Tntnet configuration-reference

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BufferSize

Syntax

BufferSize bytes

Description

Specifies the number of bytes sent in a single system-call. This does not limit anything in application-level. It does not affect e.g. savepoints or exception-handling. Component-output is collected completely and then passed in chunks of *BufferSize* bytes to the operating system.

The default value for this is 16384.

Example

BufferSize 32768

CompLifetime

Syntax

CompLifetime seconds

Description

Components are instatiated when needed and reused. After the time specified here the instances are deleted. This defaults to 600 seconds.

Example

CompLifetime 120

CompPath

Syntax

CompPath directory

Description

CompPath specifies, where tntnet should search for webapplications. Thtnet searches first in the current directory and then in each directory, you specify here, until a library is found. You can repeat the directive as many times as desired to add more entries. If it is not found, the next MapUrl-entry is tried.

Example

CompPath /usr/local/lib/tntnet
CompPath /usr/local/share/tntnet

Chroot

Syntax

Chroot directory

Description

Does a chroot (2) -system call on startup, which locks the process into the directory at system-

level.

Example

Chroot /var/tntnet

Daemon

Syntax

Daemon 0 | 1

Description

If this flag is set to 1, Thinet forks at startup and terminates the parent-process on successful initialization.

Example

Daemon 1

Dir

Syntax

Dir directory

Description

Changes the current working directory of the process on startup.

Example

Dir /var/tntnet

EnableCompression

Syntax

EnableCompression yes/no

Description

Specifies, if Thtnet should use gzip-compression at http-level. By default Thtnet use compression.

A http-client like a web browser can send a header "Accept-Encoding", to tell Tntnet, that it would accept compressed data. Tntnet then can decide, if it use compression. When the body is complete, Tntnet tries to compress the body. If the data can be compressed by more than 10%, Tntnet sends this compressed data. With this flag, this feature can be turned off.

Compression slows down processing but reduces the network-load. Normally the size of html-pages can be compressed by about 70%, while Tntnet slows down by up to 30%.

Example

EnableCompression no

Group

Syntax

Group unix-group

Description

Changes the group under which tntnet answers requests.

Example

Group tntnet-group

include

Syntax

include filemask

Description

Reads additional settings from the specified files. *filemask* might contain glob-characters, so that multiple files might be read. The order is not specified.

Example

include /etc/tntnet.d/*.conf

KeepAliveTimeout

Syntax

KeepAliveTimeout milliseconds

Description

Sets the timeout for keep-alive requests. Thin tries to do keep-alive-requests wherever possible. This has the effect, that tutnet can receive multiple requests within a single tcp-connection. The connection times out after *KeepAliveTimeout* milliseconds. The timeout defaults to 15000ms.

Example

KeepAliveTimeout 300000 sets the keep-alive-timeout to 5 minutes.

KeepAliveMax

Syntax

KeepAliveMax number

Description

Sets the maximum number of request per tcp-connection. This defaults to 100.

Example

KeepAliveMax 10

Listen

Syntax

Listen ip [port]

Description

Specifies, on which address the waits for connections. There can be more than one Listen-directives, in which case the waits on every address. If there is no Listen-directive the listens on 0.0.0.0 port 80.

ip might also be a hostname.

Example

Listen 127.0.0.1 8000 Listens on localhost on port 8000.

ListenRetry

Syntax

ListenRetry number

Description

On startup Thinet calls listen on the specified port. When the systemcall returns with an error, Thinet tries again and fails after the specified number of attempts. The default number is 5.

Example

ListenRetry 10 Retries 10 times

ListenBacklog

Syntax

ListenBacklog number

Description

The system-call listen needs a parameter backlog, which specifies, how many pending connections the operating-system should queue before it starts to ignore new request. The value is configurable here.

Example

ListenBacklog 64 Changes the backlog-queue to 64.

Load

Syntax

Load webapplication

Description

Load specifies, which webapplications are preloaded on startup. Normally webapplications are loaded as needed. The disadvantage is, that there is no way to check on startup, if a application is loadable at all. With this directive startup fails, if the application is not loadable.

Example

Load myapp

MapUrl

Syntax

```
MapUrl url component-identifier [ path-info { additional-arguments } ]
```

Description

Tells tntnet, which component should be called, when it receives a http-request. *url* is a regular expression, which is tried against the request-url. If it matches, the *component-identifier* is evaluated. *component-idetifier* may contain backreferences to the url. By default the url is passed as path-info to the component, but this can be changed with a third parameter. Additional parameters can be passed to the component and accessed through tnt::httpRequest::getArgs(). This variable can occur more than once and they are tried in the order they are found in the configurationfile, until the regular expression matches and the component does not return tnt::DECLINED. If no MapUrl-directive is found, http-error 404 (not found) is sent.

