Lire: Integrated Analysis of all your Internet and Intranet Services

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Who does not speak Dutch?

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This talk will discuss the technical aspects of Lire as well as the organisational aspects of LogReport as an open source project.

Log file analysis

Log file analysis is

- too often neglected, but
- giving access to invaluable information; however
- tedious and time-consuming, so
- in need for both flexible and generic software.

Why use Lire**?**

Lire is

- generic
- flexible
- free, in both senses of the word
- actively maintained, in an open environment
- highly configurable
- very portable
- secure

Lire's users

Lire is valuable for both

- system administrators, and
- business managers

Lire **supported log files**

Lire currently supports log files from

- www (apache, IIS, ...)
- dns (bind)
- firewall (cisco IOS, Linux, IP Filter, WELF)
- email (Exim, Postfix, qmail, sendmail, NMS)
- print (CUPS, LPRng)
- ftp (ProFTPD, WU-FTPD, MS IIS)
- proxy (squid, WELF, MS ISA)
- database (MySQL)

Ease of installation

Lire is GPL-ed, and comes as a tarball ("autoconfiscated"), as an RPM and as a Debian package. Written in Perl and shell, so runs on any Unix-like OS.

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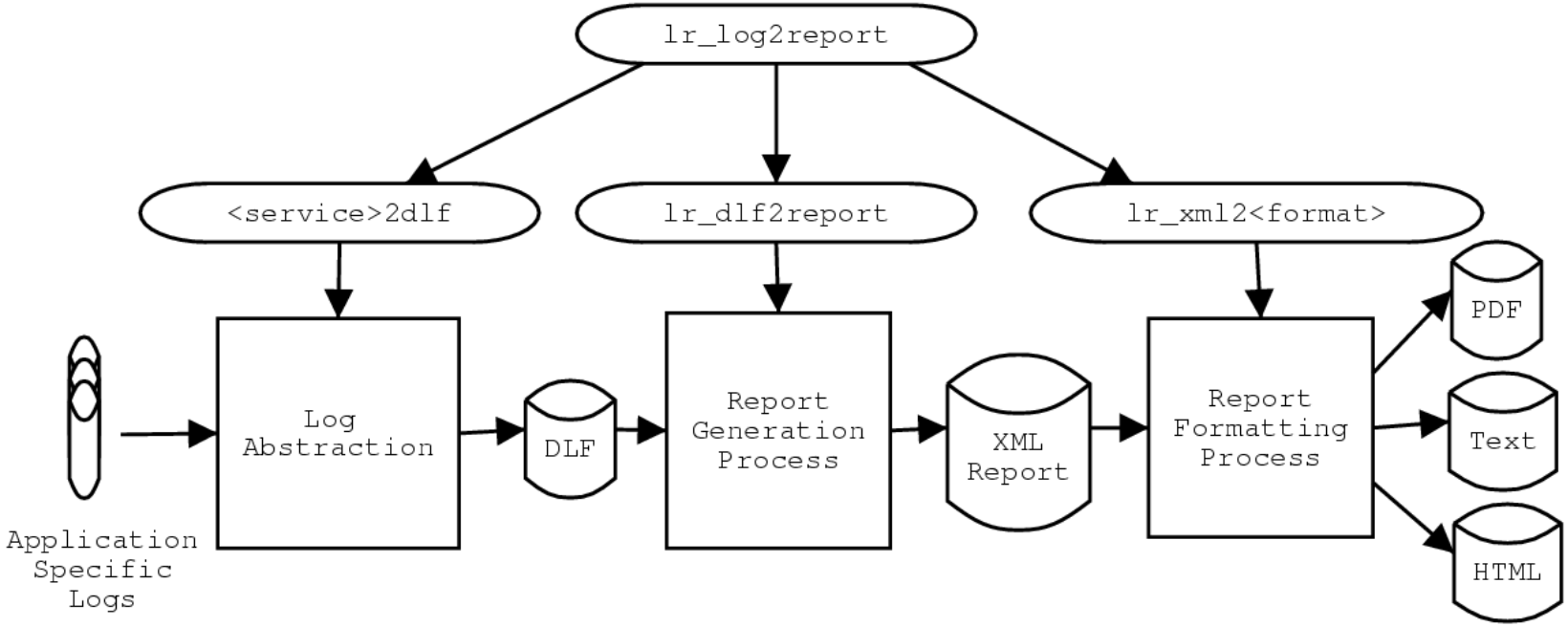
services, superservices and dlf's

