

# Setup Guide

## Client

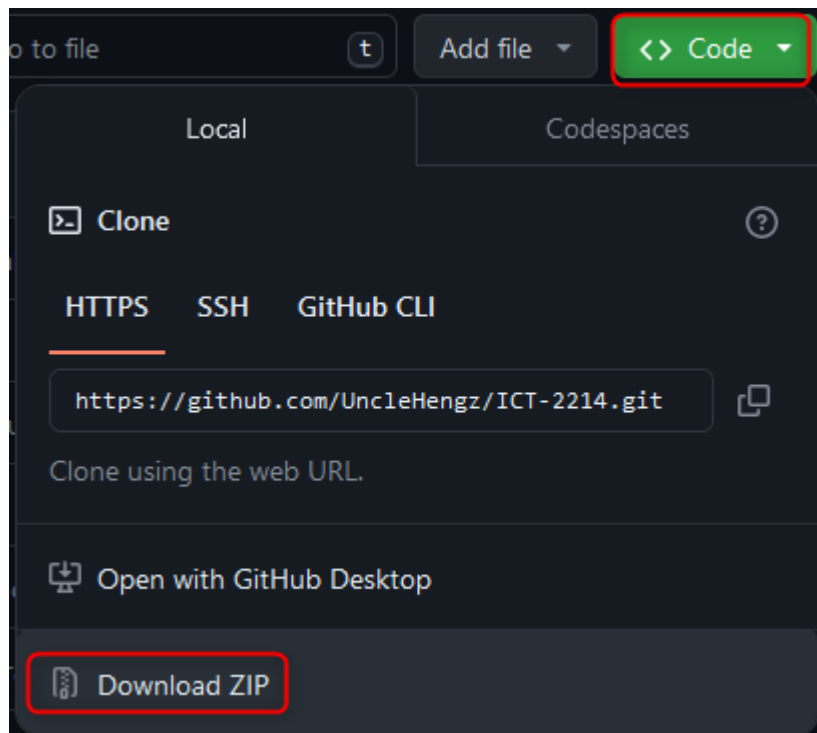
### Download Client Files

**Step 1: Clone the project repository to the target folder**

- `git clone https://github.com/UncleHengz/ICT-2214.git`

OR

**Step 1: Download and Extract from GitHub**



**Step 2: Files to Modify to Point IP Address to Server**

- 2 Files
  - ICT2214/client/domains\_script.js
  - ICT2214/client/index\_script.js
- Replace all instances of **20.185.144.144** with desired IP address

