DSHUB.
THE MANUAL.

1. Introduction

Welcome to DSHub world. What are you reading now is my idea of a manual. Hope that it will answer most of your questions and solve the most known problems that people have experienced while using it.

DSHub is a new hubsoft for Direct Connect Network. It uses the ADC protocol created by Jacek Sieka and the DC DEV. ADC is the future of DC network and information about it can be found on **http://adc.sf.net/ADC.html** .

The official ADC wiki can be found on http://adc.sf.net/wiki

Also, the http://www.adcportal.com is a nice place for adc users and developers.

Note that since ADC is released with 1.0 and most ADC clients are 0.12 or 0.14 compatible, and DSHub being ADC compatible starting with this version, older clients can't use passwords and will get some other odd behaviour as well (keys missing and so on).

DSHub website is http://www.death-squad.ro/dshub

During the 10 months I worked on this project, I hit myself with a lot of human-based problems, and tried to figure out what people think about it. I've met people that installed DSHub with no word from me, and in a matter of minutes. I've also met people that had no idea what a shell is, or how to install the Java interpreter. (luckily, DSHub has a GUI now so that people are not forced in using the shell)

DSHub is free and with no charge for everybody. I developed it in the idea of Open Source and for helping other people. Because I care.

That doesn't mean though that I have much responsibility about it. I can assure you that the soft is harmless, but still, I must state that it's your own responsibility, and if you choose to use it, you agree to the terms of the GNU General Public License (the GNU GPL) under which the soft is released. Please refer to this license in the file license.txt included in package or at the end of this manual.
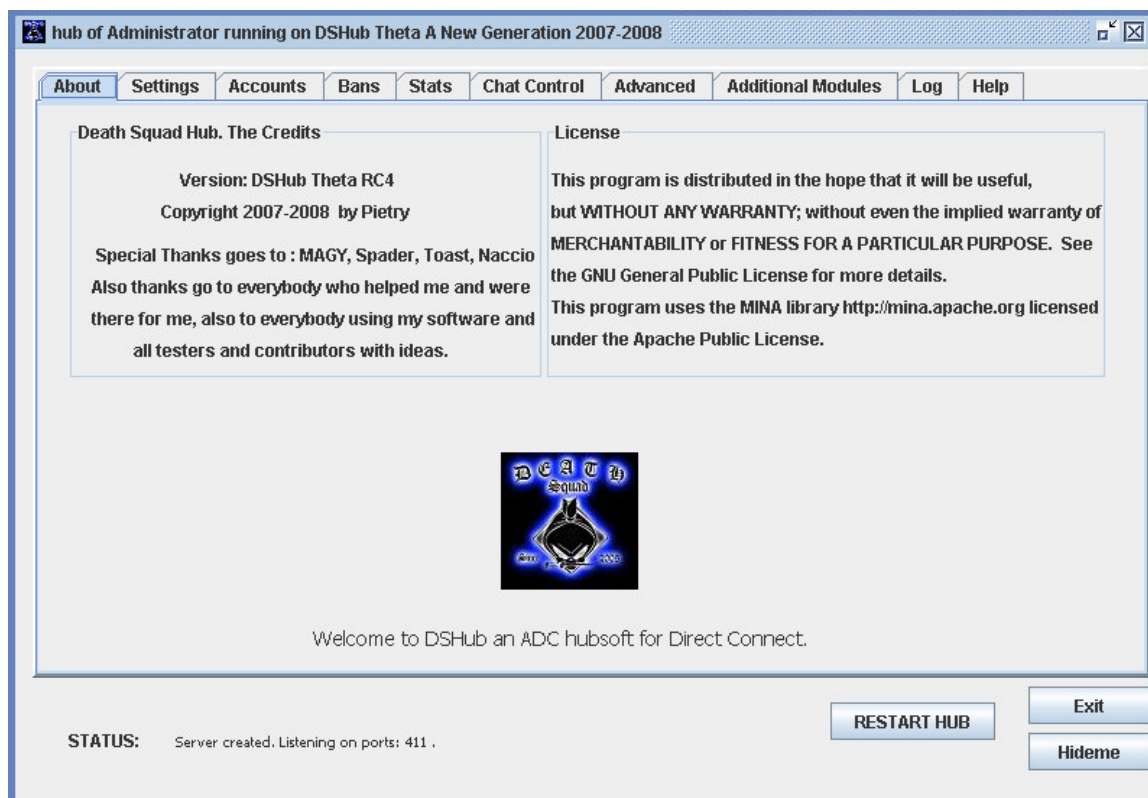
I would like to thank people who contributed : Magy, Toast, Spader, Naccio.

