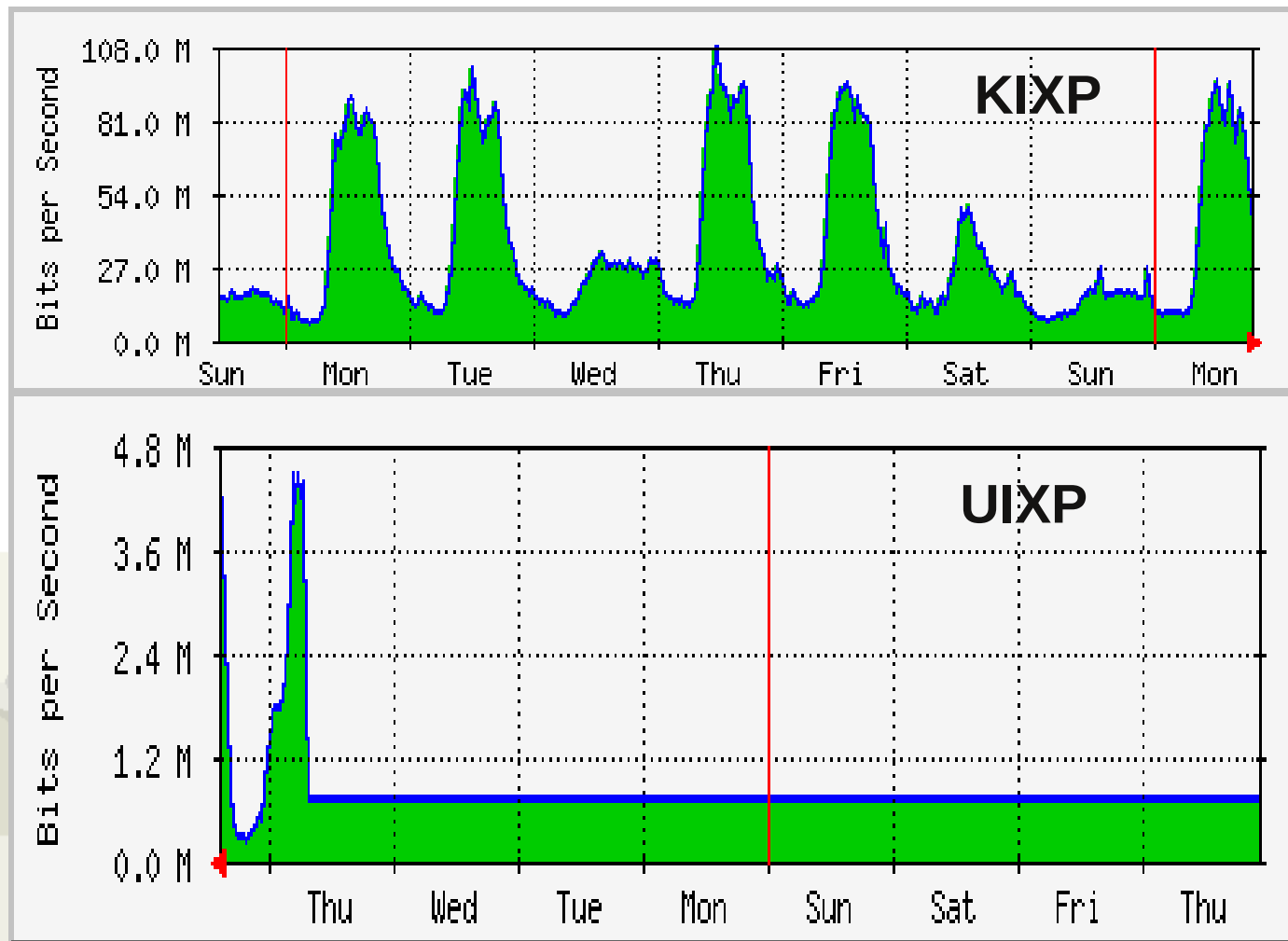




Operational Exchange Points

At National level, IXP's are running and transporting traffic on the local loop.

