

c-icap project

Tuesday, 28 August 2007

Last Updated Tuesday, 28 August 2007

About c-icap

c-icap is the implementation of an ICAP (Internet Content Application Protocol) server.
For more information you can read RFC for ICAP at: <http://www.ietf.org/rfc/rfc3507.txt>

c-icap installation

In order to install c-icap from ports:

```
cd /usr/ports/www/c-icap
make install
```

c-icap configuration

After installation you can test c-icap by running:

```
/usr/local/bin/c-icap
```

Getting no error is good, after executing the previous line, you can check if c-icap process is still running. If not, there might be a problem with config file (`/usr/local/etc/c-icap.conf`).

To debug c-icap run it with the following parameters:

```
/usr/local/bin/c-icap -N -D -d 10
```

(-N will run c-icap in foreground, -D will write messages to standard output, -d 10 will enable full debugging informations)

Then, create a config file for c-icap:

```
touch /usr/local/etc/c-icap.conf
```

and add the following lines:

```
# ----- c-icap.conf -----
acl localsquid_respmo src 127.0.0.1 type respmo
acl localsquid src 127.0.0.1
acl externalnet src 0.0.0.0/0.0.0.0
icap_access allow localsquid_respmo
icap_access allow localsquid
icap_access deny externalnet
ServerLog /var/log/icap-server.log
AccessLog /var/log/icap-access.log
# ----- end c-icap.conf -----
```

c-icap testing

To test c-icap we will use icap-client:

```
/usr/local/bin/icap-client
```

You should get something like this:

```
ICAP server:localhost, ip:127.0.0.1, port:1344
```

OPTIONS:

Allow 204: No

Preview: 0

Keep alive: Yes

ICAP HEADERS:

ICAP/1.0 404 Service not found

To check a file for viruses:

```
/usr/local/bin/icap-client -f /home/admin/viruses/infected_file -s  
"srv_clamav?allow204=on&force=on&sizelimit=off&mode=simple"
```

The last step is to configure Squid.

Configure Squid

You must compile squid with c-icap support by adding "--enable-icap-support" to squid ./configure line.

After compiling and installing Squid, you will need to add the following lines to Squid.conf:

```
icap_enable      on  
icap_preview_enable on  
icap_preview_size 128  
icap_send_client_ip on  
icap_service     service_avi_req reqmod_precache 0 icap://localhost:1344/srv_clamav  
icap_service     service_avi respmod_precache 1 icap://localhost:1344/srv_clamav  
icap_class       class_antivirus service_avi service_avi_req  
icap_access      class_antivirus allow all
```

More info can be found on c-icap project website: <http://c-icap.sourceforge.net>

Also a tutorial for installing Squid + Clamav + c-icap can be found here:

<http://www.freebsdonline.com/content/view/345/354/>