1.1. Supported Extensions.

From the official extensions, DSHub supports the TIGR extension for Tiger Tree Hashes and the PING extension for pingers.

2. What is ADC ?

   ADC is the successor for the old NMDC protocol
(originally created by Jon Hess in the Direct Connect client).

   ADC has a number of improvements and new ideas.
Among them we can remember:

   - Extensibility. Unlike the old NMDC, the new ADC can be
virtually improved at any time by just adding extensions to
it (of course, they will be used only if both parties accept
it), even the main ADC compatibility is advertised as BASE
on connections. Anyone can write a draft for a new
extension, make it public and try convincing other
developers to add it to their own software.

   - Scalability. This feature of ADC protocol makes possible
to scale the messages send by clients in small pieces so that
the information about them is more accurate and up-to-
date. Only information that changed is being sent, so that
bandwidth and load can be saved.

   - Security. ADC uses unique IDs for every client that allow
to globally identify any client. And also this ID cannot be
used by other parties since it's created using another
PrivateID which is secret, and they work only in pairs.
Advantages are : the "clone" problem is being eliminated
since a hub cannot allow two clients with same ID,
registrations are much more safe based on ID , since it
cannot be faked. Also passwords are sent encrypted; this
feature eliminates the possibility of package sniffing.

   - Safer downloads using hashes. Hashes are mandatory
for ADC downloading so the problem of corrupted downloads
is eliminated. The hashed used at the moment is TTH (Tiger
Tree hash)

   ADC extensions bring up the Direct Connect out of the
"dark ages" of file-sharing. That is possible because:

- REGX is ADC extension that uses Regular Expressions for searches. This improves a lot the searching capabilities and the accuracy of the results.

- ZLIB is an ADC extension that allows downloading and connecting via a GZip stream, which is compressed stream of data, enabling a much faster download for a not so big bandwidth.

- ADCS is the ADC Secure that uses the SSL (Secure Socket Layer). Logins will be even more safe because the use of certificates, and downloads are encrypted so that nobody can intercept them.

For the future, we can say that a new type of downloading will be implemented , chunk-base , torrent-like.

The SET (Similarity Enhanced Transfer) it's a new technology that finds alternates for downloading based not on equality but on similarity, for each piece of chunk the file is split into. More info can be found on **http://www.physorg.com/news95436100.html**.

Some ADC reminders:

- ADC uses the adc:// protocol specifier so you MUST use it in your connecting client (unless your client has protocol auto-detect capabilities).

- ADC does not have a default port so the port MUST be specified even if its 411 (NMDC default port)

- NMDC hublists do NOT support ADC so I found out 2 hublists for you :
www.adchublist.com
www.hubtracker.com
Supporting the ADC protocol.

- Direct connect clients do not support ADC unless they are ADC compatible (mentioned in their features)

- A list of ADC clients (among with most known mods of them):
DC++ >0.691, icedc 1.01a, zion >2.04 apexdc >0.3.0, strongdc > 2.01 , zk++ > 0.7, BCDC >0.69, FMDC, Elise or any later version.

3. Getting DSHub running

DSHub uses the Java programming language developed by Sun Microsystems Inc. More info about it can be found on http://java.sun.com/ .
This gives DSHub the advantage of being multi platform. What multi platform means? Exactly what is being said… it works properly on multiple platforms without any change. The most common platforms that I see usage are Windows and Linux. Wondering how this is possible? It's very easy, the Java Virtual Machine makes it possible. You must install a Java Virtual Machine on your system (this one is system dependant) and you can run any Java program, so you can run DSHub too.

3.1. Windows Installation

Installation on Windows shouldn't be so difficult, even for a beginner user.

3.1.1. Using the Installer.
Go to DSHub sourceforge page, that is
www.sf.net/projects/dshub
Since the Theta RC3 version you can find a package similar to DSHub-Windows-Installer-Theta-RC3.exe, which is a Windows Installer very-easy to use. Also starting with this version, DSHub provides an executable that can also find out if you got the proper java runtime environment running. The installer also places shortcuts that are easy to use for your new hub. You can select whether to install plugins or not too.

3.1.2. Using the independent binary package

Go to DSHub sourceforge page, that is www.sf.net/projects/dshub and download the latest binary files (binary files are usually marked with "bin" suffix and source files are marked with "src" suffix). The package may be called something like : dshub-zeta-rc5-bin.zip , this

means the package is DSHub, version Zeta, release candidate 5 for this version , and that it's a binary package. Another example could be dshub-omicron-rc21-src.zip , again, this is the DSHub version Omicron , release candidate 21, the source code.