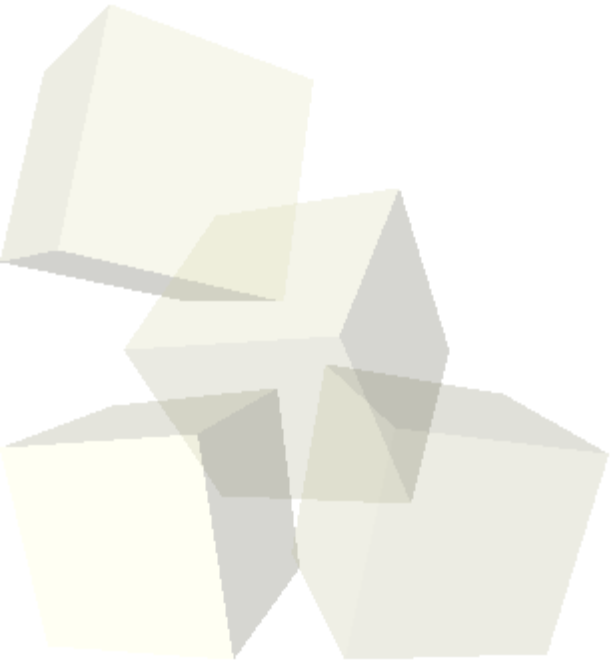
Weekly Graph (30 Minute Average)





Challenges

?





Expansion of infrastructure is still limited to the capitals, where the operators are guaranteed a steady market:- tourists, entrepreneurs and other interested parties





Peering at regional levels

Internet traffic from some countries in the region still traverses the globe only to come back to E. Africa.

And someone pays for this which could have been cheap/free if the power of IX had been harnessed.

```
ss@etechadmin2-laptop:~$ sudo traceroute wavu.kixp.or.ke
traceroute to wavu.kixp.or.ke (80.240.194.142), 64 hops max, 288 bytes
 1 pfsense.kampala.etch.local (192.168.60.241) 0 ms 0 ms 0 ms
 2 41.210.165.157 (41.210.165.157) 302 ms 258 ms 288 ms
 3 172.17.4.158 (172.17.4.158) 291 ms 65 ms 39 ms
 4 h6e1.n2.ips.mtn.co.ug (212.88.102.225) 51 ms 325 ms 335 ms
 5 212.88.97.45 (212.88.97.45) 297 ms 302 ms 271 ms
 6 h3e80.n1.ips.mtn.co.ug (41.210.190.128) [MPLS: Label 164468 Exp 0] 1320 ms 1384 ms 1366 ms
 7 41.210.190.141 (41.210.190.141) 1489 ms 1581 ms 1555 ms
 8 ethic-41-222-1-29.metronet.imul.com (41.222.1.29) 1870 ms 1915 ms 1996 ms
 9 kenya.com (196.216.75.254) 2593 ms 2608 ms *
10 com (217.21.112.6) 2427 ms 1726 ms
11 21.112.10) 1713 ms 1876 ms
12 2455 ms 2479 ms
```

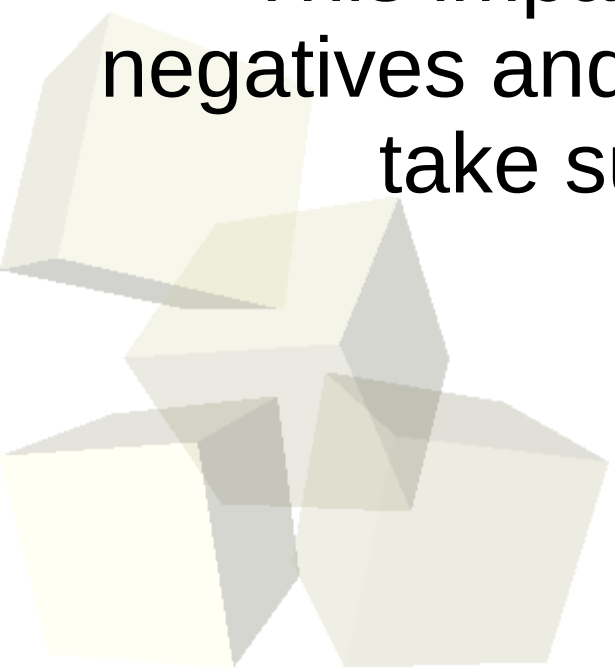




Little support from Gov'ts

Because most of the fibre optic cables are privately owned, their first objective is to make money and put a smile on shareholders faces.

This impacts proliferation of the technology negatives and the government is not being seen to take sufficient action to reverse this.