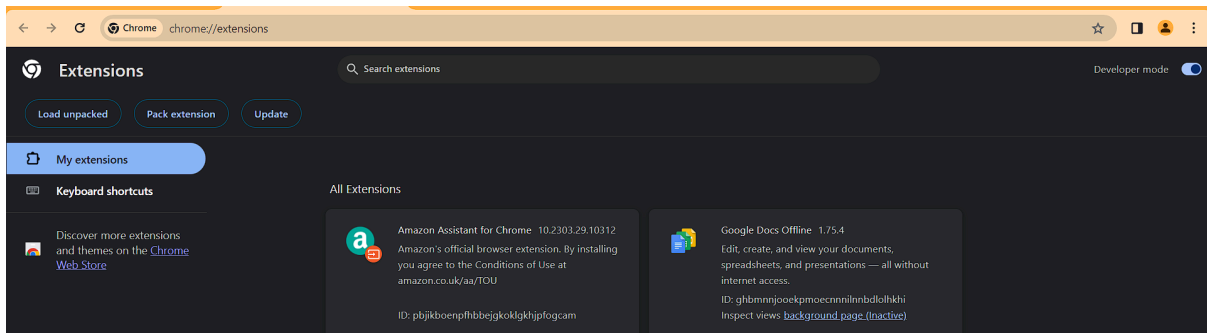
### Chrome Extension Installation

**Step 1: Open Google Chrome Browser**

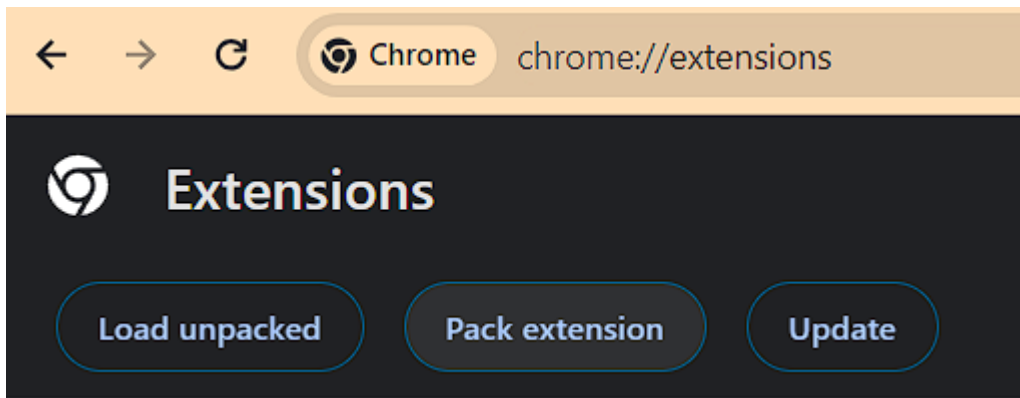
**Step 2: Browse to manage the Chrome extensions**

