

20130130 SLAC SEECS and UNIMAS Meeting

Attendees

Anjum+, Kashif+, Johari*, Abdullah*, Badrul, Hanan, Saqib+, Les+, Raja*, Umar and Bebo* were invited.

* Unable to attend.

+ Confirmed can attend

This meeting was postponed.

General

Johari is setting up a web landing site for the Malaysian collaboration. The start is at <http://pinger.unimas.my/pinger>

- brief history, description of the project and the objectives
- link to main SLAC page and also NUST
- list of names, contact details (email, etc), their affiliation, and they scope of job in the project
- a link to the data collected from UNIMAS and also other hosts in UM, USM, and UTM when they have their monitoring host running
- link to meeting minutes in Confluence
- We should also have an archived email list.

Workshops

Johari is putting together a web site for the workshop at UNIMAS. **Progress.**

Johari recommended a future PingEr workshop later this year. This time it would be in Peninsular Malaysia hosted at either UTM or UM. **This should be a topic for the next meeting, i.e. who should host it, dates etc.**

Funding

Johari has submitted a proposal for FRGS (Fundamental Research Grant Scheme). There are 5 members of the proposal (5 is the max). Johari decided to get 2 more people from the group in UNIMAS to join the PingER project, thus we are unable to include our counterparts in UM and UTM (Dr Abdullah and Prof Hanan). We can go for a bigger project such as the eScience or LRGS (Long-term Research Grant Scheme) which can accommodate a larger number of people, more funding and encourage cross institutions collaboration.

At a later stage the infrastructure and data can be used for research in: anomaly detection; correlation of performance across multiple routes; and for GeoLocation. Johari would like to see UM and UTM, which are research universities, strongly engaged in the next round of research proposals. Anjum mentioned a paper on [Evaluation of IP Geolocation Algorithms on PingER and PlanetLab Infrastructures](#), by Fida Gilani et. al. submitted to IEEE INFOCOM 2011 UNIMAS. This could be updated with new data and maybe submitted to a different venue. Anjum forwarded a copy of the paper to Johari, Abdullah and Hanan with copies to the team. The idea is to see whether there is interest at UTM, UM or UNIMAS.

UNIMAS

There is a problem with the UNIMAS traceroute. It appears pinger.unimas.my is behind a NAT that is not passing the traceroute UDP probes. Other hosts at UNIMAS are not seeing the problem, so Johari believes it may have to do with the IPTABLES in pinger.unimas.my. Traceroute using the -I option (send the probes using ICMP rather than UDP) seems to work (but needs root access). Thus it would appear not to be in the return (ICMP "time exceeded") response. The probes (when not using the -I option) are UDP packets using sequentially ports 33434 - 33465 (for up to 30 hops). It is possible that ports > some number may be blocked.

Johari has set up a guest account for Anjum who will logon and look around and see if he can assist. The traceroute/ping server is important for the TULIP trilateration project.

UTM

Anjum visited University of Technology Malaysia (UTM) on the way back from UNIMAS to Pakistan. He met with Dr. Hanan. During Anjum's last visit to UTM he had asked Dr. Hanan to deploy PingER monitoring node at UTM. Dr Hanan has now appointed Saqib (PhD student at UTM) to complete the deployment. Dr. Hanan sent a request two to three days ago to the UTM network team for a live IP address. He does not expect a problem. Dr. Hanan has also agreed to explore the possibility of having a PhD student work on the data auto-correlation part for link error detections once the monitoring node is set up. Meanwhile Saqib has successfully installed the traceroute.pl and pinger2.pl software on a private IP address host at UTM. It now has a live IP address try:

http://161.139.146.158/cgi-bin/ping_data.pl
<http://161.139.146.158/cgi-bin/traceroute.pl>

UM

Dr Nor Badrul Anuar Jumaat is planning to install PingER on a cloud at UM. The machines are virtualized and will be running Ubuntu Linux.

USM

Les met with Navaneethan Arjuman of USM at the TIP meeting in Hawaii. He seems interested in the research side of things. He is a researcher not an operations person and has been involved in network monitoring for 4 years. He talked of a tool they have developed called INFMON, if I heard right. He also is interested in a research proposal. He also strongly recommends we engage with MYREN. Les tried pinging www.usm.my but pings are blocked. He can ping nav6.usm.my. This host has been added to the hosts monitored from SLAC.

NUST

From Arshad: Rector has agreed to support one person visit to SLAC. Raja has been nominated. He has sent a cv to Les and has filled out the DoE form. Les crafted the invitation and it has been sent to upper management for signature Dec 21, 2012. Les briefed the SLAC Cybersecurity person on 1/10/2013. He has also filled out another form for hosting visitors from sensitive nations. Les has taken and passed the training on hosting visitors from sensitive nations, so now it awaits the CIO passing it to the CEO for signature.

The December report on Pakistani educational node connectivity has been sent to the Rector for distribution to HEC. This was posted at <http://pinger.seecs.edu.pk/monthly-report/>.

PingER at SLAC

Les is working on a high level paper on PingER to be included in the IEEE Spectrum, February issue. He is also leading the preparation of the [annual report](#) to the International Committee for Future Accelerators (ICFA) Standing Committee on Inter-regional Connectivity (SCIC). Anjum is providing information on Pakistan under a case study. The report is due to Harvey Newman for ICFA on January 18th.

There is a draft [case study of routing from UNIMAS to S. E. Asia, and in particular Malaysia](#) .

TULIP

Raja has completed the MATLAB script and used it to generate some input files for Pakistan and Europe. However using the alpha values (function of both region and RTT value) found through the alpha analysis the distances were underestimates in some cases. He is working on finding the cause and possible solution.

Future meeting time - Les

Next meeting Wednesday 30 January 2013 8:00pm Pacific Daylight Time, Thursday 31st January 2013 9:00pm Pakistan time, Thursday 31st January 2013 12:00 noon Malaysian time.

Coordinates:

Institute	name and Email	Skype ID
UNIMAS	Johari Abdullah (johari.abdullah@gmail.com)	focusit unimas
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UTM	Prof. Dr Hanan <hanan@utm.my>	profhanan or Abdul Hanan Abdullah
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