NAME
    esets_gwia – ESETS GroupWise Internet Agent contentfilter module.

SYNOPSIS
    esets_gwia

DESCRIPTION
    The **esets_gwia** is an agent for Novell GroupWise Internet Agent, which supports only scanning of incom-
    ing internet email messages. It scans directory **gwia_smtphome** in loop and after scanning, files are moved
    to directory **gwia_dhome**.

SIGNALS AND DAEMON PROCESS STRUCTURE
    In order to start **esets_gwia**, the agent manager process must be enabled using parameter **agent_enabled** in
    section [gwia] of the main ESETS configuration file. The manager process is responsible for the agent ini-
    tialization and also for the maintenance of **num_proc** processes each running pool of **num_thrd**
    client/server sessions servicing threads. This version of ESETS implements 1 vs N threads per sessions
    model with asynchronous I/O operations, i.e. each thread is able to maintain multiple sessions (resp. multi-
    ple opened client/server connections) at a time. Note that each thread performs sessions until termination,
    resp. until hard termination of the agent processes.

    TERM This signal causes termination of the agent processes, i.e. after **esets_gwia** manager process
            obtained this signal it terminates all daughter threads and processes as soon as possible and termi-
            nates.

    USR1 This signal causes so called hard termination of the agent processes, i.e. after **esets_gwia** manager
            process obtained this signal it terminates immediately all daughter threads and processes and ter-
            minates.

CONFIGURATION FILE OPTIONS
    The main ESETS configuration mechanism is assumed to be that using ESETS main configuration file.
    Note that most principles of this mechanism are described in the esets.cfg(5) manual page while this section
    contains only additional information related with the list of configuration file options valid for this particu-
    lar module. Therefore we recommend user to become familiar with the above mentioned documentation
    prior reading this section.

  ESETS MODULE PRIVATE OPTIONS
    agent_enabled = *yes/no*

            type: bool

            default: no

            Enables/disables operation of **esets_gwia** daemon manager process.

    num_thrd = *value*

            type: integer

            default: *value* = 2

            Defines number of **esets_gwia** daemon threads.

    gwia_smtphome = *directory*

            type: string

            default: no default

            Defines root directory for scanning by **esets_gwia** daemon.

gwia_dhome = *directory*

type: string

default: no default

Defines root directory for moving scanned files by **esets_gwia** daemon. When path directories does not exit, then create it automatically.
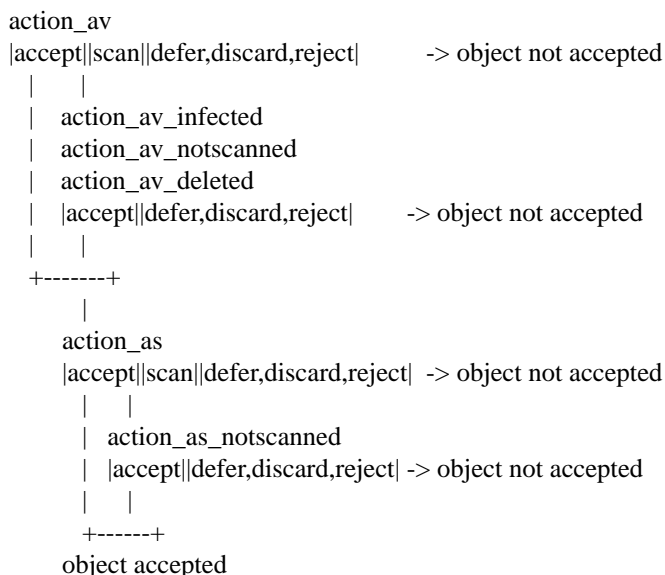
ESETS MODULE COMMON OPTIONS

To get detailed description of ESETS module common options, please refer to the section **ESETS MODULE COMMON OPTIONS** of the **esets.cfg(5)** manual page.

ESETS SCANNER COMMON OPTIONS

To get detailed description of ESETS scanner common options, please refer to the section **ESETS SCANNER COMMON OPTIONS** of the **esets.cfg(5)** manual page.

HANDLE OBJECT POLICY

The Handle Object Policy (see figure below) is a mechanism that provides handling of the scanned e-mail messages depending on their scanning status. The mechanism implemented in this module is based on so called action configuration options **action_av**, **action_av_infected**, **action_av_notscanned**, **action_av_deleted**, **action_as**, **action_as_spam** and **action_as_notscanned**. To get description of these configuration options, see esets.cfg(5) manual page.

```
 action_av
|accept||scan||defer,discard,reject|          -> object not accepted
   |     |
   |   action_av_infected
   |   action_av_notscanned
   |   action_av_deleted
   |   |accept||defer,discard,reject|          -> object not accepted
   |     |
  +-------+
        |
      action_as
      |accept||scan||defer,discard,reject|  -> object not accepted
         |    |
         |  action_as_notscanned
         | |accept||defer,discard,reject| -> object not accepted
         |    |
        +------+
      object accepted
```

Every e-mail message processed by this module is first handled with respect to the setting of the configuration option **action_av**. Once the option is set to 'accept' (resp. 'defer', 'discard', 'reject') the object is accepted (resp. deferred, discarded, rejected). If the option is set to 'scan' the object is scanned (resp. also cleaned if requested by configuration option **av_clean_mode**) for virus infiltrations and set of action configuration options **action_av_infected**, **action_av_notscanned** and **action_av_deleted** is taken into account to evaluate further handling of the object. If action 'accept' has been taken as a result of the three above action options the object processed shall be scanned for spam.