- `chrome://extensions/`

**Step 3: Toggle “Developer mode” to “On”**

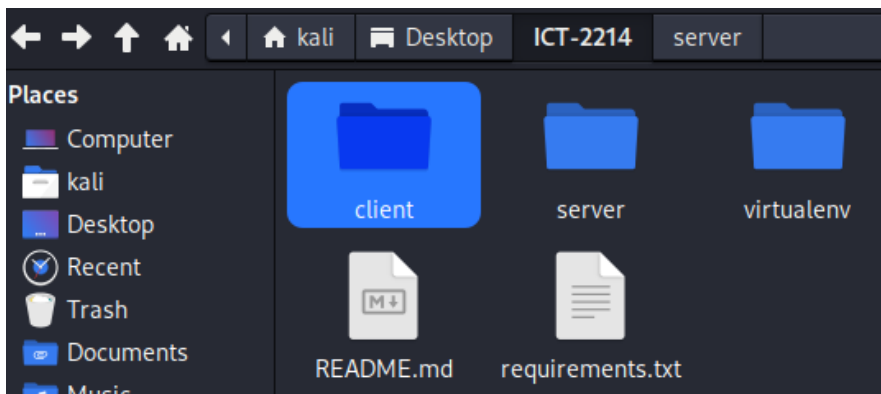


#### Step 4: Select the “Load unpacked” button

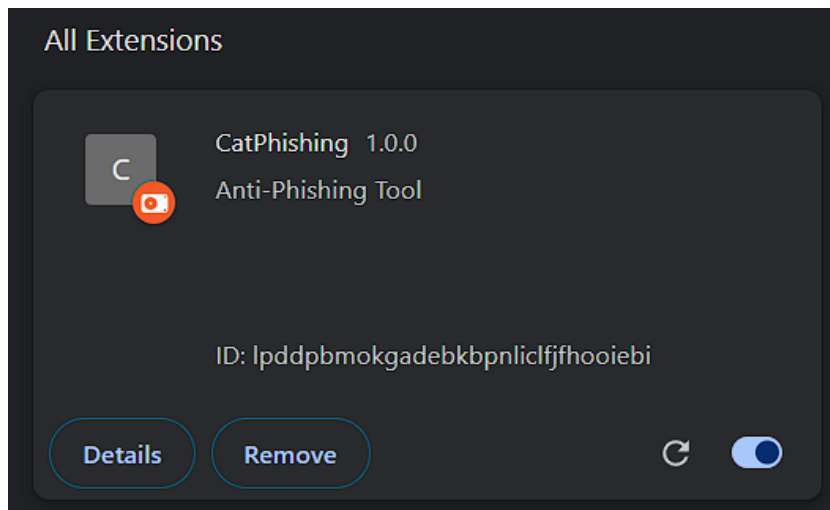


#### Step 5: Locate the “/client” folder on host machine

- should be found in the cloned ICT-2214 folder

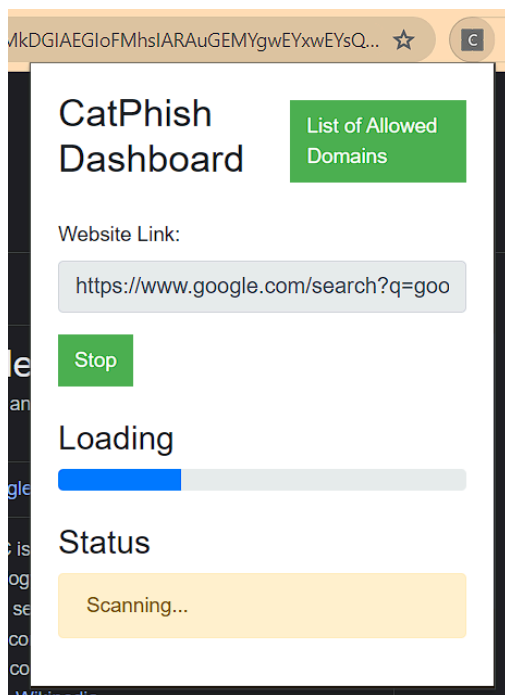
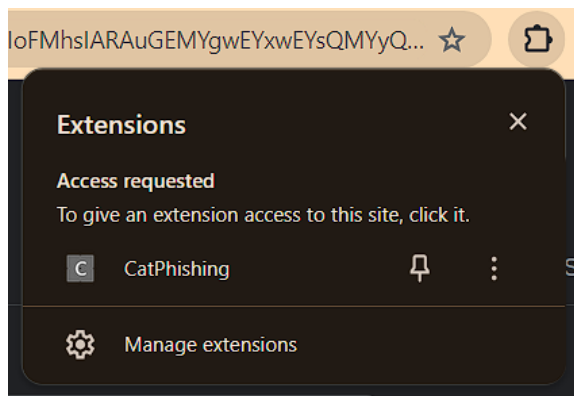


#### Step 6: Extension will be successfully installed in Chrome Browser and can be found in extensions page



### Step 7: To access Cat-Phish extension

- Click on the extensions button found beside the URL bar
- Click on "Cat-Phish"



# Server

## Python Flask

### Step 1: Clone the project repository to the target folder

- `git clone https://github.com/UncleHengz/ICT-2214.git`

```
(kali㉿kali)-[~/Desktop]
$ git clone https://github.com/UncleHengz/ICT-2214.git
Cloning into 'ICT-2214' ...
Username for 'https://github.com': Edkaa
Password for 'https://Edkaa@github.com':
remote: Enumerating objects: 790, done.
remote: Counting objects: 100% (73/73), done.
remote: Compressing objects: 100% (54/54), done.
remote: Total 790 (delta 19), reused 72 (delta 18), pack-reused 717
Receiving objects: 100% (790/790), 136.10 MiB | 11.31 MiB/s, done.
Resolving deltas: 100% (420/420), done.
Updating files: 100% (39/39), done.
```

