Creating Annual ICFA Reports

Directory

Change the year (2014) as appropriate

```
144cottrell@pinger:~$mkdir /afs/slac/www/xorg/icfa/icfa-net-paper-jan14 # Top level directory
145cottrell@pinger:~$mkdir /afs/slac/www/xorg/icfa/icfa-net-paper-jan14/slaconly # Directory for spreadsheets,
images etc.
146cottrell@pinger:~$mkdir /afs/slac/www/xorg/icfa/icfa-net-paper-jan14/ICFA-report-14/ # Directory for drafts
148cottrell@pinger:~$ls -l /afs/slac/www/xorg/icfa/icfa-net-paper-jan14/
total 4
drwxr-xr-x 2 cottrell sf 2048 Dec 11 16:27 ICFA-report-14/
drwxr-xr-x 2 cottrell sf 2048 Dec 11 16:25 slaconly/
```

Permissions

```
152cottrell@pinger:~rajaasad$cd /afs/slac/www/xorg/icfa/icfa-net-paper-jan14
153cottrell@pinger:/afs/slac/www/xorg/icfa/icfa-net-paper-jan14


fs la

Access list for . is
Normal rights:
 g-www:g-scs-net rlidwk
 g-www:g-admin rlidwka
 g-www:g-scs rlidwka
 system:slac rl
 system:administrators rlidwka
 system:authuser rl

159cottrell@pinger:~$pts adduser -user rajaasad -group g-www:g-scs-net

165cottrell@pinger:~$pts mem g-www:g-scs-net
Members of g-www:g-scs-net (id: -6798) are:
 pinger
 rajaasad
```

Drafts etc.

The Word drafts go in

`/afs/slac/www/xorg/icfa/icfa-net-paper-jan14/ICFA-report-14/`

the naming convention is ICFA-report-2014-dec11.docx where the date changes according to the drafft. If more than one draft per day then use ICFA-report-2014-dec11-13.docx where 13 is the hour of the day.

The final version goes in

`/afs/slac/www/xorg/icfa/icfa-net-paper-jan14/report-jan14.docx`

It will be accessible from the web as http://www.slac.stanford.edu/xorg/icfa/icfa-net-paper-jan14/report-jan14.docx

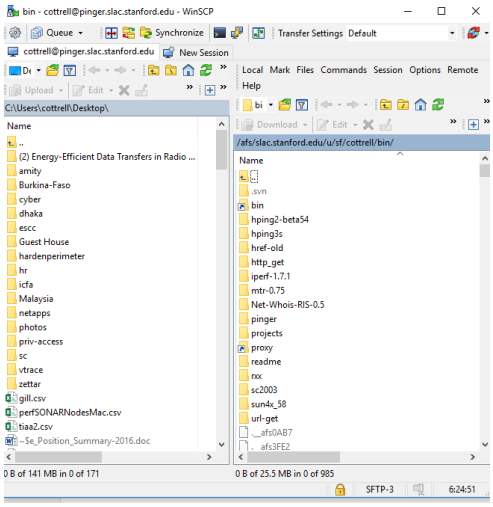
Where to find data/images etc.

Fig 1	Locations of PingER Monitoring and Remote sites	http://www-iepm.slac.stanford.edu/pinger/pingerworld/
Table 1	PingER Monitored Countries and populations	http://www-iepm.slac.stanford.edu/pinger/sites-per-country.html gives the number of countries monitored in a region.
Fig 3	Number of sites monitored by SLAC	Use http://www-wanmon.slac.stanford.edu/cgi-wrap/pingtable.pl, see the # pairs in the Summary at the end. This time of year is a good time to ensure we have at least 2 working sites per country. To find sites use HostSearcher.pl. To update the meta database use NODEDETAILS.

