# **Configuration files**

an in-depth quide on tBB configuration files

#### Introduction.

If you wish to configure tBB settings, you have to use the configuration files tBB is instructed to use. These files are always located in the root tBB folder. Please check where this folder is located before continuing reading.

Please, note that you're free to change settings in these files at any time, but if you want your changes to take effect you'll to have to restart tBB.

### Configuration files types.

There are two different kinds of configuration files: the default configuration file and optional network-specific configuration files. The default configuration file comes along with tBB and configures it to use a general-purpose-suitable configuration. You may want to check if the built-in default configuration suits your needs and preferences before start using it.

The network-specific configuration files are only invoked when tBB had been launched passing a network as an argument. In this case, tBB is instructed to look for a specific configuration file in the main tBB folder. If no such file is found, tBB will fall-back to the default configuration file.

Any field that is not set in the network-specific configuration file will fall-back to the value set in the default configuration file.

### Network-specific configuration files naming conventions.

Specific configuration files naming conventions follow the scans naming conventions. For instance, if you want to create a configuration file for network 192.168.100.0/24 you're going to need to create a file named "config\_192.168.100.0/24-256.json". Please note the backslash replacing the forward slash (forward slash is invalid for the Unix file name conventions). Also note the given network length in the filename.

This rigid naming conventions allow tBB to use the correct configuration file for every network you may want to monitor.

### Configuration fields.

The configuration files are in JSON format and therefore nested as of the nature of JSON (see RFC#7159).

You may use the following macros while defining a field value: "{default\_time\_format}", "{frontends\_socket\_port}". They will be replaced by the appropriate value at runtime.

Italic example values are the default values.

These are the fields tBB accepts, divided in the appropriate nested sections, given in no particular order:

#### Root-level:

Description	Example values
 The network tBB is called to monitor.	192.168.100.0/24 192.168.100.0/24-10

seconds	Maximum amount of time for which tBB will not re-perform a complete scan on startup (in seconds).	10 → 10 seconds <i>3600 → 1 hour</i> 86400 → 1 day
frontends_socket	Front-ends communication section. See below.	
logging	Logging section. See below.	<b></b>
tracker	Tracker section. See below.	<b></b>
serialization	Serialization section. See below.	

# frontends\_socket:

Field name	Description	Example values
host	IP from which open the socket.	192.168.100.101 localhost
port	Port number from which open the socket.	<i>1984</i> 65000
maximum_port_lookup	Maximum number of times tBB will look for another open port if the specified one isn't available.	E _
ssl	Enable/disable SSL communication.	<i>true</i> false
do_checks	Enable/disable host name checking with SSL enabled. If enabled, certificates must be valid.	<i>true</i> false

# <u>logging</u>:

Field name	Description	Example values
version	Always set this field to 1.	1
<pre>disable_existing_log gers</pre>		<i>false</i> true
formatters	Formatters section. See below.	
handlers	Handlers section. See below.	
loggers	Loggers section. See below.	•••

### <u>formatters</u>:

Note: this field is a list. Each item configures one logging formatter that can be identified by the name given to the field. Shown are the item's fields.

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Field name	Description	Example values
	String to format logging upon. For further details see <u>related documentation</u> .	<b></b>
	String to format dates upon (optional).  Macro "{default_time_format}" is available. For further details see related documentation.	

#### handlers:

Note: this field is a list. Each item configures one logging handler that can be identified by the name given to the field. Shown are the item's fields.

Field name	Description	Example values
level	One of "DEBUG", "INFO", "WARNING", "ERROR", "CRITICAL". For further details see <u>related documentation</u> .	<b></b>
class	A valid logging handler class. For further details and a list of available handler classes, see <u>related documentation</u> .	
formatter	One of the formatters defined in "logging" → "formatters"	
МОГЕ	Other fields can possibly be defined for each handler, but they are strictly related to the class you're using. For further details on class-dependent fields, please see related documentation.	

### <u>loggers</u>:

Note: this field is a list. Each item configures one logger that can be identified by the name given to the field. The name "" (blank) and the name "root" identify the default logger. Shown are the item's fields.

Field name	Description	Example values
	List of handlers to use for this logger as defined in "logging" $\rightarrow$ "handlers".	["console", "file", "syslog"]
level	Logging level to use for this logger. One of "DEBUG", "INFO", "WARNING", "ERROR", "CRITICAL". For further details see related documentation.	
propagate	Enable/disable logging propagation. For further details see <u>related documentation</u> .	<i>true</i> false

#### serialization:

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Field name	Description	Example values
	Indent value for pretty saving of scan files. If set to null, it will also prefent \n's from being written to file.	<i>4</i> null 2
do_sort	Emable, albabie item borting within bean ines.	<i>true</i> false

#### <u>tracker</u>:

Description				Example values		
Number		_	sub-networks		_	<i>16</i> 64

	=	8	
	divided into. Must be a valid network length.		
enable_notifiers	Enable/disable notifiers.	<i>true</i> false	
auto_ignore_broadcas ts	Enable/disable automatic broadcasts ignore. If enabled, when a broadcast is detected during a scan, it will be ignored in the next ones.	<i>true</i> false	
time_between_checks	Divided into "minutes" and "seconds".	{"minutes": "seconds": 2} {"minutes": "seconds": 30}	0, 1,
<pre>maximum_seconds_rand omly_added</pre>	Maximum amount of time to add randomly to "time_between_checks" (in seconds). Must be a positive integer.		
ignore	List of IPs to ignore.	[]	
ignore_mac	List of MACs to ignore.	[]	
агр	ARP section. See below.	•••	
disoveries	Discoveries list. See below	<b></b>	

#### <u>агр</u>:

Field name	Description	Example values
count	Number of ARP broadcasts to emit.	3
	Maximum amount of time in which to wait for a response (in seconds). Must be a positive integer.	
quit_on_first	Stop listening for responses at first response.	<i>true</i> false

# <u>discoveries</u>:

Note: this field is a list. Each item configures one discovery method. Shown are the item's fields.

Field name	Description	Example values
type	One of "icmp", "syn".	<b></b>
count	Number of requests to send.  If "flood" is enabled, it represents the number of responses to receive before returning.  Only available for type "icmp".	<u> </u>
timeout	Maximum amount of time to wait for a response (in seconds). Must be a positive integer.  A higher value in this field represent a more reliable check, but also a slower one.	1 10
flood	Enable/disable flood ping mode. Only available for type "icmp".	<i>true</i> false

	I OILS to Check, Made be of String type,	"22" "80"
enabled	Enable, disable discovery inculou.	<i>true</i> false