SEACOM service down: SEACOM actively seeking solutions

Submitted by Team Seacom on Mon, 2010/07/05 - 20:01

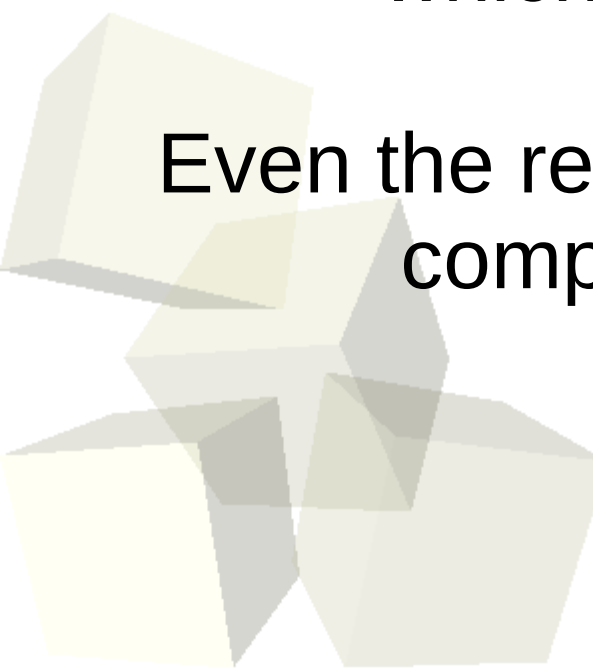
At 09:19 GMT, 5 July 2010, SEACOM experienced a submarine failure resulting in service downtime between Mumbai and Mombasa. Current investigations indicate that a repeater has failed on segment 9 of the SEACOM cable, which is offshore to the north of Mombasa. This unexpected failure affects traffic towards both India and Europe. Traffic within Africa is not affected (i.e. - traffic to African websites, such as .co.za).





All 5 E.A countries are in the World's poorest countries (World bank, IMF – highest GDP - 1,800), our priorities are mostly on basic necessities of which the Internet is not at moment.

Even the recent price cuts are not good enough compare to our income, economy





The Independent Website Hacked Again

Posted by: on Sep 22, 2009

Tagged in: *Untagged*



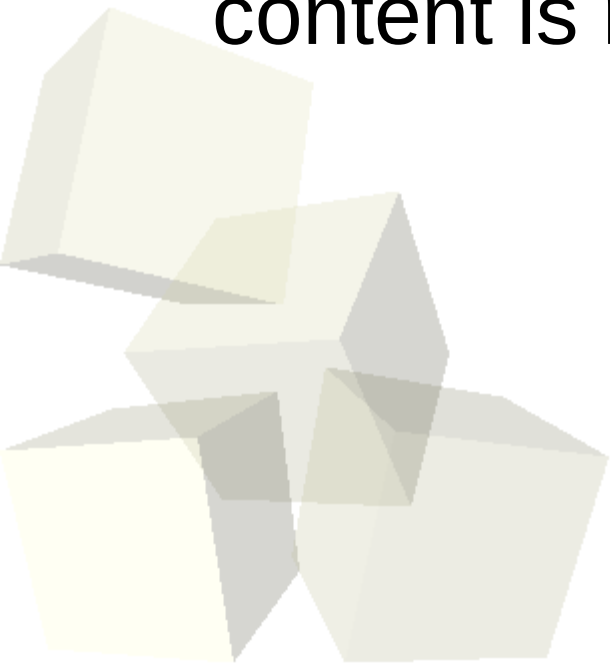
As many of you may have noticed, our website was hacked into over the weekend by unknown persons. They accessed our servers and deleted Independent and Uganda Talks stories and guest blogs filed from September 10th and on. The individuals seemed to directly target our coverage of the riots.

Several posts were left by the hackers that, generally, blamed us for being anti-government in our reporting (even though we have been cited by many as having the most even-handed and complete coverage of what was going on—both in the print edition and on our blog). Although we were able to recover much of what was deleted, we permanently lost the posts on Uganda Talks from last week.



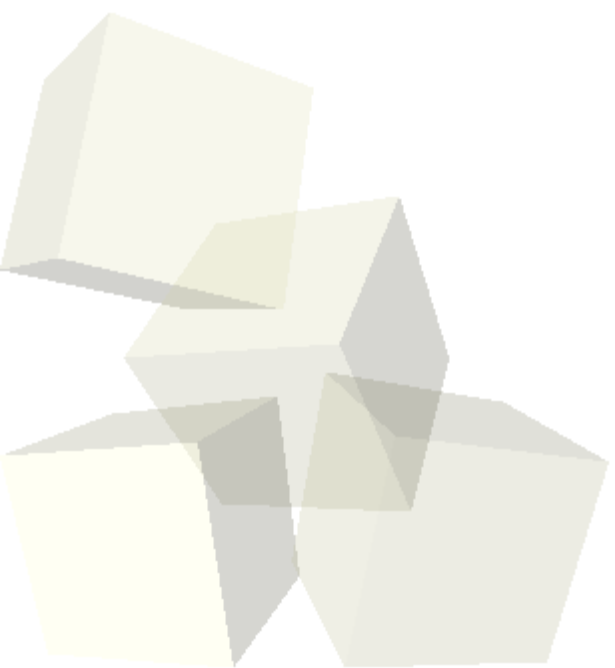


Available content either not in the right language or content is not best suited for the local needs.





?