Example

```
# maps html-pages to components in myapp.so; e.g. /foo.html calls foo@myapp MapUrl /([^/.]+)\.html $1@myapp # maps jpeg-urls to myapp; e.g. /foo.jpeg calls foo_jpg@myapp MapUrl /([^/.]+)\.jpeg $1_jpg@myapp # maps /foo/bar.html to bar@foo MapUrl /([^/.]+)/([^/.]\.html $2@$1
```

MapUrlMapCache

Syntax

MapUrlMapCache size

Description

As described in MapUrl urls are mapped to components with regular expressions. This is a quite expensive operation, while the number of different urls used in a typical web application is small. Therefore Tntnet has a simple cache, which stores mappings to prevent the need to process the same regular expression multiple times. The size of this cache is limited. After the size is exceeded the cache is simply cleared. This clearing is logged with the message "clear url-map-cache". If you have a application whit many different urls and you often see this warning-message, you might want to increase the cache.

The default value is 8192.

Example

MapUrlMapCache 32768

MaxRequestSize

Syntax

MaxRequestSize number

Description

This directive limits the size of the request. After *number* Bytes the connection is just closed.

This prevents deniel-of-service-attacks through long requests. Every request is read into memory, so it must fit into it.

Bear in mind, that if you use file-upload-fields a request might be larger than just a few bytes.

The value defaults to 0, which means, that there is no limit at all.

Example

MaxRequestSize 65536

MinThreads

Syntax

MinThreads number

Description

The tuses a dynamic pool of worker-threads, which wait for incoming requests. *MinThreads* specifies, how many worker threads there have to be. This defaults to 5.

Example

MinThreads 10

MinCompressSize

Syntax

MinCompressSize number

Description

Http-compression for replies smaller than this are not compressed at all. The default value for this is 300.

Example

MinCompressSize 1024

MaxThreads

Syntax

MaxThreads number

Description

The tuses a dynamic pool of worker-threads, which wait for incoming requests. *MaxThreads* limits the number of threads. The default is 10.

Example

MaxThreads 20

NoCloseStdout

Syntax

NoCloseStdout 0 | 1

Description

If *Daemon* is set to 1, tntnet closes standard-in-, standard-out- and standard-error-channels, unless *NoCloseStdout* is set to 1.

Example

NoCloseStdout 1

NoMonitor

Syntax

NoMonitor 0 | 1

Description

On startup, if *Daemon* is set to 1, tntnet does a second fork. The parent keeps waiting for the child and the child does the work. If tntnet crashes, what might happen, when a webapplication is buggy, the worker-process is restarted. This can be switched off by setting *NoMonitor* to 0.

Example

NoMonitor 0

PidFile

Syntax

PidFile filename

Description

When run in daemon-mode, tntnet writes the process-id of the monitor-process to *filename*. When the monitor-process is deactivated, the pid of the worker-process is written. This ensures, that sending a sigkill to the the stored process-id stops tntnet.

Example

PidFile /var/run/tntnet.pid

PropertyFile

Syntax

PropertyFile filename

Description

This directive specifies the property-file, where logging is configured. The content of the property-

file is dependend of the underlying logging-library.

Example

PropertyFile /etc/tntnet/tntnet.property

QueueSize

Syntax

QueueSize number

Description

Thin that a request-queue, where new requests wait for service. This sets a maximum size of this queue, after wich new requests are not accepted. The default value is 100.

Example

QueueSize 50

SessionTimeouot

Syntax

SessionTimeout seconds

Description

This sets the number of seconds without requests after which a session is erased. The default value is 300 seconds.

Example

SessionTimeout 600

SocketReadTimeout

Syntax

SocketReadTimeout milliseconds

Description

A worker-thread waits for some milliseconds on incoming data. If there is no data, the job is put into a queue and another thread waits with poll(2) on incoming data on multiple sockets. The workerthreads are freed and they can respond to other requests quickly. The default value is 200 milliseconds, which is good for normal operation. A value of 0 results in non-blocking read.

If timeout is reached, this does not mean, that the socket is closed.

A small timeout reduces contexts witches on slow connections.

Example

SoecketReadTimeout 0

SocketWriteTimeout

Syntax

SocketWriteTimeout milliseconds

Description

This defines the time, how long the workerthreads wait on write. If the timeout is exceeded, the socket is closed and the browser might not get all data. The default value is 10000 milliseconds.

Example

SocketWriteTimeout 20000

SslListen

Syntax

SslListen ip [port[ssl-certificate-file [ssl-key-file]]]

Description

Specifies, on which ip and port tntnet waits for incoming ssl-connections. Optionally a certificate-and key-file can be passed.

Example

SslListen 192.168.0.1 8443

Waits on the specified address and port on incoming ssl-connections. The server is reachable with https://192.168.0.1:8443/

ThreadStartDelay

Syntax

ThreadStartDelay ms

Description

Example

ThreadStartDelay 1000

User

Syntax

User username

Description

Example

User www-data