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# 1 Traffic analysis

## Equipment

To configure the correct operation of the Traffic Parsing section, you must add equipment of the "Pcap Parsing Server" type to the [Equipment List Management section](#).

Traffic parsing equipment configuration:

1. Processor (CPU) 2.5 GHz, 2 pcs
2. Random access memory (RAM) from 4 GB
3. Hard disk drive (HDD) from 100 GB
4. Operating system Ubuntu 20.04

To install the necessary utilities, run the following command:

```
apt install wireshark tshark sox
```

## Section

To go to the traffic parsing section in the menu, go to the "Lawful interception"→"Traffic parsing"→"Traffic parsing" section.



The Traffic Parsing section looks like the figure below.



## Tasks

The tasks for Traffic Mining are located on the left side of the Traffic Mining page.

### Creating a task

To create a new Traffic Analysis task, click the "+" button in the toolbar above the list of existing tasks.



In the task creation form that opens, enter:

- Task name
- Description of the task

Click the "Save" button.

## Editing a task

To edit a task, click the edit button next to an existing task.



In the task editing form that opens, change:

- Task name
- Description of the task

Click the "Save" button.

## Deleting a task

To delete a task, click the "Delete" button next to the existing task and confirm or cancel the action.



## Files

The files for Traffic Parsing are located in the central part of the Traffic Parsing page.

### Add file

To add a new file for Traffic Parsing, click on the "+" button in the toolbar above the list of added files.



In the opened form for adding a file:

- Upload or drag pcap file;
- If necessary, set the display name and description for the file;
- Specify the required types of traffic parsing (Web, Dns, Mail, Voip, Ftp);

Click the "Save" button.

### Editing the file

To edit a file for Traffic Parsing, click the edit button next to an existing file.



In the file editing form that opens, you can change:

- Displayed file name;
- Description of the file;
- Types of traffic parsing (Web, Dns, Mail, Voip, Ftp);

Click the "Save" button.

If changes have been made to the types of traffic parsing, a confirmation form for restarting traffic parsing for this file will appear on the screen.

## **Deleting a file**

To delete a file, click on the "Delete" button next to the existing file and confirm or cancel the action.



## **Restart file parsing**

To restart file parsing:

1. Select the required file from the list;
2. Click on the restart parsing button in the toolbar;
3. Confirm or cancel the action.



## **Importing files from the traffic capture section**

Files for traffic parsing can be imported from the "Traffic Capture" section.

Go to the "Lawful Interception"→"Traffic Capture" section.



In the list of files, select the files you want to parse and click the parse button.



In the opened form:

- Select the Traffic Parsing task into which the files will be imported.
- If "New task" is selected, enter the name of the task that will be created during import.
- Parse types for imported files (Web, Dns, Mail, Voip, Ftp).



Click on the "Apply" button. After the file import process is completed, a window will appear prompting you to go to the "Traffic Analysis" section.

## Parsing results

The parsing results are located on the right side of the Traffic Parsing page.



### Web

The Web parsing results tab displays HTTP requests.

### Requests

The "Requests" tab displays "raw" data about requests.

The following data is available in the table:

- Date and time of request
- Request address
- Size of response in bytes
- Method



When you click on the "Additional information about the request" (?) button, a popup will open with additional information about the request:

- Agent
- Host
- Url
- Type of content
- Encoding
- Request method
- Response code
- Size of response in bytes
- Sender port
- Destination port
- TCP time
- IP protocol
- IP version
- Sender IP
- IP received
- Eth type
- Sender's Eth
- Eth of the recipient

- File ID to parse
- Filename to parse
- Filename with response content



## Pictures

The Images tab displays queries that returned images.



## DNS

The DNS parsing results tab displays the hosts.

The following data is available in the table:

- Date and time of request
- Host



## Additional information

When you click on the "Additional information about the request" (?) button, a popup will open with additional information about the request:

- List of hosts
- Address list
- List of certificates
- Request date
- Response time
- Sender port
- Destination port
- IP protocol
- IP version
- Sender IP
- Destination IP
- Eth type
- Sender's Eth
- Eth of the recipient
- Request ID
- File ID to parse
- Filename to parse



## Mail

On the MAIL parsing results tab, sent/received Emails.

The following data is available in the table:

- Date and time of sending / receiving;
- Sender
- Recipient
- Letter subject



## Content

When you click on the Message Content button, a popup will open in which are available:

- Sender
- Recipient
- Letter subject
- Text of the letter
- List of attached files to the letter (can be downloaded)



## Additional information

Clicking on the Additional Information(?) button will open a popup with additional information about the letter:

- Sender port
- Destination port
- IP protocol
- IP version
- Sender IP
- Destination IP
- Eth type
- Sender's Eth
- Eth of the recipient
- Sender
- Recipient
- Topic
- Letter ID
- User Agent
- MIME version
- Type of content
- Language
- Composite type
- Composite content type



- Multipart content encoding
- Disposition of compound content
- Request ID
- File ID to parse
- Eml file name



## Voip

On the Voip parsing results tab, information about completed Voip sessions.

The following data is available in the table:

- Date and time of the session
- Session duration
- caller
- Callable



## Audio recording

When you click on the Recordings button, a popup will open where you can listen to audio recordings:

- caller
- Callable
- Combined



## Query Logs

When you click on the Request logs button, a popup will open with the logs of all session requests.



## Additional information

When you click on the "Additional information" (?) button, a popup will open with additional information about the session:

- Sender port
- Destination port
- IP protocol
- IP version
- Sender IP

- Destination IP
- Eth type
- Sender's Eth
- Eth of the recipient
- Session duration
- caller
- Callable
- Call ID
- Ssrc outgoing
- Ssrc incoming
- Audio file names
- File ID to parse



## FTP

The FTP parsing results tab displays files sent/received via FTP. The following data is available in the table:

- Date and time of request
- File name
- Direction (Download/Upload)
- File size in bytes
- Customer address
- Server address



## Additional information

When you click on the "Additional information" (?) button, a popup will open with additional information about the request:

- Sender port
- Destination port
- IP protocol
- IP version
- Sender IP
- Destination IP
- Eth type
- Sender's Eth
- Eth of the recipient
- File name
- Ftp Directory
- File size in bytes
- Direction
- File ID to parse
- Response file



## Traffic parsing logs

To go to the section of traffic parsing logs in the menu, go to the "Lawful interception"→"Traffic parsing"→"Traffic parsing logs" section.



The traffic parsing log section looks like the figure below.

