NAME

vnstat.conf – vnStat configuration file

SYNOPSIS

/etc/vnstat.conf

DESCRIPTION

vnstat(1), **vnstati**(1) and **vnstatd**(1) all use the same configuration file for configuration related settings. Some of the settings are common for all three programs. The file consists of keyword-argument pairs, one per line. Empty lines and lines starting with '#´ are interpreted as comments and not processed. Arguments may optionally be enclosed in double quotes (") in order to represent arguments containing spaces. Arguments can be padded with spaces or tabulator characters. A hardcoded default value will be used if a keyword can't be found from the configuration file.

The configuration file is divided into three sections based on the usage of each keyword. The first section contains keywords that are considered generic for all commands, the second section is for daemon related keywords and the last section for image output.

COMMON KEYWORDS

BandwidthDetection

Try to automatically detect **MaxBandwidth** value for each monitored interface. Mostly only ethernet interfaces support this feature. **MaxBandwidth** or interface specfic **MaxBW** will be used as fallback value if detection fails. 1 = enabled, 0 = disabled. (vnstat and vnstatd only)

BootVariation

Time in seconds how much the boot time reported by system kernel can variate between updates. Value range: 0..300

CheckDiskSpace

Enable or disable the availability check of at least some free disk space before a database write. 1 = enabled, 0 = disabled.

DatabaseDir

Specifies the directory where interface databases are to be stored. A full path must be given and a leading '/' isn't required.

DayFormat, MonthFormat, TopFormat

Formatting of date in available outputs. Uses the same format as **date**(1). (vnstat and vnstati only)

Interface

Default interface used when no other interface is specified on the command line. (vnstat and vnstati only)

Locale Locale setting to be used for prints. This replaces the LC_ALL environment variable. Set to "-" or leave empty in order to use the system default value. (vnstat and vnstati only)

MaxBandwidth

Maximum bandwidth for all interfaces. If the interface specific traffic exceeds the given value then the data is assumed to be invalid and rejected. Set to 0 in order to disable the feature. Value range: 0..50000 (vnstat and vnstatd only)

MaxBW

Same as MaxBandwidth but can be used for setting individual limits for selected interfaces. The name of the interface is specified directly after the MaxBW keyword without spaces. For example MaxBWeth0 for eth0 and MaxBWppp0 for ppp0. Value range: 0..50000 (vnstat and vnstatd only)

MonthRotate

Day of month that months are expected to change. Usually set to 1 but can be set to alternative values for example for tracking monthly billed traffic where the billing period doesn't start on the first day. Value range: 1..28 (vnstat and vnstatd only)

OutputStyle

Modify the content and style of text outputs. 0 = minimal and narrow output for terminal with limited width, 1 = normal output with bar column visible, 2 = same as 1 except rate is visible in summary and weekly outputs, 3 = rate column is visible in all outputs where it is supported. (vnstat and vnstati only)

QueryMode

Default query mode when no parameters are given. 0 = normal, 1 = days, 2 = months, 3 = top10, 4 = exportdb, 5 = short, 6 = weeks, 7 = hours and 8 = xml. (vnstat only)

RateUnit

Select which unit is used when traffic rate is visible. 0 = bytes, 1 = bits. (vnstat and vnstati only)

RateUnitMode

Select used prefix when traffic rate is visible in bits per second. 0 = IEC binary prefixes (Kibit/s...), 1 = SI decimal prefixes (kbit/s...). (vnstat and vnstati only)

RXCharacter, TXCharacter

Character used for representing the percentual share of received and transmitted traffic in daily output. (vnstat only)

RXHourCharacter, TXHourCharacter

Character used for representing the percentual share of received and transmitted traffic in hourly output. (vnstat only)

Sampletime

Defines how many seconds the −tr option will sample traffic. Value range: 2..600 (vnstat only)

TrafficlessDays

Log days without any traffic to daily list. 1 = enabled, 0 = disabled. (vnstat and vnstatd only)

UnitMode

Select how units are prefixed. This will option changes only the prefix, not how traffic is calculated. 0 = IEC standard prefixes (KiB/MiB/GiB/TiB), 1 = old style binary prefixes (KB/MB/GB/TB). (vnstat and vnstati only)

UseFileLocking

Enable or disable the use of file locking during database access. Disabling file locking may cause database corruption if several processes are trying to write to the file at the same time.

