

Structure

1. ROADS software

Reading

ROADS web site at <http://www.roads.lut.ac.uk/>

ROADS peridoc documentation

IAFA templates

Protocol and Software

A protocol is a set of ideas on how a device should behave. Such a device may be an individual computer e.g. a web server, or a complete network, say the Internet.

Most protocols used on the Internet are published as Internet RFCs. This stands for Request for Comments. Recently the V3C have also been an important standard setting body.

There is software that implements a protocol. We will use three protocols.

telnet putty telnet client

ftp BSD ftp client

http apache server, netscape client

whois++ ROADS server software

All these are client server protocols. In UNIX the server is implemented in a daemon software.

Why ROADS

Free implementation of whois++

extensively used and tested in digital library project, most of them are subject gateways.

ROADS History

Funded by the UK Electronic Library programme to provide software for Subject-based Internet gateways such as Adam at <http://adam.ac.uk>, OMNI at <http://omni.ac.uk>, SOSIG at <http://sosig.ac.uk>.

These gateways are now federated in the Resource Discovery Network and interoperate through ROADS.

Install

Download the software: `lynx http://ww.roads.lut.ac.uk`

Uncompress: `gunzip roads-v2.3.tar.z`

De-archive: `tar -xf roads-v2.3.tar`

Go and have a look `cd roads-v2.3 ; ls`

Fire up the configure script: `./configure`

note the `.` is required because the directory we are in is not in the PATH to executable files.

The configure script

Email address of the person running the machine?

`thomas.krichel@lu.edu`

Email address of the ROADS database admin person?

`your_email_address`

Name of your service?

`your_username-on-wotan ROADS SERVER`

WWW paths, accepts suggestion, but prefix by

`your WWW home`

Server handle

`wotan@lu.edu student_number server_number`

WHOIS++ port number

`91 student_number server_number`

The configure script

Absolute path to temporary directory?

`/home/your_username/tmp`

URL of bullet point image on your Web server?

`your_web_home/ROADS/icons/redball.gif`

Things to do

for root

- Set up the services in `/etc/services`

- Configure web services `/etc/apache/srm.conf` and `/etc/apache/srm.conf`

for you

- `periodic` Configure