dlf "distilled log format" space separated, line oriented, fixed fields

service raw log file format

superservice a class of services, sharing same dlf and report

Lire's Architecture

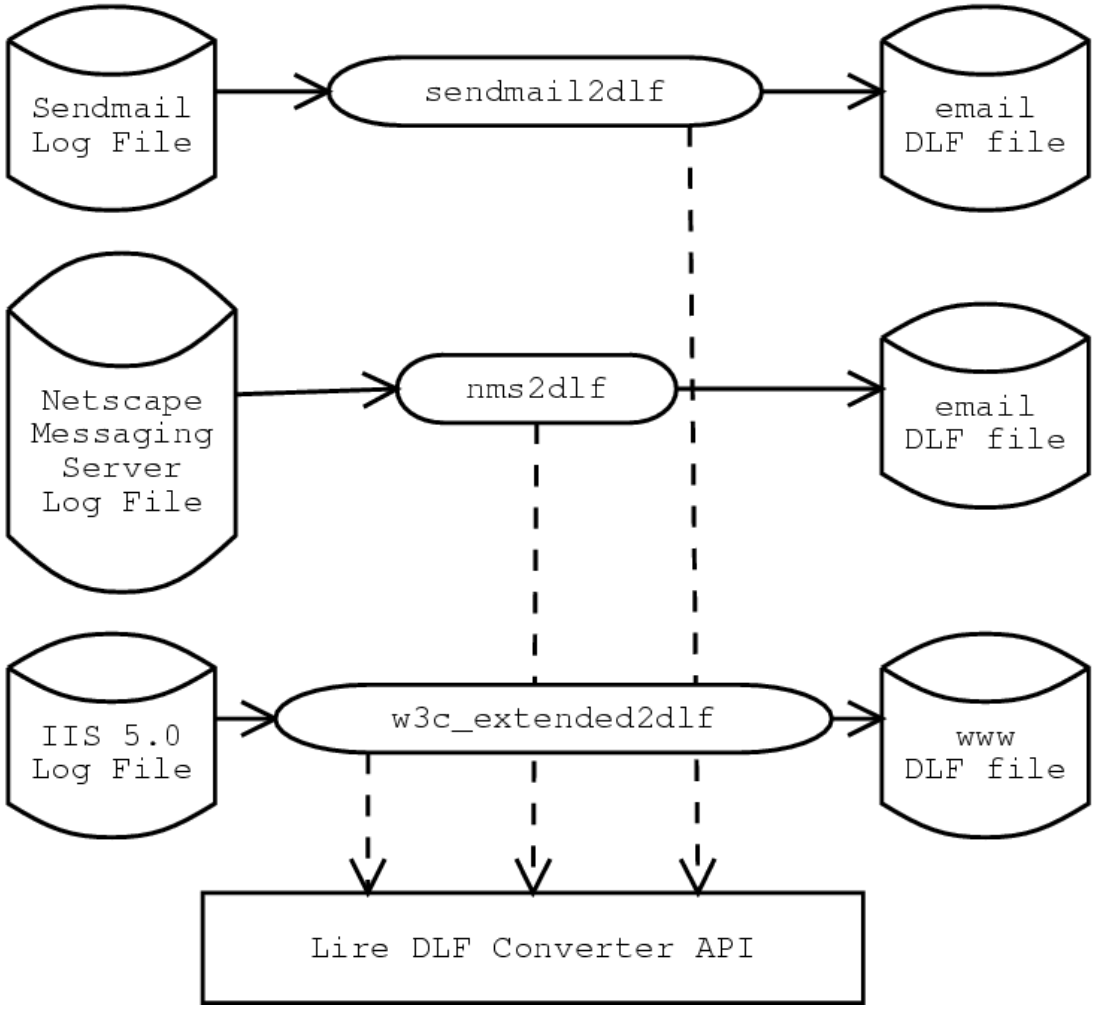


Running Lire

One can run Lire:

- as online responder
- as client
- from cron
- from command line

dlf **convertors**



Services and Superservices

A service:

- one raw log file format
- generally one service is one application
- belongs to one superservice
- example: the postfix service

A superservice:

- one dlf format
- a set of supported subreports
- a set of services
- example: the email superservice.

email dlf format

```
[...]
<lire:field name="time"        type="timestamp" default="0"/>
<lire:field name="queueid"     type="string"    default="-"/>
<lire:field name="from_user"   type="string"    default="-"/>
<lire:field name="from_domain" type="hostname"  default="-"/>
[...]
```

Report Specification

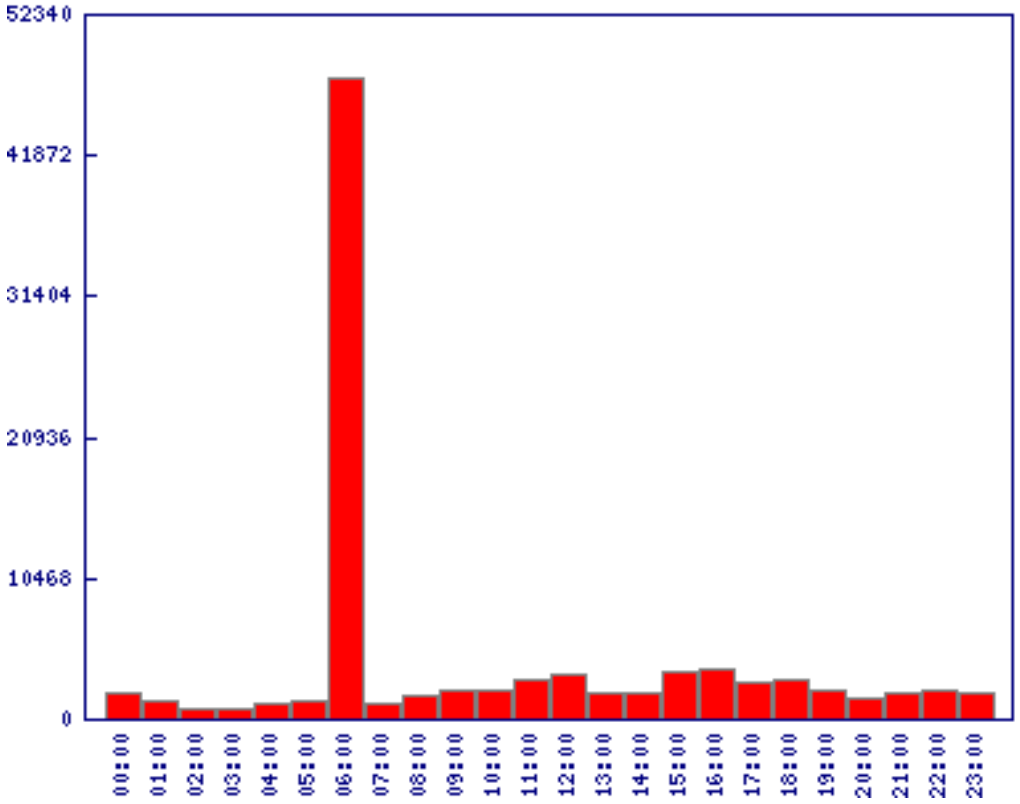
```
[...]
<lire:report-calc-spec>
 <lire:group sort="-mail_volume" limit="$domain_to_show">
  <lire:field name="to_domain"/>
  <lire:sum name="mail_volume" field="size"/>
 </lire:group>
</lire:report-calc-spec>
[...]
```