DAEMON RELATED KEYWORDS

BandwidthDetectionInterval

How often in minutes interface specific detection of **MaxBandwidth** is done for detecting possible changes when **BandwidthDetection** is enabled. Can be disabled by setting to 0. Value range: 0..30

CreateDirs

Enable or disable the creation of directories when a configured path doesn't exist. This includes **DatabaseDir** , **LogFile** and **PidFile** directories. The **LogFile** directory will be created only when **UseLogging** has been set to 1. The **PidFile** directory will be created only if the daemon is started as a background process. The daemon process will try to create the directory using permissions of the user used to start the process.

DaemonGroup

Specify the user to which the daemon process will switch during startup. The user can either be the name of the group or a numerical group id. Leave empty to disable the group switch. This option can only be used when the process is started as root.

DaemonUser

Specify the user to which the daemon process will switch during startup. The user can either be the login of the user or a numerical user id. Leave empty to disable the user switch. This option can only be used when the process is started as root.

LogFile

Specify log file path and name to be used if UseLogging is set to 1.

OfflineSaveInterval

How often in minutes cached interface data is saved to file when all monitored interfaces are offline. Value range: **SaveInterval**..60

PidFile Specify pid file path and name to be used.

PollInterval

How often in seconds interfaces are checked for status changes. Value range: 2..60

SaveInterval

How often in minutes cached interface data is saved to file. Value range: (**UpdateInterval** / 60)..60

SaveOnStatusChange

Enable or disable the additional saving to file of cached interface data when the availability of an interface changes, i.e., when an interface goes offline or comes online. 1 = enabled, 0 = disabled.

UpdateFileOwner

Enable or disable the update of file ownership during daemon process startup or during manual creation of new databases. During daemon startup, only database, log and pid files will be modified if the user or group change feature (**DaemonUser** or **DaemonGroup**) is enabled and the files don't match the requested user or group. During manual database creation, this option will cause file ownership to be inherited from the database directory if the directory already exists. This option only has effect when the process is started as root or via sudo.

UpdateInterval
How often in seconds the interface data is updated. Value range: **PollInterval**..300

UseLogging
Enable or disable logging. 0 = disabled, 1 = logfile and 2 = syslog.

IMAGE OUTPUT RELATED KEYWORDS

CBackground
Background color.

CEdge Edge color if visible.

CHeader
Header background color.

CHeaderTitle
Header title text color.

CHeaderDate
Header date text color.

CLine Line color.

CLineL
Lighter version of line color. Set to '-' in order to use a calculated value based on CLine.

CRx Color for received data.

CRxD Darker version of received data color. Set to '-' in order to use a calculated value based on CRx.

CText Common text color.

CTx Color for transmitted data.

CTxD Darker version of transmitted data color. Set to '-' in order to use a calculated value based on CTx.

HeaderFormat
Formatting of date in header. Uses the same format as **date**(1).

HourlyRate
Show hours with rate instead of transfered amount. 1 = enabled, 0 = disabled.

SummaryLayout
Select the used layout of the summary output. 1 = layout introduced in version 1.8 with monthly traffic included, 0 = layout used before version 1.8, doesn't contain monthly traffic and doesn't support average rate.

SummaryRate
Show rate in summary output if available. 1 = enabled, 0 = disabled.

TransparentBg
Set background color as transparent. 1 = enabled, 0 = disabled.

FILES

/etc/vnstat.conf
Config file that will be used unless *$HOME/.vnstatrc* exists or alternative value is given as command line parameter.

RESTRICTIONS

Using long date output formats may cause misalignment in shown columns if the length of the date exceeds the fixed size allocation.

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SEE ALSO

vnstat(1), **vnstati**(1), **vnstatd**(1), **units**(7)