Normally an end-user needs the binary files (the one you can execute) and not the source code (could be used by the ones who might like to improve DSHub or have a look on who I created things).

So, when you are trying to install DSHub, you need the binary package.

Another recommendation, when more versions are available, try getting the latest, because it always has something better then an old one, ok ?

Ok, now that we got that straight, we need to focus on the installation process.

You got the JRE installed? Skip this part then.

Go to http://java.sun.com or any other site that allows you to download the JRE (that is, the Java Runtime Environment).

DSHub can run with a JRE version 1.6.0.0 the least. So , if you get 1.7 or any latest, it should be ok.

Once you get the JRE installed on your system (I presume you picked the right one and the right OS), your system may have changed to reflect this.

Use any archive manager to unzip the DSHub package to any folder at your choice. Go in there using your Windows Explorer. If you see the file DSHub.jar in there with a coffee cup icon, it's super (if you got extensions not to be shown, you will see just a DSHub file with coffee cup icon , but in fact it still is a .jar file). Go ahead and double click it and you got the DSHub graphical interface show up, that's all there is in the installation.

There is the case when windows does not register your jar files with double clicking. This case is a bit tricky, and requires some shell skills from you (remember, that old DOS box ?) .

Get a command prompt running (you can do it by going to Start/Run/cmd). You will see a nice prompter with your home folder shown. Now, change the directory to the one you unzipped DSHub. Change directory is the DOS command cd, example:

D:\Documents and Settings\Administrator>cd DSHub
D:\Documents and Settings\Administrator\DSHub>

If you got on another folder, you can always do
cd \dshub
This gets you to the root of the drive and in in DSHub folder. Remember you can use tab for autocomplete folder and file names and X: to change drive, where X is the drive letter, and that names containing spaces should be quoted.

After you got into the DSHub folder, try java –jar DSHub.jar

> java -jar DSHub.jar
* Initializing DSHub Zeta ...*
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
GUI launched...
Done.
Parsing to Command Mode.Help for info,quit to quit.
Server created. Listening on port 411.
Start Time:Sun Jul 22 19:58:07 EEST 2007

>

This is what console shows up. The GUI should appear as well. If you want to use GUI only you can run with javaw instead of java.

Possible problems :

Could not open jar file : This is because you did not cd to the right folder, or the jar file is corrupt or nonexistent. Check again.

Exception in thread… : You are not using the right JRE version, 1.6 is the least you can use

'java' is not recognized…: Either you don't have java installed or its not in your PATH system variable. To correct it, you need to get the path to java (usually its "c:\Program Files\java\jre1.6\bin" but might vary) by looking into your

computer, and add it to the PATH variable (right click my computer, go to properties, advanced, system variables, and edit the PATH by adding the path to java).

Here you go, your hub is running ☺

You can go to configure chapter, where you can configure via GUI or via console at DSHub prompter.

3.2. Linux Installation

Installation on Linux shouldn't be so difficult, even for a beginner user. Go to DSHub sourceforge page, that is www.sf.net/projects/dshub and download the latest binary files (binary files are usually marked with "bin" suffix and source files are marked with "src" suffix). The package may be called something like : dshub-zeta-rc5-bin.zip , this means the package is DSHub, version Zeta, release candidate 5 for this version , and that it's a binary package. Another example could be dshub-omicron-rc21-src.zip , again, this is the DSHub version Omicron , release candidate 21, the source code.

Normally an end-user needs the binary files (the one you can execute) and not the source code (could be used by the ones who might like to improve DSHub or have a look on who I created things).

So, when you are trying to install DSHub, you need the binary package.

Another recommendation, when more versions are available, try getting the latest, because it always has something better then an old one, ok ?

Ok, now that we got that straight, we need to focus on the installation process.

You got the JRE installed? Skip this part then.

If you got a distro that has Java Runtime Environment , this could be good or not. Most distros come with the GIJ , the so called gnu-java. But that comes with version 1.4.2 which is not good for DSHub. 1.6 is the least needed for it to run. When the GIJ will be DSHub compatible, I will post on

manual. (there are also other JVMs but I haven't tested them)

In most cases, you need a Sun JRE.

If you got a rpm-based distro, you can go to http://java.sun.com or any other site that allows you to download the JRE.

Or , you can use a package manager (with all the repos you need).

Debian / Ubuntu : synaptic

Suse : yast

Gentoo : emerge

Fedora/ Red Hat : yum

Centos : yum

DSHub can run with a JRE version 1.6.0.0 the least. So , if you get 1.7 or any latest, it should be ok.

