JayWormNET Documentation

Release beta10

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JayWormNET is a lightweight Worms Armageddon WormNET server, which basically is a bundle of specialized HTTP and IRC servers. JayWormNET provided with such features as:

- Multi-channel support
- White and ban-lists
- Native W:A charset support
- Extended customization through scripting

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CHAPTER 1

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Building JayWormNET

To build JayWormNET in automated way, you need JDK 7 and Apache Ant.

JayWormNET uses nProperty library to parse the main configuration file, so you need to download it first and put it into 'lib' directory. You can get it here.

Then, get into JayWormNET directory, and run ant. On Windows you can use 'Shift + Right Click' to quickly open cmd window by selecting it from context menu. Executable jar will be created in the 'build' folder. Before building, you may want to change JayWormNET's default configuration files in 'config' directory.

Embedding configuration files

Usually, JayWormNET stores it's configuration files inside it's own .jar package. Any of them may be overridden by an external copy, placed to the current working directory. It's a good practice (for convenient deploying) to pre-configure the server before the build right in the *config* directory, so once your .jar gets built, it already will be configured and ready for use.

See Configuration for further instructions.

Running

JayWormNET only requires Java SE 7.

With default settings (and HTTP port value unchanged on 80) on *nix* hosts it should be executed with root privileges. By default, it shows up GUI (when available) to let it be visible on graphical environment after you run it by double-click in file manager — GUI can be forced to be disabled by configuration file of by *-nogui* command-line flag.

Note about logging

Logging to file is disabled by default and you may set loggingEnabled = true in wnet.cfg file to enable it back. Log file (wn.log) will be written in the current working directory (when using desktop environment, it's usually the same folder where jar is placed).

Configuration

Configuring JayWormNET isn't a complicated task (until you ain't going deeper to the scripting). There is a few configuration files, most of them have well-commented templates presented in the jar package or in the *config* directory. **No one of them is necessary**, as the default file set (mostly) represents JayWormNET's hard-coded defaults.

The main configuration file

wnet.cfg

Example:

```
IRCPort = 6667
commandsEnabled = true
serverHost = example.com
```

By the way, this file is the only one which name can't be changed (or even the file be moved).

This file is a set of variables with the simplest syntax suchVariable = true per line. Any unrecognized stuff (unknown variables, empty lines, symbols, etc.) is simply ignored, so you can write comments in this file absolutely free. The only exception for commenting goes for *after-line-comments*, which is not allowed and will cause your value to not be parsed properly.

Strings should be written as is, without " or '.

There are any possible variables listed below.

Generic variables

Type	Variable	Example / Defaults	Description / Notes
int	HTTPPort	80	
int	IRCPort	6667	
String	serverHost	localhost	Server host name, must be changed to your real server
			address
int	gameLifeTime	240	How long a hosted game should be kept in the list (in
			seconds)

IRC-specific settings

Type	Variable	Example / Defaults	Description / Notes
boolear	n useStealthIP	true	Hide real user's IP by replacing it with
			stealthIP
String	stealthIP	no.address.	
		for.you	
String	networkName		
String	charset	native	IRC charset (native, utf-8, etc.)
boolear	useIRCPassword	true	
String	IRCPassword	ELSILRACLIHP	Default Worms Armageddon IRC password
String	IRCOperPassword	kenny	Operator password, don't forget to change it!
int	specialMessagesPermiss	idnLevel	Who is able to use <i>special green</i> messages (0
			nobody, 1, opers, 2 any)

IRC pinging

Pings avoid non-responding or unexpectedly disconnected users stay on server by dropping them when the ping response timeout is reached.

Type	Variable	Example / Defaults	Description / Notes
boolean	pingsEnabled	true	
int	pingInterval	60	(in seconds)
int	pingTimeout	60	(in seconds)

IRC login message settings

This section describes a configuration of messages, which client receives after successful login.

Туре	Variable	Example / Defaults	Description / Notes	
int	showIntro	2	IRC login messages settings, can be 0 (nothing), 1 (short)	
			or 2 (full)	
boolean	showCreated	true	Show server's creation date in IRC login	
boolean	n showPlayersCount true		Show users count on IRC login	
boolean	showChannelsCour	ıttrue	Show channels count on IRC login	
boolean	showOps	false	Show operators count on IRC login	
boolean	showCapabilities	true	Send server capabilities on IRC login	
String	capPrefix	(ov)@+	Capabilities settings, not recommended to touch	
String	capChanTypes	#	Capabilities settings, not recommended to touch	
String	capChanModes	b,k,l,	Capabilities settings, not recommended to touch	
		imnpst		

IRC anti-flood

Туре	Variable	Example / Defaults	Description / Notes
boolean	antiFloodEnabled	true	Avoid flooders by kicking them out
int	floodGate	1000	Flood tolerance
int	floodMaxLevel	4	Flood tolerance

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Message Of The Day settings

Type	Variable	Example / Defaults	Description / Notes
boolean	ircShowMOTD	true	Show IRC MOTD
boolean	httpShowMOTD	true	Show HTTP MOTD
String	ircMOTDFileName	motd.txt	
String	httpMOTDFileName	motd.html	

HTTP fallback settings

See Fallback page

Type	Variable	Example /	Description / Notes
		Defaults	
boolean	httpFallbackEnabled	false	Enable custom fallback page
String	httpFallbackPage	fallback.	
		html	
boolean	httpAlwaysReloadFallbackPag	efalse	Re-read the fallback page on every
			request

