The MASTS Project

A punchy talk

Iain Phillips

2008

Talking about measuring a 10gig network is easier than actually doing it.

History

- Started 2004 (Oct and December)
- Finished 2008 (Mar, May) and 2009 (Feb?)
- Loughborough (CS+EE), Cambridge (CL), University College London (CS+EE)
- Aim to instrument UKLIGHT.
- Make a measurement set available to all.

Where are we now?

Big News

We are capturing packets . . .

And we're storing them . . .

Current Captures

- RAL-CERN 10Gig 2-directions - optical tap
- Telecity (on SuperJanet) 10Gig - mirroring
- Reading (on SuperJanet) 10Gig - optical tap

Storage

Store

```
                      +++
                      |s|    +-------+
----|Disk|---|M|---|w|---| Store |    +---+
----|Disk|---|M|---|i|    |       |---|DB |
----|Disk|---|M|---|t|    |       |   |WWW|---&&&
----|Disk|---|M|---|c|    +-------+   +---+
----|Disk|---|M|---|h|
                      +++
```

Store

```
                +++
                |s|   +-------+
----|Disk|---|M|---|w|---| Store |    +---+
----|Disk|---|M|---|i|   |       |    |---|DB |
----|Disk|---|M|---|t|   |       |    |WWW|---&&&
----|Disk|---|M|---|c|   +-------+    +---+    ^
----|Disk|---|M|---|h|                      YOU
                +++                         ARE
                                            HERE
```

http://data.mastsproject.org

Legalities

Framework

- We have a JANET(UK) agreement to share data
- This is applicable to other work monitoring JANET
- Can be used as a template for other projects
- 46PaQ has a Code of Practice for Network Monitoring.

Next

Status

- Capturing headers to big store
- Database nearly ready for users

Actions

- For us–finish the work
- For you–Fill in your AUPs

Comming Soon

...

- ▶ Wiki
- ▶ Respository of user tools for data processing
- ▶ Indexing in DATCAT - `www.datcat.org`
- ▶ more whacky research.