Once you get the JRE installed on your system (I presume you picked the right one and the right OS), your system may have changed to reflect this.

Use any archive manager to unzip the DSHub package to any folder at your choice.

Get a terminal running, change the directory to the one you unzipped DSHub. Change directory is the cd command, example:

$ cd /home/DSHub
DSHub/$

If you got on another folder, you can always do

cd \dshub

After you got into the DSHub folder, try java –jar DSHub.jar

$ java -jar DSHub.jar
* Initializing DSHub Zeta ...*
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
GUI launched...
Done.
Parsing to Command Mode.Help for info,quit to quit.
Server created. Listening on port 411.
Start Time:Sun Jul 22 19:58:07 EEST 2007

\>

This is what console shows up. The GUI should appear as well. If you want to use GUI only you can run with javaw instead of java.

Possible problems :

Could not open jar file : This is because you did not cd to the right folder, or the jar file is corrupt or nonexistent. Check again.

Exception in thread… : You are not using the right JRE version, 1.6 is the least you can use

Unknown command java : You don't have Java installed at all, or not the right PATH set.

No window shows up ? : If you are running via tty with no X server or some kind of ssh terminal like putty, you will see message "GUI not viewable" and you will have to use console to manage the hub. The DSHub has a nice prompter that can take commands like the registered users via DC client.

Also, when running via console, there are possible problems. If you run with bash & (background running) the software stops responding (don't know why, but it freezes, can be JVM issue). So I found out that either you can run via javaw (if you don't need the console at all), or you can try screen. Screen is a nice program that most distros include, and you can use it to free your console, but keep the DSHub prompter ready to return to.

To start the screen named DSHub:

screen -A -m -d -S DSHub java -jar DSHub.jar

To restore the screen :

screen –r DSHub

To detach from screen and go back to shell prompt, type Ctrl+a, d

Here you go, your hub is running ☺

You can go to configure chapter, where you can configure via GUI or via console at DSHub prompter.

4. Configuring DSHub

DSHub is very easy to configure via GUI. I will explain all the options, and find their equivalent in console and visual interface.

When you first run DSHub, it automatically tries to listen to the TCP 411 port.

DSHub "always" runs.

If you want to stop it, just close it.

This can be done very easy, via the Exit button in GUI or by typing "quit" (unquoted of course) and hitting enter.

When hub is (re) started, it tries to apply port setting and listen to connections . Though, this may not have always success. Causes are: insufficient rights (not Administrator or root) , or the address to be in use. Anyway, all possible messages are being shown so you can correct them and press "restart" button or give "restart" command in console

"help" – this command shows all other commands with minimal description.

The standard help file (Theta version) :

General issue about commands: Most commands have a help when used with no parameteres.

--

Available Commands :
about -- The program credits.
adc -- ADC advanced configuration panel, setting contexts for each command.
backup -- A way to save configuration to files for backup or other usage.
bancid -- Bans a given cid or the cid of the given online user.
banip -- Bans a given ip or the ip of the given online user.
bannick -- Bans a given nick, drops if nick online.
cfg -- The hub variables.
chatcontrol -- An simple interface to handle chat control forbidden words.
cmdhistory -- Lists the last history_lines from given commands by logged users.
drop -- A kick with no reason or ban time, just drop/Extended drop.
grant -- Offers the posibility of editing an account's profile; use with no arguments for info.
gui -- Brings up the gui to server if available.
help -- This screen.
hideme -- Toggles if you are hidden or not in userlist.
history -- Lists the last history_lines from chat.
info -- Lists some useful information about a user,ip or cid.
kick -- Kicks out the user given by nick, add extra words for reason/Extended kick.
listban -- Lists the current banned CIDs/IPs/nicks.
listreg -- Lists the current registered CIDs.

mass -- Broadcast message, takes extended parameters.
mynick -- Changes your nick to new specified one.
password newpass -- Changes your current password, where newpass is the new password.
port -- A simple interface to maintain current listening ports.
quit -- Shuts down hub.
redirect -- Redirect user(s), takes extended parameteres.
reg CID/online user nick -- Reg the new CID with no password (by default) or the CID of the online user specified by nick.
If already registered, display registration info.
rename -- Renames the user given by nick to new nick given.
restart -- Restarts hub.
stats -- Hub statistics.
topic newtopic -- Where newtopic is the new desired topic; use with no arguments to delete current topic.
unban -- Unbans the specified, looking in CID/IP/nick order.
ureg CID/online user nick -- Unregs the CID/user's CID from database.
usercount -- Info about the current user count.