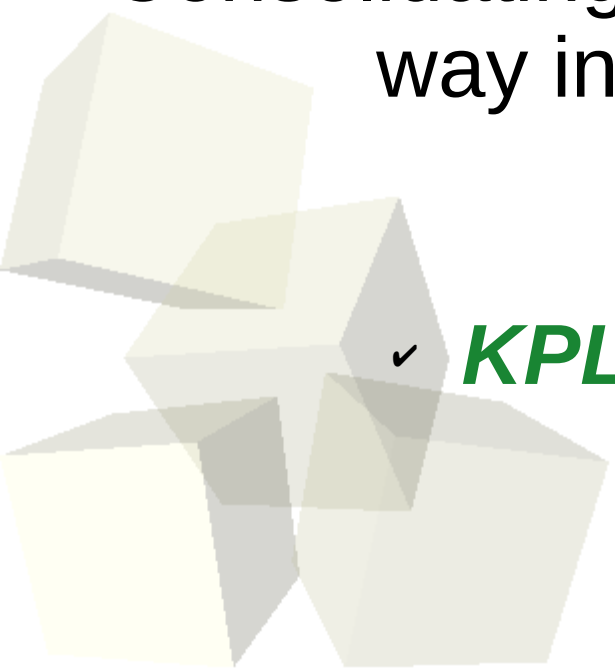




With the region poised for BPO's and other ICT intensive businesses, we cannot afford to have disruption on major communications infrastructure.

Consolidating available infrastructure will go along way in ensuring business continuity.

✓ ***KPLC & UETCL, E.A Back haul***

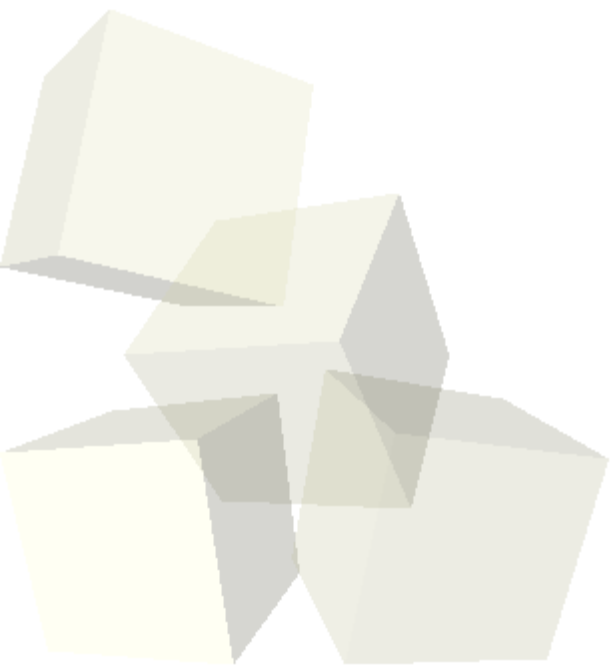




Setting up of CERT/CSIRT

With the number of sites attacked each day in the region, we can't afford to look the other way.

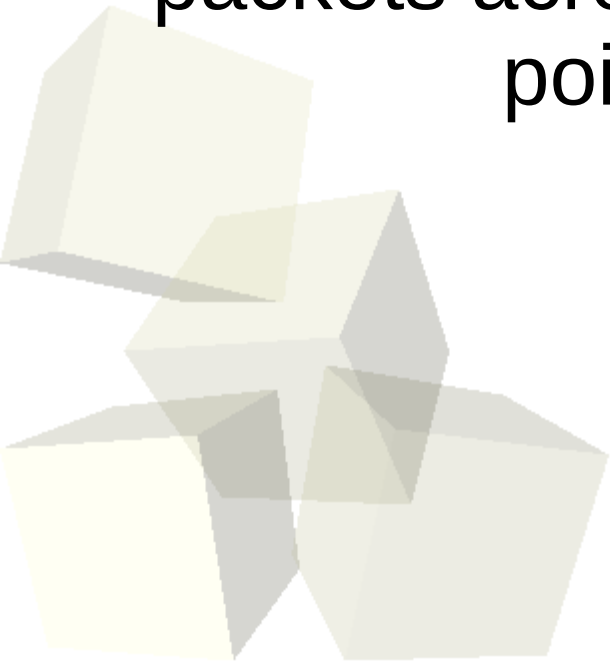
Considering that most of the hacks leverage old/known vulnerabilities, Co-ordination in handling and resolution will go along way to mitigate this.





Regional Exchange Points

To bring down both the time and cost of sending packets across the boarder, Regional exchange points need to be established





We need to continue developing content.
We also have to ensure that the content is relevant
to the target population.

This is the only way we shall win them over.





Thank you!

+256712981329

ondouglas@digiclear.net

ondouglas@yahoo.com

