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# Preparing white list

The allowed resources list is created in two steps: first, **a text file** with the list of resources is created. Second, this **file is converted** into internal dictionary's format by the special utility.

The following utilities are used for conversion:

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



Reverse conversion utilities:

- dic2host - to convert dic files with URL, SNI, CN to a list of domains
- dic2star - to convert dic files from SNI, CN to a list of domains with \*
- bin2ip - to convert dic files from IP

To create a white list for payment systems, we recommend using a ready-made list.  
[List of payment systems](#)

After the text file is converted you need to move the lists to the DPI configuration directory:

```
mv my_url_list.bin /var/lib/dpi/whlist.bin
mv my_cn_list.bin /var/lib/dpi/whlistcn.bin
mv my_ip_list.bin /var/lib/dpi/whlistip.bin
mv my_sni_list.bin /var/lib/dpi/whlistsni.bin
```



This list names are used for the default profile.

Any of the lists may be missing, but for restricting https resources, the SNI list is mandatory

## The file format of the whitelisted resources' URLs:

Each line contains one URL (no http:// prefix), it is allowed to use \*. **For example:**

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

To convert into the internal format:

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

## The file format of the whitelisted names in SSL certificates (Common name):

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
```

## The file format of the whitelisted SNI (HTTPS)

Each line contains one SNI (without http:// prefix). It is allowed to use \*. **For example:**

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

To convert into the internal format:

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



To prevent the https sites blocking, you have to prepare white list for CN, SNI with \* **symbol**, signaling that CN and SN can be any.

## File Format for White List of IP Addresses, CIDR:

Starting from version 12.4, the creation of a list is supported based on:

- IPv4 <space> port\_number
- IPv4
- IPv6 <space> port\_number
- IPv6
- CIDR IPv4/IPv6

Each line of the file contains only one entry, example for IPv4:

```
78.47.115.34 443  
95.211.6.93
```

95.211.4.0/24

Convert to internal format:

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



If an IP address or CIDR is specified, **ONLY ALL TCP ports except for the allowed IP/CIDR are blocked**. To block UDP ports, you need to enable the [udp\\_block=3](#) setting in `/etc/dpi/fastdpi.conf`