🔗 Try NDNCERT Today

The `NDNCERT` and `repo-ng` are deployed on the ICE-AR server at UCLA, and the server has been connected to the NDN testbed. All issued certificates will be pushed to `repo-ng`.

To request a certificate, please see the below steps:

0) make sure `ndn-cxx`, `nfd`, and `Boost` are correctly configured on the machine

1) get the latest version of NDNCERT on https://github.com/named-data/ndncert

2) switch to the `ndncert` direcory, compile, and install ndncert by running

```
cd ndncert
./waf configured
./waf
./waf install
```

If installation fails, try using `sudo ./waf install`.

3) switch to `/usr/local/etc/ndncert`, and create `client.conf`

use the following configuration for this file

```
{
  "ca-list":
  [
        {
        "ca-prefix": "/ndn/edu/ucla/yufeng",
        "ca-info": "UCLA CA in NDN Testbed",
        "probe": "email",
        "certificate":
        "Bv0DfQc2CANuZG4IA2VkdQgEdWNsYQgGeXVmZW5nCANLRVkICHelnivON8k8CAJOQQgJ/QAAAWx3XLP1FAkYAQIZBAA27oAV/(
        }
  ]
}
```

4) make sure NFD is running, and your machine is connected to the NDN testbed. If not, perform the following operations to start NFD and connect to testbed:

```
nfd-start
nfdc face create udp4://spurs.cs.ucla.edu
```

After you run the face creation command, you will see a face ID. Substitute the face ID into the below commands.

```
nfdc route add /ndn FACE_ID
```

5) Request a certificate by running ndncert-client on your terminal, and enter the required information.

Try NDNCERT (Old version)

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Step 1

Download and install NDNCERT (https://github.com/named-data/ndncert).

```
git clone https://github.com/named-data/ndncert.git
cd ndncert
./waf configure
./waf
./waf install
```

Step 2

Download the configuration file (out-of-band bootstrapping).

```
curl -o /usr/local/etc/ndncert/client.conf https://zhiyi-zhang.com/content/client-conf.txt
```

Step 3

Get your NFD connected to the NDN Testbed (If you don't know how, please visit http://named-data.net/doc/NFD/current/INSTALL.html#connecting-to-remote-nfds)

A summary of this process is also shown as follow.

Currently, the NDNCERT test server is only available through UCLA's NDN forwarder (`udp4://spurs.cs.ucla.edu`), so please use `udp4://spurs.cs.ucla.edu` in the route to NDNCERT test server. The CA is under the prefix `/ndn/edu/ucla-ndncert/CA` .

```
nfd-start # start nfd
nfdc face create udp4://spurs.cs.ucla.edu # create a face to UCLA site
nfdc route add /ndn [face_id] # [face_id] is shown in the result of the last command
```

Step 4

Run `ndncert-client` command line tool to get a certificate. Just follow the prompt in the command line tool.

```
ndncert-client
```