Command explanation:

a) **About**. Shows the name of the soft developer, aka me.

b) **Adc**. This command is the ADC advanced configuration panel , which allows enabling and disabling all the client ADC commands that hub may receive, function of their contexts. If you use with no parameters, the following table + info appears:

ADC Advanced Configuration Settings.

To modify a value use " adc _context__name_ on/off "
Example : "adc bmsg off", where "b" is the context,
"msg" is the name and off is the specifier of what to do.
Current Settings :

MSG :	STA:	CTM:	RCM:	INF:	SCH:	RES:	PAS:	SUP:
B on	B off	B off	B off	B on	B on	B off	B off	B off
D on	D on	D on	D on	D off	D on	D on	D off	D off
E on	E on	E on	E on	E off	E on	E on	E off	E off
F on	F off	F off	F off	F off	F on	F off	F off	F off
H on	H on	H off	H off	H off	H off	H off	H on	H on

If you try to use "adc command", you will get a screen similar to this:

ADC Advanced Configuration Settings.

  EMSG is currently on.

If you use "adc command on/off", the command will be enabled/disabled:

ADC Advanced Configuration Settings.

  Setting EMSG off.

For info about each command and its context, refer to GUI's [?] boxes or the link to ADC protocol draft.

c) **Backup** Usage backup what [where]

   "what" is one of {all,config,bans,regs} and represents   what to backup.

   "where" can be specified only for {config,bans,regs} and is a filename for where to save backup. If no "where" specified, files are saved as name.bak ; also on specifier all, the same name covention used.

   Example: !backup config conf.saved

d) **Bancid**. This command has a parameter that can be either an CID (it bans the CID), or a nick. In last case, the CID of the user with that nick is being banned.

e) **Banip**. Same as bancid, but on IP.

f) **Bannick**. Same as bancid, but on nick.

g) **Cfg**. The command that allows to set the hub by configuration variables. What can be changed about hub (except port and topic) is here. All variables are described in sections below.

h) **Chatcontrol**

The chatcontrol command:

Usage: chatcontrol list

        -- brings up a list of chat controls and their unique ID

Usage: chatcontrol add "regular expression" flags [modification]

        -- adds the regular expression with corresponding flags. The expression must be enclosed in quotes.

The flags are :

 Drop user 1

 Kick user 2

 Don't do anything to client 4

 Hide the matching word from chat 8

 Replace matching word with stars (****) 16

 Modify matching word with given modification 32

Control private chat as well 64
Report to operator's chat 128
Also check searches 256
As you can see, you must not select all flags, but one of each category.
Example: Drop user and replace word with stars : Use flag 1+16=17
Note: flag 64, 128 and 256 are independent of others.
Note: The modification parameter is only available for flag including 32.

Usage: chatcontrol mod ID/"regular expression" flags [modification].
        -- mods the regular expression already listed given by string or it's unique ID. Parameters are same like on adding.

Usage: chatcontrol del ID/"regular expression"
        -- deletes the regular expression given by itself or by it's unique ID.

Usage: chatcontrol save "filename"
        -- saves the current wordlist into file specified by path. For security reasons, you can write to DSHub installation dir only.

Usage: chatcontrol load "filename"
        -- load the wordlist configuration from the file specified by path. For security reasons, you can read from DSHub installation dir only.

i) **Cmdhistory**. Same as history, but shows the commands that ops have taken. (Except password ;)
j) **Drop**. A kick with no ban. Can take extended arguments like kick and mass.
k) **Grant**. A command that can change the profile of a registered user, by adding or removing dynamically attributes. There is an attribute for each command

listed here, plus some attributes regarding the user's access and view.

The grant command:
Usage grant user/CID [[+-]attribute1]*
    +attribute adds the atribute to the registered user, - removes it.
    [+-]all adds all possible attributes.
   List of attributes: about adc backup bancid banip bannick cfg chatcontrol cmdhistory drop grant gui help hideme history info kick listban listreg mass mynick password plugmin port quit redirect reg rename restart stats topic unban ureg usercount flyable key kickable modules nickprotected opchataccess overridefull overrideshare overridespam renameable

Example: grant Pietry +kick+info+stats-adc-cfg
Will create a screen :

Editing Account: ELQ4PY6NGDN4DR6L27HYUACXI6YYQ6DO3PBOCPI
 kick modified to true
 info modified to true
 stats modified to true
 adc modified to false
 cfg modified to false
Done.

You cannot grant an attribute you don't posses, and you can't grant if you aren't a granter.

The attribute all tries to grant all attributes to specified account.

