*By ZcWorld* Published: 2007-01-31 15:48

# How To Set Up An IRC Server And Anope IRC Services

This tutorial describes how to set up and run an UnrealIRCD server on OpenSuSE 10.2 and Fedora Core 6. It also shows how to install Anope IRC services. Anope is a set of Services for IRC networks that allows users to manage their nicks and channels in a secure and efficient way, and administrators to manage their network with powerful tools.

## **Before We Start**

What we need to get:

- a DNS name : get one for free from like no-ip or dyndns

- IF you dont want SSL on the server you gotta edit my .conf files to make them work or you going to have an error on them but it will tell you what line the error is on

This was tested on

- OpenSuse ver 10.2

- Fedora Core ver 6 (I386)

# Who Did What

Writen / Tested by ZcWorld Helped / Tested by Craz1 Tested by Granddad

# **Check List**

What we need:

- Linux OS (fc 6 or opensuse)
- UnrealIRCD 3.2
- Anope services
- compiler
- SU access rights (superuser)
- and a LOT of time
- and a good signing voice (joke) but im sur eyou will be doing a lot of yelling doing this
- water and coffee n something to eat as well (there is a lot of waiting at times. .. when its does the compiling and building)

My setup:

I got a personal account on my server pc.

SUB Notes :::

If working in a VM make a backup of the OS - just in case it goes ass up or u can redo the test to make sure you got it down. :)

Or if it's on a real pc .. than arrr good luck and hope it doest stuff up first time around that's all I can say.

## Step 1

Time to get a copy of the UnrealIRC server and a coyp of anope services for the server - in total about 3.5 MB.

http://www.unrealircd.com/ http://www.anope.org/

My demo .conf files (are in .RAR and .ZIP format :)):

**<u>RAR</u>** 16 KB <u>**ZIP**</u>

**<u>ZIP</u>** 20 KB

If you download them on another pc than the linux pc then copy them over via WinSCP or something else.

If you downloaded them on the pc .. just move them over to a build folder like at /home/zcworld/src/ (you may have to make a build folder ;)).

Make a folder called *src* then open the folder on server side in WinSCP. Then drag and drop the files over and click copy. It will take an min or two to copy over. Then that's it.

🗣 zcworld - zcworld@192.168.1.102 - Win	nSCP				
	1	- 🗸 🖉	C		
। 🔹 💀 - । 😤 📽 🕹 🔛		Default	- 0 (	5 -	
🖙 C: Xp-use 💌   🖛 ▾ ⇒ ▾   🚰 🚺	ක් 🙆 😂 🗞	Local Mark Files	Commands Session	Options R	emote Help
C:\Documents and Settings\Administrator\Desktop\APF	Z + settings	zcworld	▼   4= + ⇒ -		🖞 🙆 😫
Name ^ Ext Size Type	Change	/home/zcworld			
🕲 Parent d		Name - Ext		Size	Changed
New Folder File Folder		<b>(b</b> )			20/01/2007 10:
Settings File Folde		Conts			20/01/2007 9:5
sanope-1.6.5.tar.gz 878,978 WinRAR		🛅 .mozilla			20/01/2007 9:5
10 Unreal3.2.6.tar.gz 2,629,046 WinRAR	archive 19/01/2	C.xemacs			20/01/2007 9:5
		CALL.			20/01/2007 9:5
Create fold	ler		? 🔀		20/01/2007 9:5
New folder n	amer				20/01/2007 9:5
sic .				0	
sic				1,177	20/01/2007 9:5
				208	20/01/2007 9:5
More >>	ОК	Cancel	Help	1,637	20/01/2007 9:5
				1,332	20/01/2007 9:5
		.inputrc .kermrc		861 164	20/01/2007 9:5 20/01/2007 9:5
		.muttrc		6,043	20/01/2007 9:5
		.profile		925	20/01/2007 9:5
		.urlview		311	20/01/2007 9:5
		.xcorairc		7,913	20/01/2007 9:5
		🖬talkrc		119	20/01/2007 9:5
<	>	<	10	_	>

/home/zcworld/src	
Name 🔺 Ext	Size Changed
<b>È</b>	20/01/2007 10:
ᇮ anope-1.6.5.tar.gz	878,978 21/01/2007 11:
🍓 Unreal3.2.6.tar.gz	2,629,046 19/01/2007 10:
<	>

# Step 2

Log in as your normal user, then type

su - <ENTER>

<password> <ENTER>

<< Find the OS you're using and do what it says here. >>

User info

Username: *ircadmin* Password: what you want Group: *ircadmin* 

# **OpenSuSE OS**

Step 1: type

yast

Step 2: then pick from the list Security and Users then tab pick Group Management:

Software	Firewall
Hardware	Group Management
System	Local Security
Network Devices	Sudo
Network Services	User Management
Novell AppArmor	
Security and Users	
Miscellaneous	

Step 3: alt + a then in the group name box type: *ircadmin*: then alt +a (make sure you write down what was in there first: normal just users).