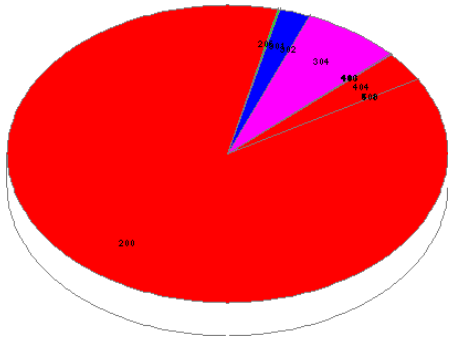
Report configuration file

```
# Report configuration for the proxy superservice

=section General
requests-summary

=section Denied Sites Reports
|select-cache_result result=TCP_DENIED
top-destinations            dsts_to_show=50
top-users-by-destinations   users_to_show=30 dsts_to_show=50
[...]
```

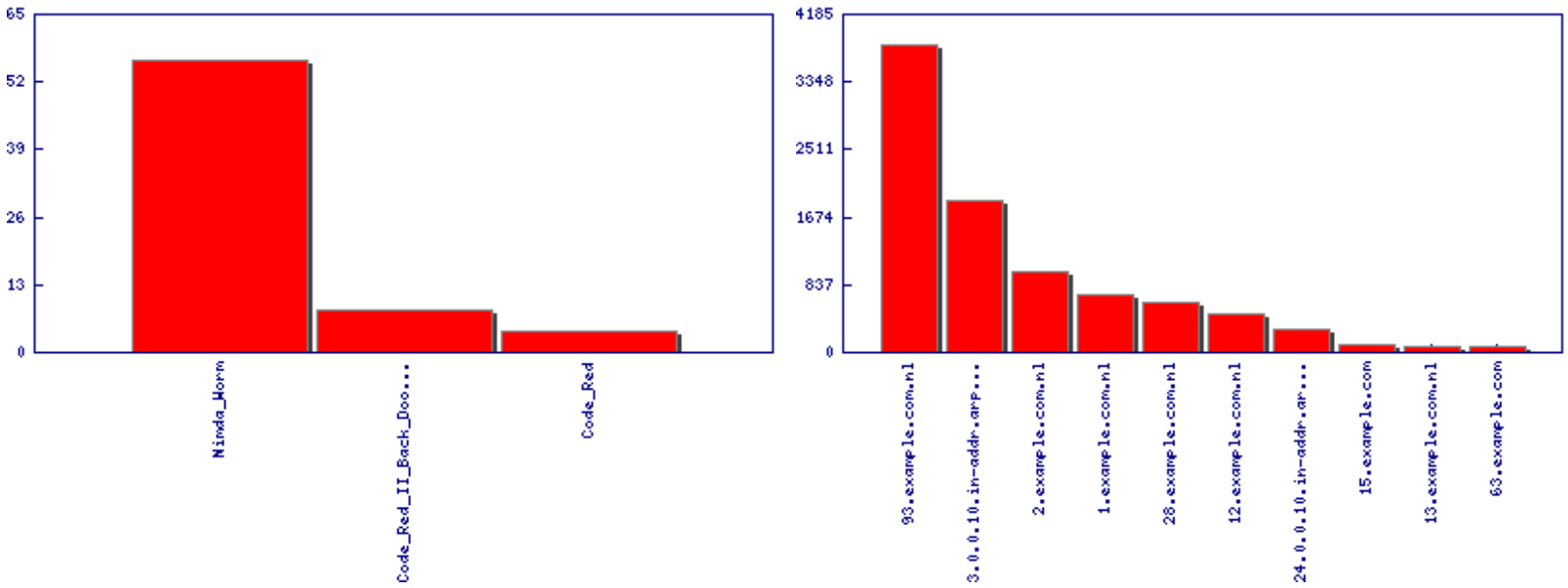
Example Graphical Reports

Some reports from the www superservice

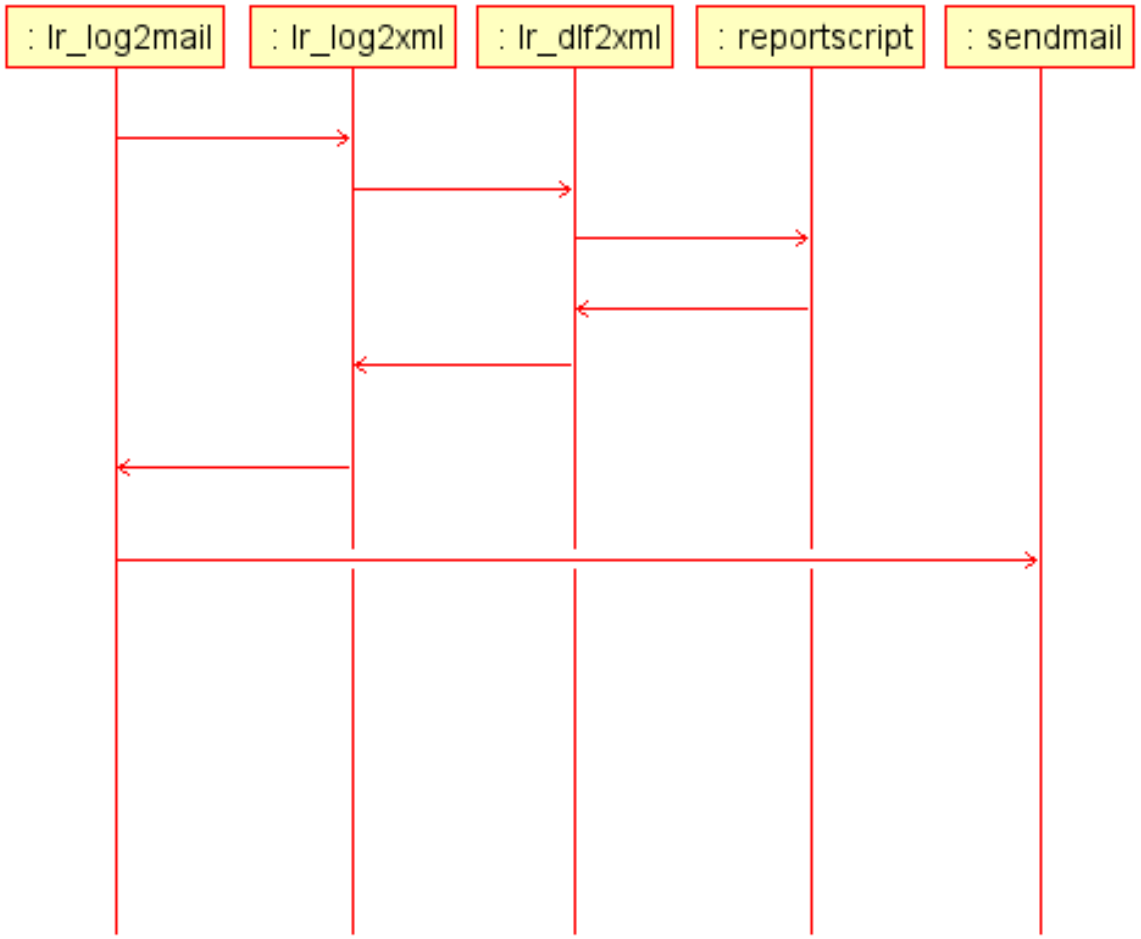




Some reports from the www and dns superservices



Lire's Scripts



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- Log file analysis
- Lire Overview
- Lire's Architecture
- Lire's Future
- The LogReport Project
- More information, contact, questions

Release, Roadmap

lire-20020214.tar.gz is realised!

But we have more plans:

- merging and splitting of reports and log files
- display
- performance: jade
- more services
- online responder
- configuration interface

LogReport people

LogReport developers

- Joost van Baal
- Wessel Dankers
- Josh Koenig
- Francis Lacoste
- Egon Willighagen

LogReport board

- Teus Hagen (chairman)
- Wytze van der Raay (treasurer)
- Jakob Schripsema (secretary)

How to help

- Use our Online Responder
- Sent (anonimized) log files
- Download Lire, and use it
- Give feedback on our mailinglists: feature requests, bug reports, help other people
- Even better: send patches and add support for other services
- Promote Lire: via webpages and mailinglists
- Fund us.

More information, contact info

website `http://www.logreport.org/`

mailing lists (archived) `questions@logreport.org`, `development@logreport.org`

irc `#logreport` on OPN

announcements `announcement@logreport.org`

Questions?