Specific account attributes are : flyable key kickable modules nickprotected opchataccess overridefull overrideshare overridespam renameable

Flyable is a very special attribute which allows both versability and flexibility to DSHub. To be checked, it requires that the account has a password set. If so, the account can be used by somebody with a different CID than registered one , if it can provide the password to the last used nick with the account. After such kind of usage, the account CID is being changed to new one. Also, when checking flyable, the account nick protection is gone (to let possible people to fly the account).

   Key gives the registered user an operator's Key.

   Nick protected stops the last nick of the registered user to be used by others when he is not logged in.

   Override settings override the hub full, share restrictions, spam for the registered users.

   Kickable and renameable do exactly what they mean.

   Opchataccess checks if user can see the opchat or not.

Modules checks if user can give modules commands.

l) **Gui**. This command brings up the GUI on the server if hidden via the HideMe button. Else, the message : "GUI not viewable" is printed.

m) **Help**. Shows the help screen.

n) **Hideme**. This command hides the user taking it from the other users, not appearing in user list anymore. With no arguments, has a toggle usage. Hidden status is being kept even when reconnect.

o) **History**. This command shows the last history_lines from chat, who are being kept in hub memory. History_lines is a cfg variable. This is particularly useful when you want to see a chat that you missed (connection fail, a night's chat, etc.)

p) **Info**. This is a versatile command. The argument can be an online user. In which case, the user info is printed (among with reg info if user is registered). If the argument is an ip/cid, then info about it is shown (who is using it).

q) **Kick**. Same as mass, can have extended features, this command disconnects users and tempbans them for the amount in cfg variable kick_time.
   The ban is CID based.

r) **Listban**. Lists the current bans and with a last nick for each one.

s) **Listreg**. Minimal command that brings up a list of regs and the last nick they were seen with. In the future , will be deprecated or improved.

t) **Mass**. Command that sends a mass message to users on the hub. To what users send? It's selectable via regex or fields.

Mass Command:
Broadcasting in DSHub is very simple now.
Classic mass:
Mass message to all users, example: "mass all text".
Extended mass has way more advantages and can be used very efficiently with a large hub.

Extended mass features:

   Sending to users that match a certain regular expression:

     Example: !mass \[RO\].* text -- this command sends mass to all users that have their nick starting with [RO]

     Example: !mass .. text --this command sends mass to all users with 2 letter nicks

     This type of mass command accepts just any regular expression.

   Sending to users that have their fields checked:

     Example: !mass share<1024 text --this command just sends text to all users with share less then 1 gigabyte.

     Example: !mass sl=1 text-- this command just sends text to all users with exactly one open slot.

     Example: !mass su!tcp4 text -- this command just sends text to all passive users.

Extended mass has the operators >, < , =, !

   And a list of possible fields : all (to everybody) share, sl (slots), ni (nick length),su(supports, accepts only = or !, example: !mass su=tcp4 text),hn(normal hubs count),hr(registered hub count),ho(op hub count),aw(away, 1 means normal away, 2 means extended away),rg (1- registered, 0 otherwise, registered means not op),op (1 - op, 0 - otherwise , op means it has key).

   u) **Mynick**. Changes the current nick of oneself, to the one given as argument in command.

   v) **Password**. At any time, the user taking the command may change his registration password. The command does not appear in cmdhistory.

   w) **Plugmin**.

Plugmin command. A way to administer plugins.

Usage:

   plugmin list -- lists the current scanned plugins, their status and their ID.

   plugmin enable ID/name -- Enables the plugin given by ID or name.

   plugmin disable ID/name -- Disables the plugin given by ID or name.

plugmin scan -- Rescans the modules directory and refreshes current plugins.

x) **Port**. This command is a way to modify the current ports the hub is listening on, also to see them and their status. The standard help displayed on it , among with the current ports example :

Port, a simple server port handling interface.
Usage: port -- displays this text along with current ports and their status
    port add x -- adds the port x to ports, immediately starting to listen to it (if possible, otherwise status DEAD)
    port del x -- deletes the port x from ports, immediately closing listening to it. Note that this also DISCONNECTS clients connected using this port.
Current ports among with their status :
411 LISTENING

y) **Quit**. This command shuts down completely, and to start it again you need to open it again from server.

z) **Redirect**. Redirects user(s) to given URL or to the cfg variable redirect_url (if nothing specified). Takes regular expression or field check (similar with kick/mass/drop).