http://www.howtoforge.com/

How To Set Up An IRC Server And Anope IRC Services

New Local Group	
Group Name ircadmin	Group Members
	[] bin [] daemon
Group ID (gid)	[] ftp
1000	[] games
	[] haldaemon
	[] 1p
	[] mail
	[] man
	[] messagebus
Password	[] news
	[] nobody
	[ ] ntp
	[ ] postfix
Confirm Password	[] root

User and Gro ( ) Users(x)		Filter:	Custom			
Group Name ircadmin	Group ID 1000	Group	Members			
users	100	games,	zcworld			
[Add][Edit]		ert Opt	ionsv	7]	[Set F	ilterv]
[ Back ]		[Abo	ort]		C	Finish]

Step 4: then alt +u then alt + x then enter on Defaults for New Users:

User and (x) Users			stration	Filter:	Custom
Login zcworld	Name zcworld	UID 1000	Groups dialout,video,us	ers	
[Add] [Ed:				[Set F	ilter <b>v</b> ]
[ Back ]		[Lxpei	rt Optionsv] [Abort]	[]	Finish]

User and (x) User:			tration		Filter:	Custom
_	Name zcworld		Groups dialout,v	ideo,use	rs	
[Add][Ed: [Back]	it][Dele	Passw Authe	lts for N ord Encry ntication Changes	ption and Use		rv] sh]

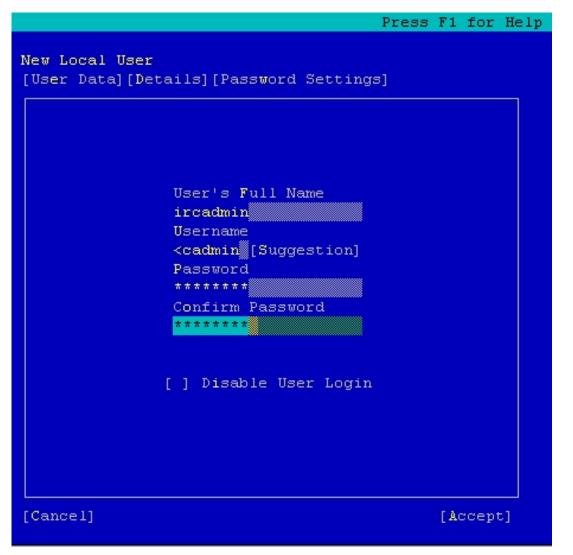
Step 5: pick from the list the *ircadmin* as default group: nothing in the secondary groups then *alt* + *a*:

		Press F1 for Help
37-0	d manadau d m	
Ne	ircadmin	ts
	users	
	at audio	
	bin	p
	cdrom	¥
	console	oups
	daemon	0
	dialout	n Shell
	disk	v
	floppy	for Home Directory
	ftp	[Browse]
	games	Home Directory
	haldaemon	[Browse]
	kmem -	me Directory
	1p	
	mail	ration Date
	maildrop	
	man	assword Expiration Login Is Usable
	messagebus	-1^
	modem	
	news	
	nobody	
	nogroup	
[C	ntadmin	[Accept]

Press F1 for Help
New User Defaults
Default Group
ircadmin v
Secondary Groups
Default Login Shell
/bin/bash v
Path Prefix for Home Directory /home/ [Browse]
/home/ [Browse] Skeleton for Home Directory
/etc/skel [Browse]
Umask for Home Directory
022
Default Expiration Date
Days after Password Expiration Login Is Usable
-1*
[Cancel] [Accept]

Step 6: then alt + a: then type the full name for the *ircadmin* account / account name / password then alt + a:

					Press	F1 f	or H	Ielp
User and (x) User:			stration		Filte	ar: C	usto	m
Login	Name zcworld	UID	Groups dialout,	zideo us	aro			
ZCWOLIG	ZCWOLIU	1000	ulaiout,	/iueo,u	SELS			
[Add][Ed					[Set	Fil	terv	- 1
[ Back ]		[Exper	rt Options [Abort]	sv]		[Fi	nisł	1]



		Group Adm: ( ) Group:		ration	Filter:	Custom
	Login	Name	UID	Groups		
	ircadmin	ircadmin	1001	ircadmin		
	zcworld	zcworld	1000	dialout, video,	users	
[	Add][Edit	t][Delete]	]		[Set F	ilterv]
		[E:		Optionsv]		
[	Back ]			[Abort]	D	Finish]