### Step 2: Navigate to created ICT2214 folder

### Step 3: Setup a Python virtual environment

- `sudo apt update`
- `sudo apt install python3-virtualenv`
- `virtualenv -p python virtualenv`
- make sure that Python3 version is 3.9 and above

```
(kali㉿kali)-[~/Desktop/ICT-2214]
$ virtualenv -p python3 virtualenv
created virtual environment CPython3.11.8.final.0-64 in 740ms
creator CPython3Posix(dest=/home/kali/Desktop/ICT-2214/virtualenv, clear=False,
no_vcs_ignore=False, global=False)
seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bu
dle, via=copy, app_data_dir=/home/kali/.local/share/virtualenv)
added seed packages: pip=24.0, setuptools=68.1.2, wheel=0.42.0
activators BashActivator,CShellActivator,FishActivator,NushellActivator,Pow
erShellActivator,PythonActivator

(kali㉿kali)-[~/Desktop/ICT-2214]
$ python3 --version
Python 3.11.8
```

### Step 4: Activate the created Python3 virtual environment

- `source virtualenv/bin/activate`
- When it is activated, it will be shown beside the name (on the left)

```
(kali㉿kali)-[~/Desktop/ICT-2214]
$ source virtualenv/bin/activate

(virtualenv)-(kali㉿kali)-[~/Desktop/ICT-2214]
$
```

### Step 5: Install all Python libraries found in requirements.txt

- `pip3 install -r requirements.txt`

```
(virtualenv)-(kali@kali)-[~/Desktop/ICT-2214]
$ pip3 install -r requirements.txt
Collecting annotated-types==0.6.0 (from -r requirements.txt (line 1))
  Downloading annotated_types-0.6.0-py3-none-any.whl.metadata (12 kB)
Collecting anyio==4.3.0 (from -r requirements.txt (line 2))
  Downloading anyio-4.3.0-py3-none-any.whl.metadata (4.6 kB)
Collecting attrs==23.2.0 (from -r requirements.txt (line 3))
```

## Step 6: Install the additional file required to be used in content comparison

- `python -m textblob.download_corpora`

```
(virtualenv)-(kali@kali)-[~/Desktop/ICT-2214]
$ python -m textblob.download_corpora
[nltk_data] Downloading package brown to /home/kali/nltk_data ...
[nltk_data]   Unzipping corpora/brown.zip.
[nltk_data] Downloading package punkt to /home/kali/nltk_data ...
[nltk_data]   Unzipping tokenizers/punkt.zip.
[nltk_data] Downloading package wordnet to /home/kali/nltk_data ...
[nltk_data] Downloading package averaged_perceptron_tagger to
[nltk_data]   /home/kali/nltk_data ...
[nltk_data]   Unzipping taggers/averaged_perceptron_tagger.zip.
[nltk_data] Downloading package conll2000 to /home/kali/nltk_data ...
[nltk_data]   Unzipping corpora/conll2000.zip.
[nltk_data] Downloading package movie_reviews to
[nltk_data]   /home/kali/nltk_data ...
[nltk_data]   Unzipping corpora/movie_reviews.zip.
Finished.
```

## Step 7: Start Python Flask

- navigate to ICT-2214/server directory
- `python main.py`

```
(virtualenv)-(kali@kali)-[~/Desktop/ICT-2214/server]
$ python main.py
* Serving Flask app 'main'
* Debug mode: on
WARNING: This is a development server. Do not use it in a
production environment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://192.168.153.128:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 140-895-505
```

# Cronjob

## Step 1: Set up the Cronjob for the updating of the external database.

- `crontab -e`

- a) 0 \* \* \* \* /usr/bin/python3  
/home/suibiandeming/ICT-2214/external\_database\_update/server/externalDB  
.py
- b) 0 \* \* \* \* /usr/bin/python3  
/home/suibiandeming/ICT-2214/server/copy\_updated\_db.py

```
suibiandeming@Project-Server:~/external_database_update$ crontab -e
GNU nano 4.8 /tmp/crontab.OpZ2LS/crontab
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow   command
0 * * * * /usr/bin/python3 /home/suibiandeming/ICT-2214/external_database_update/externalDB.py
0 * * * * /usr/bin/python3 /home/suibiandeming/ICT-2214/server/copy_updated_db.py
```