aa)   **Reg**. This command creates a standard reg. There are possible situation of this command's behavior, according to the parameter. If a CID is supplied, the CID is being regged (if a user is currently using the CID, is being regged). If a nick is supplied, actually his CID is being regged. Nick has nothing to do with the reg, is just a easy way to reg a CID (to take from a online user). If a CID or a user is already regged, information about it is being shown, the reginfo. So , this command servers as info for a reg too.
    Also, the reg is made with no password, just CID check. See the password command on how a user can set his password.

bb)   **Rename**. First argument is the nick of an online user, and second the new nick the user is supposed to have. Simply changes the nick. Ops can be renamed only if the rename_ops variable is set to 1.

cc)   **Restart**. This command restarts hub completely, dropping all users, after a 5 second timeout.

dd)   **Stats**. Shows all the hub statistics, including start time, usercount and OS version where the hub runs on.

ee)   **Topic**. Changes the current hub topic, to the string given, if nothing given, the topic is deleted.

ff)   **Unban**. This command is a generic ban deleter. In DSHub there are 3 types of banning: IP, CID and nick. Unban can take any of these 3 parameters, and unban it (delete it from ban database).

gg)   **Ureg**. This command unregs a CID or a online user's CID. Same like reg, the argument can be a CID or a online user, in which case he is deleted. The name ureg and not unreg, is Unix style.

hh)   **Usercount**. This command shows the number of users that are currently online hub and the number of sockets open (users trying to login).

5. Cfg Variables.

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    Cfg Variables list:
    timeout_login          20           -- Number of seconds for hub to
wait for connecting users until kick them out.
    hub_name               hub of Administrator        -- Hub name to
display in main window.
    hub_host               127.0.0.1:411        -- Hub host (address)
(enter your DNS here) and your main port.
    proxy_host                           -- Proxy host ( for http
integration modules ).
    proxy_port             0           -- Proxy port ( for http
integration modules ).
    redirect_url                        -- The main redirect URL to send
faulty users ( or default redirects ).
    max_ni                 64          -- Maximum nick size, integer.
    min_ni                 1           -- Minimum nick size, integer.
    max_de                 128         -- Maximum description size,
integer.
    max_share              10485760        -- Maximum share size, long
integer.
    min_share              0           -- Minimum share size, long
integer.
    max_sl                 1000         -- Maximum slot number,
integer.
    min_sl                 0           -- Minimum slot number, integer.
    max_em                 128          -- Maximum e-mail string size,
integer.
    max_hubs_op            70          -- Maximum hubs where user is op,
integer.
    max_hubs_reg           30          -- Maximum hubs where user is reg,
integer.
    max_hubs_user          200          -- Maximum hubs where user is
user, integer.
    max_sch_chars          256         -- Maximum search chars, integer.
    min_sch_chars          3         -- Minimum search chars, integer.
    max_chat_msg           512          -- Maximum chat message size,
integer.
    max_users              1000          -- Maximum number of online
users, integer.
    history_lines          50           -- Number of lines to keep in
chat history.
    opchat_name            OpChat        -- The Operator Chat Bot Nick.
    opchat_desc            BoT         -- The Operator Chat Bot
Description.
    kick_time              300           -- The time to ban a user with a
kick, in seconds.
    msg_banned             Have a nice day and don't forget to smile !
-- The aditional message to show to banned users when connecting.
    msg_full               Have a nice day and don't forget to smile !
-- Message to be shown to connecting users when hub full.
    reg_only               0        -- 1 = registered only hub. 0 =
otherwise.
    nick_chars
ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz1234567890[]()-
```

