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# Preparing dictionaries that list resources to block

Preparing a dictionary with a list of resources to block takes two steps. Firstly, one creates a text file with a list of resources. Secondly, one converts this file into an internal format by means of a special utility.



The conversion is carried out with two utilities:

- url2dic - for URL, SNI CN
- ip2bin - for IP

## File format with a list of URLs to block:

Each line contains one URL (with no http:// prefix). For example:

```
imagehut.com/users.php?act=gallery&gal=81&page=4  
3dmx.net
```

To convert into the internal format

```
cat my_url_list.txt|url2dic my_url_list.dic
```

To convert into the internal format with automatic conversion of domains and URL-letters written in the national alphabet in utf-8 encoding:

```
cat my_url_list.txt|url2norm|url2dic my_url_list.dic
```

## File format with a list of names to block in SSL certificates:

Each line contains one [name](#). For example:

```
*.facebook.com  
www.vasexpertsdpi.com
```

To convert into the internal format:

```
cat my_cn_list.txt|url2dic my_cn_list.dic
```

## File format with a list of public SNI (HTTPS domains)

Each line contains one SNI (without http:// prefix), it is allowed to use \*, for example:

```
qiwi.ru  
*.qiwi.ru
```

To convert into internal format

```
cat my_sni_list.txt|url2dic my_sni_list.bin
```

## File format with a list of IP addresses to block:

Each line contains one IP then space then the port's number:

```
78.47.115.34 443  
95.211.6.92 443
```

To convert into the internal format:

```
cat my_ip_list.txt|ip2bin my_ip_list.bin
```