Real time

RIPE database

mirroring

Overview

- real time mirroring & distributed database
- how does the real time mirroring work ?
- what next ?
- discussion: missing pieces
- where to get the software

Real time mirroring

- part of the effort to design and implement a distributed registry database
- first step is to get to a system of nearly real time mirrored databases, beta version of this is now available
- read document: Towards a better distributed database model... Cengiz & David

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How does it work?

- updates are sent to the master database
- approved (atomic) updates/deletions get a serial number
- a tool queries a master/secondary database every once and a while to get the new updates and updates the local database
- when error: resync by ftp

What will be next?

- updates are sent to the master database
- approved (atomic) updates get a serial number
- multicast updates to registries
- when error: a tool queries a master/secondary database for missing updates and updates the local database
- last resort: resync by ftp

Discussion:Missing pieces

- registry object which includes the neighbor registries and what kind of registry we are: full mirror, only selected sites ..., which sites are allowed to query for the newest updates
- other serial number format then just an ever increasing integer
- object attribute that contains the serial number

Where to get it?

- beta version available: ftp://ftp.ripe.net/ripe/dbase/software/ripe-dbase.1.1beta.tar.gz
- local mirror is running, people that are interested can join. Send mail to <ripe-dbm@ripe.net>