```
.,;'`~*&^%$#@!+=_|{}<>:          -- Chars that could be used for a nick,
String.
    chat_interval          0          -- Interval between chat lines,
millis, Integer.
    save_logs              1          -- 1 = logs are saved to file, 0
otherwise.
    automagic_search       36          -- Interval between automagic
searches for each user, seconds, Integer.
    search_log_base        2000          -- Logarithmic base for user
searches interval, millis, Integer.
    search_steps           6          -- Maximum nr of search steps
allowed until reset needed, Integer.
    search_spam_reset      300          -- Interval until search_steps
is being reset, seconds, Integer.
    msg_search_spam        Search ticket Reserved.
Please be patient while search
is being processed.
Do NOT close this window or start other search
or you will lose this search !          -- Message that appears as a
result when search is delayed, String.
    bot_name               DSHub          -- Hub security bot name,
String.
    bot_desc               www.death-squad.ro/dshub          -- Hub
security bot description, String.
```

This is the cfg variables list. The current list of all hub variables that may be changed via the cfg command.

To see them all, use *cfg list*. To change one of them, use *cfg < variable name > < new value >*

I think that the variables are quite clear, any question, you can ask on forums or on my test hubs (address mentioned on site).

But there is necessary to explain the logarithmic search scale I implemented in DSHub.

DSHub has now powerful searching features.

First, we need to make a distinction between the automagic and the user searches.

First type is made by client at a regular interval and DSHub keeps a liniar spam setting.

Second type are user searches (manual searches) that the user takes.

For this type (because of the human factor) DSHub keeps a logarithmic spam setting.

This way, the 2nd search is at search_log_base interval, but third, is at search_log_base^2 and so on, until the power gets to max_steps.

After this point, the user needs to wait
search_spam_reset seconds to get his burst back.
The searches are being kept in queue (not ignored !)
and are processed once the timeout is completed
so user doesn't need to search again
but just wait for his search to be completed.
The messages appears as a fictive result
in his search box, which will be filled
once the search string is being sent to others.

6. Additional Modules (plugins)

Plugins must meet the following requirements:
1)Packed up as .jar file
2)Contain class PluginMain which implements the interface dshub.Modules.DshubModule (fixed name)
3)This class must be in package dshub.plugin;
4)The plugins must be placed in /modules directory.

The interface may be viewed in :
http://dshub.svn.sourceforge.net/viewvc/dshub/trunk/src/dshub/Modules/DSHubModule.java?view=markup
with additional comments for each functions

The interface may suffer additional changes when software changes.

If you create modules, add them on a tracker on
http://sourceforge.net/tracker/?group_id=197166&atid=1020439
Important plugins will be added in file releases ;)

6.1. Hubtracker Integration Module
Hubtracker integration module adds the following command :
hubtracker -- registers hub on hubtracker.com, use with no parameters for details.
The detailed help :
hubtracker <user> <password> <e-mail>
Where <user> is the desired/active username on hubtracker.com,
- <password> is the desired/active login password on hubtracker.com
- <e-mail> is the desired/active e-mail for the hubtracker.com account.
Desired means that you don't have an account and you want to make one

and active means that you already have an account and you want to use it.

The hub autoregisters with the current hub_host.

Also, this is possible via the GUI button for this plugin.

DSHub also provides a generic plugin that does nothing, just for testing purposes or anybody interested in how plugin mechanics work.

6.2. Ping Hub-Hublist Communication Module.

This module provides a way to communicate with autoregister servers provided by hublists. The hub can connect to a list of provided hublists and self register on them.

The plugin adds the following command :

hublist -- A simple way to register the hub on hublists, also to add/remove hublists.

With a more detailed help :

[PingHH:] Ping Extension Hublist Autoregistering Module Help:

Hublist command:

hublist register -- starts the autoregistration process.

hublist list -- lists the current hublists along with their status.

hublist add <URL> -- adds the given URL to hublist list.

hublist del <URL> -- deletes the given URL from the hublist list.

hublist mod <oldURL> <newURL> -- modifies the given oldURL from the hublist list into newURL.

The hub autoregisters with the hub_host.

7.Conclusion.

DSHub has innovative ideas; it's the first ADC hubsoft with a nice graphical user interface, first with an logarithmic search scale (not linear), he first that can take commands using regex and field based.

It's still in development and will implement more and more interesting ideas I have. If you got any of yourself, I am open to them, so just paste of forum and I will get to you.

I really hope that DSHub will make people happier and they will have fun using it.

I would like to thank all others who helped me and supported me all this time.

If you would like to get involved in DSHub project, go right ahead and e-mail me mailto:pietry@death-squad.ro , or visit the official support hub : adc://adchub.death-squad.ro:1111 , or post on sourceforge page.

Some useful links available :

DSHub svn repository :
https://dshub.svn.sf.net/svnroot/dshub/trunk
(to get in touch with latest source code changes , also includes a binary)

DSHub feature trackers :
http://sourceforge.net/tracker/?group_id=197166&atid=960378
(where you can read , comment or submit any features you like on DSHub)
DSHub bugs trackers :
http://sourceforge.net/tracker/?group_id=197166&atid=960375
(where you can read , comment or submit any bugs)
DSHub-commit mailing list :
http://sourceforge.net/mail/?group_id=197166
(where you can get notifies of trackers and svn commits)

DSHub plugins tracker
http://sourceforge.net/tracker/?group_id=197166&atid=1020439
(where you can read about, comment , download or submit any DSHub plugin)
Announcement: DSHub plugins :
Create the best plugin and it will be included in the official distro !
More info on tracker
http://sourceforge.net/tracker/index.php?func=detail&aid=1846236&group_id=197166&atid=960378

I love you all and hope we will hear each other soon.

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