Fig 4	Packet loss by region by year	Look in /afs/slac/g/www/www-iepm/pinger/prmout/packet_loss-EDU.SLAC.STANFORD.N3-continent-allyearly.csv. You can also look in http://www-iepm.slac.stanford.edu/pinger/prmout/. The file is usually updated by prm.pl via trscrontab (see http://www-iepm.slac.stanford.edu/pinger/crontab-slaconly.txt) at the start of the year to get the previous year. You should run the script again (Note: You need to run it from pinger@pinger) time /afs/slac.stanford.edu/package/pinger/prm/prm.pl -lp true -c /afs/slac.stanford.edu/package/pinger/prm/prm-allyearly-continent.conff Once you have the csv file (see above) check the date with 155cottrell@pinger:~$ls -l /afs/slac/g/www/www-iepm/pinger/prmout/*-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1192 Dec 12 17:17 /afs/slac/g/www/www-iepm/pinger/prmout/MOS-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1485 Dec 12 15:59 /afs/slac/g/www/www-iepm/pinger/prmout/alpha-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1912 Dec 12 15:53 /afs/slac/g/www/www-iepm/pinger/prmout/average_rtt-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1631 Dec 12 15:53 /afs/slac/g/www/www-iepm/pinger/prmout/ipdv-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1745 Dec 12 17:11 /afs/slac/g/www/www-iepm/pinger/prmout/minimum_rtt-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 2949 Dec 12 15:55 /afs/slac/g/www/www-iepm/pinger/prmout/nthroughput-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1590 Dec 12 17:14 /afs/slac/g/www/www-iepm/pinger/prmout/packet_loss-EDU.SLAC.STANFORD.N3-continent-allyearly.csv -rw-rw-rw- 1 cottrell sf 1972 Dec 12 17:15 /afs/slac/g/www/www-iepm/pinger/prmout/throughput-EDU.SLAC.STANFORD.N3-continent-allyearly.csv then you can use Excel to produce the chart.
Fig 5	Minimum RTTs measured from SLAC	Go to http://www-iepm.slac.stanford.edu/pinger/explorer.html, click on Motion Histogram. You will need to update the data to bring it up to date. See PingER Data Explorer document.
Fig 7	Minimum RTT from SLAC to various Countries	See Fig 5 above and click on Line Chart instead of Motion Histogram.
Fig 8	Jitter from SLAC	See Fig 4, just use the csv file /afs/slac/g/www/www-iepm/pinger/prmout/ipdv-EDU.SLAC.STANFORD.N3-continent-allyearly.csv as input to Excel
Fig 9	Yearly averaged normalize derived TCP throughputs from SLAC	See Fig 4, just use the csv file /afs/slac/g/www/www-iepm/pinger/prmout/nthroughput-EDU.SLAC.STANFORD.N3-continent-allyearly.csv as input to Excel
Figs 10 & 11	Derived throughputs from SLAC	See Fig 4, just use the csv file /afs/slac/g/www/www-iepm/pinger/prmout/throughput-EDU.SLAC.STANFORD.N3-continent-allyearly.csv as input to Excel

Fig 12	Normalized throughputs to regions seen from CERN	Look in /afs/slac/g/www/www-iepm/pinger/prmout/nthroughput-CH.CERN.N20-continent-allyearly.csv. It is usually updated by prm.pl via trscrontab (see http://www-iepm.slac.stanford.edu/pinger/crontab-slaconly.txt) at the start of the year to get the previous year. You should run the script again
		
		`/afs/slac.stanford.edu/package/pinger/prm/prm.pl -lp true \`
		
		`-c /afs/slac.stanford.edu/package/pinger/prm/prm-allyearly-continent-cern.conf`
		
		Once you have the csv file (see above) you can use Excel to produce the chart.

Table 3	Derived throughputs in kbit/s	Go to http://www-wanmon.slac.stanford.edu/cgi-wrap/table.pl. Select From TLD, To Continent, TCP Throughput (kbits/s) and the previous month. Click on submit. Wait (be patient takes a couple of minutes). Cut and paste the resultant table into Excel and then use Excel to re-arrange and re-format.
Fig 14	Throughput from SLAC to SE Asian countries	Go to http://www-iepm.slac.stanford.edu/pinger/prmout/throughput-EDU.SLAC.STANFORD.N3-country-allyearly.csv download into Excel and extract Singapore, Malaysia, Vietnam,Indonesia, Brunei, Cambodia, Laos.
New Fig	Throughput from Malaysia to S.E. Asian countries	Go to http://www-iepm.slac.stanford.edu/pinger/prmout/throughput-Malaysia-country-allyearly.csv download into Excel and extract Singapore, Malaysia, Vietnam,Indonesia, Brunei, Cambodia, Laos.

Moving data between Linux and Windows

We use the WinSCP app