Note that the e-mail message is scanned for spam only in case the configuration option **action_as** is set to 'scan'. In this case the action configuration options **action_as_spam** and **action_as_notscanned** is taken into account. If action 'accept' (resp. 'defer', 'discard', 'reject') has been taken as a result of the two above action options the object is accepted for further delivery (resp. the object is deferred, discarded or rejected).

You have probably noticed that each of the action configuration options discussed above accepts a variety of the values whose list can be found in esets.cfg(5) manual page. As also stated there the values listed are handled individually by every ESETS agent module. Thus to be consistent in the following we review the

meaning of the values for this ESETS agent module.

accept   Accept object on this level of Handle Object Policy, i.e. access to the object is allowed by the particular action configuration option.

scan   Scan object for virus infiltrations (resp. for spam) and clean infected objects if requested by configuration option **av_clean_mode**.

defer   Return temporary failure to sender.

discard
               Accept object from sender, but drop it afterward.

reject   Return permanent error to sender.

IMPORTANT 1: Note that 'reject' and 'defer' behaves like 'discard'. When action is changed to 'discard', the warning message will be written to logs. IMPORTANT 2: Note that 'discard' action can lead to accumulation of the e-mail messages on the server's disc until resources exhausted. Thus in the common it is not recommended to use of them. The action values are implemented by the module for special development purpose only.

LOGGING

Logging functionality of the ESETS agent modules has been developed to fine tune or to troubleshoot the agent module performance. Thus all the ESETS agent modules support only logging using syslogd daemon which logs system messages on *nix systems. To get more information on this topic please, refer to manual pages syslog(2), syslog.conf(5) and syslogd(8).

Regarding ESETS agent modules, this functionality can be invoked by setting ESETS module common configuration option *syslog_facility* to value other than **none**. To get description of the introduced ESETS module common configuration options please, refer to esets.cfg(5) manual page.

Once the syslog logging enabled, the ESETS agent module messages are logged with one of the following syslog priorities:

LOG_ERR
               Error messages concerned with the ESETS agent module performance are logged with this priority. Message logged with this priority usually means that error occurred during the ESETS agent module running and thus the module could not accomplish its operation or even the module process exited.

LOG_WARNING
               Warning messages concerned with the ESETS agent module performance are logged or 'summary' messages concerned with action other than 'accept' taken as a consequence of object scanning status are logged with this priority.

LOG_NOTICE
               The 'summary' messages concerned with action taken as a consequence of object scanning status are logged with this priority.

LOG_INFO
               The common tasks are logged with this priority.

LOG_DEBUG
               Debug information concerned with the ESETS agent module performance is logged with this priority.

COMMAND LINE OPTIONS

This section contains list of command line options valid for this module.

Note that present version of ESETS implements in general three types of command line options parameters:

Integer parameters accept integer values, e.g.:

               --integer-parameter 26

For integer parameter it is also possible to append unit K (1K = 1024), M (1M=1024*1024), G (1=1024*1024*1024), e.g.:

        --integer-parameter 4K

Boolean (logical) parameters do not accept any arguments. Their appearance in the command line automatically signal enabling of an appropriate functionality related with the parameter, e.g.:

        --bool-parameter

Thus in order to provide negation of an appropriate logical parameter prescribe this parameter with --no, e.g.:

        --no-bool-parameter

String parameters accept string values. They can be put into quotation marks, e.g.:

        --string-parameter "string value"

Besides options on the command line, there are also commands. All ESETS programs accept at least these commands for displaying the version number and a simple help screen.

-v, --version

        Print version information to stdout and exit.

-h, --help

        Print help screen to stdout and exit.

REPORTING BUGS

In order to report bugs, please visit http://www.eset.com/support <URL:http://www.eset.com/support> or use directly the support form at http://www.eset.eu/support/form <URL:http://www.eset.eu/support/form>.

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SEE ALSO

esets_cgp(1) esets_cli(1) esets_dac(1) esets_ftp(1) esets_gwia(1) esets_http(1) esets_icap(1) esets_imap(1) esets_mda(1) esets_mird(1) libesets_pac.so(1) esets_pipe(1) esets_pop3(1) esets_smfi(1) esets_smtp(1) esets_ssfi.so(1) esets_wwwi(1) esets_zmfi(1) esets(5) esets.cfg(5) esets_daemon(8) esets_inst(8) esets_lic(8) esets_quar(8) esets_scan(8) esets_set(8) esets_update(8) eset_efs_userguide.pdf eset_egs_userguide.pdf eset_ems_userguide.pdf