Logging settings

Type	Variable	Example / Defaults	Description / Notes
boolean	loggingEnabled	false	Enable logging to file
String	loggingLevel	FINER	See Java logging levels
String	logFile	wn.log	
boolean	announceGameHosting	false	Announce game hosting to the IRC channel
boolean	showOperatorsActions	true	Show operator's actions to other operators

Lists

Type	Variable	Example / Defaults	Description / Notes
boolean	enableBanList	false	
boolean	enableWhiteList	false	
String	banListFileName	banlist.csv	
String	whiteListFileName	whitelist.csv	
String	channelsFileName	channels.lst	Path to IRC channels list
String	commandsListFileName	commands.lst	

Scripts configuration

Type	Variable	Example /	Description / Notes
		Defaults	
boolean	masterScriptEnabled	false	
String	masterScriptFileName	master.js	
String	scriptedCommandsPrefix	commands/	Path to scripted additional commands
boolean	invocationWarningsEnab	l∉dlse	Log master script invocation failures, useful for
			debugging

GUI settings

Туре	Variable	Example / Defaults	Description / Notes
boolean	guiEnabled	true	
String	guiBackgroundColor	default	
String	guiForegroundColor	default	

In-chat commands

Type	Variable	Example /	Description / Notes
		Defaults	
boolean	commandsEnabled	false	Enable additional commands, affects scripted
			commands too (when false)
boolean	scriptedCommandsEna	ıbflæbse	
boolean	showCommandsInChat	false	WARNING: using of ! oper command will result in
			password leak!
boolean	swallowAllCommands	false	Overrides showCommandsInChat

Various stuff

Type	Variable	Example / Defaults	Description / Notes
boolean	forceHosterIP	false	When a game hosted, it's address will be replaced
			with hoster's real IP
boolean	enableSabotageProtect	iɗalse	Allows to close a game only from it's hoster IP
boolean	enableWheatSnooperSch	emæEėx	Fix for old versions of The Wheat Snooper, which
			were unable to join in
boolean	enableURLSpellCheck	false	

Experimental / undocumented stuff

Use with care!

Туре	Variable	Example / Defaults
int	HTTPFailureSleepTime	750
int	IRCFailureSleepTime	2500
boolean	IRCSkipBytesWhenAvailable	false
boolean	dropIRCUserOnOverflow	false
int	IRCBufferSize	262144

Ban-list and white-list

banlist.csv
whitelist.csv

Example:

```
Nickname, *
*, 192.168.1.10
mr_troll, 192.168.1.5 127.0.0.1
```

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These lists are used for IRC server access restrictions. Ban-list prevents the listed clients to join, and vice-versa, white-list prevents **non-listed** clients to join (of course, when enabled). Both lists may be enabled and combined in use. Remember that ban-list has higher priority than the white-list.

Both files have the CSV-table (comma-separated values) format. There are two columns: *Nickname* and *Address*, and they are describing for whom the restrictions will be applied. The *Nickname* field can contain only one nickname or the * wildcard (affecting any nickname). The *Address* field can contain single IP, list of addresses separated by space or the * wildcard.

Channels list

channels.lst

Example:

```
Robots::Aperture Science
AnythingGoes:Pf,Be:Open channel, blah blah.
WormnetCrew:Pf,Be:
ProfessionalPootis::03 Ranked channel
```

This is the list of statically pre-defined IRC channels, presented as a table with three columns, separated by colons:

- Channel name (without # or something)
- Game scheme (optional, defaulting to Pf, Be when is not present)
- Channel description (optional)

You may set a channel icon by adding a two-digit number with space to beginning of channel's description: HelpChannel::05 Description

This file cannot be reloaded on-the-fly.

In-chat commands white-list

commands.lst

Example:

kick oper reload

This is a list of allowed for invocation IRC in-chat commands. It affects both the scripted and embedded commands. Non-white-listed commands will be "non-existent" even it is present. See *In-chat commands*.

Message of the Day

There are two MOTD files: *txt* is for IRC and *html* is the page being displayed at the right bottom in Worms Armageddon >= 3.7.0.0 on the channel selection menu.

motd.txt

Example:

```
I am the MOTD message!
```

motd.html

Example:

Fallback page

fallback.html

Fallback page is what HTTP client will receive, when trying to visit any non-WormNET (or simply non-existent) page (if enabled in configuration).

In-chat commands

JayWormNET's IRC server supports in-chat commands (a.k.a. *Additional commands*), started from "!", for example, !foo bar. The commands should be enabled in the configuration file (see *The main configuration file*), otherwise you will just say it to chat; also don't forget to white-list required commands if it isn't done yet: *In-chat commands white-list*.

Custom in-chat commands may be used to expand JayWormNET's functionality. There are two kinds of them: *embedded* and *scripted*. First written in Java and comes as plugins (Java classes), which can be embedded in distributive jar or injected via modifying of Java's Classpath variable. The second kind of commands are written in JavaScript and can be updated and re-evaluated on-the-fly.

Standard set of embedded commands

JayWormNET comes with a set of standard in-chat commands.

oper

Usage:

```
!oper <IRC operator password> [nickname]
```

Grants you with operator's privileges, or that guy, which nickname you optionally specified. Repeating invocation of oper revokes the privileges.

kick

Usage:

```
!kick <nickname>
```

Removes client from server. Requires operator's privileges.

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reload

Usage:

!reload

Used to (mostly) reload server's configuration "on-the-fly". Requires operator's privileges.

say

Usage:

!say <some text>

Prints cool green message to the channel. Usage of this command can be restricted through changing of specialMessagesPermissionLevel variable in the configuration.