### Step 7: alt + f then wait 10 secs then alt + q.

\*\*\*\*\*

# **FC 6**

arrr < sorry i don't know how to add users via command line on FC :( sorry >

# Step 3

### Type

u -
oot password here
if the bin folder is there than skip this part but do the chown part)
d /home/ircadmin
ake bin
ake conf
hown -R ircadmin:ircadmin ./
s -al

http://www.howtoforge.com/

How To Set Up An IRC Server And Anope IRC Services

zcworld@dhcppc2:~> su -									
Password:									
dhcppc2:~ # yast									
dhcppc2:~ # cd /home/									
ircadmin/ lost+found/ zcworld/									
dhcppc2:~ # cd /home/ircadmin/									
dhcppc2:/home/ircadmin # 1s -al									
total 88									
drwxr-xr-x 8 ircadmin ircadmin 4096 Jan 20 22:52 .									
drwxr-xr-x 5 root root 4096 Jan 20 22:57									
-rw 1 ircadmin ircadmin 89 Jan 20 22:55 .bash history									
-rw-rr 1 ircadmin ircadmin 1177 Jan 20 22:31 .bashrc									
-rw-rr 1 ircadmin ircadmin 208 Jan 20 22:31 .dvipsrc									
-rw-rr 1 ircadmin ircadmin 1637 Jan 20 22:31 .emacs									
-rw-rr 1 ircadmin ircadmin 1332 Jan 20 22:31 .exrc									
drwxr-xr-x 2 ircadmin ircadmin 4096 Jan 20 22:31 .fonts									
-rw-rr 1 ircadmin ircadmin 861 Jan 20 22:31 .inputrc									
-rw-rr 1 ircadmin ircadmin 164 Jan 20 22:31 .kermrc									
drwxr-xr-x 2 ircadmin ircadmin 4096 Jan 20 22:31 .mozilla									
-rw-rr 1 ircadmin ircadmin 6043 Jan 20 22:31 .muttrc									
-rw-rr 1 ircadmin ircadmin 925 Jan 20 22:31 .profile									
-rw-rr 1 ircadmin ircadmin 311 Jan 20 22:31 .urlview									
-rw-rr 1 ircadmin ircadmin 7913 Jan 20 22:31 .xcoralrc									
drwxr-xr-x 2 ircadmin ircadmin 4096 Jan 20 22:31 .xemacs									
-rw-rr 1 ircadmin ircadmin 119 Jan 20 22:31 .xtalkrc									
drwx 2 ircadmin ircadmin 4096 Jan 20 22:31 Documents									
drwxr-xr-x 2 ircadmin ircadmin 4096 Jan 20 22:52 <mark>bin</mark>									
drwxr-xr-x 2 ircadmin ircadmin 4096 Jan 20 22:31 public_html									
dhcppc2:/home/ircadmin # exit									
logout									
zcworld@dhcppc2:~>									

(Note: I'm sure you will see that I don't have a conf folder in my screenshot < bad me >.)

Exit out of SuperUser access:

exit
pwd
to make sure you are in your home folder
/home/zcworld
cd src
tar -zxf Unreal3.2.6.tar.gz
tar -zxf anope-1.6.5.tar.gz 33
cd Unreal3.2
./Config

(Here's my screen dump when I built mine up. :))

Do you want to enable the server anti-spoof protection? [No]

What directory are all the server configuration files in? [/home/zcworld/src/Unreal3.2]

What is the path to the ircd binary including the name of the binary? [/home/zcworld/src/Unreal3.2/src/ircd]

Would you like to compile as a hub or as a leaf? Type Hub to select hub and Leaf to select leaf.

[Hub]

What is the hostname of the server running your IRCd? [dhcppc2]

```
What should the default permissions for your configuration files be? (Set this to 0 to disable)
It is strongly recommended that you use 0600 to prevent unwanted reading of the file
[0600]
```

```
Do you want to support SSL (Secure Sockets Layer) connections? [No]
```

If you know the path to OpenSSL on your system, enter it here. If not leave this blank

```
[]
```

```
Do you want to enable IPv6 support? [No]
```

```
Do you want to enable ziplinks support? [No]
```

```
If you know the path to zlib on your system, enter it here. If not leave this blank
```

```
[]
```

Do you want to enable remote includes? [No]

Do you want to enable prefixes for chanadmin and chanowner? This will give +a the & prefix and ~ for +q (just like +o is @) Supported by the major clients (mIRC, xchat, epic, eggdrop, Klient, PJIRC, irssi, CGI:IRC, etc.)

This feature should be enabled/disabled network-wide. [Yes]

What listen() backlog value do you wish to use? Some older servers have problems with more than 5, others work fine with many more. [5]

How far back do you want to keep the nickname history? [2000]

What is the maximum sendq length you wish to have? [3000000]

```
How many buffer pools would you like?
This number will be multiplied by MAXSENDQLENGTH.
[18]
```

How many file descriptors (or sockets) can the IRCd use? [1024]

```
Would you like any more parameters to configure?
Write them here:
```

```
[]
```

```
./configure --with-showlistmodes --enable-nospoof --enable-hub --enable-ssl --enable-ziplinks --enable-prefixaq
--with-listen=5 --with-dpath=/home/ircadmin/conf --with-spath=/home/ircadmin/bin/ircd --with-nick-history=2000
--with-sendq=3000000 --with-bufferpool=18 --with-hostname=irc.zcworld-evil.mine.nu --with-permissions=0600
--with-fd-setsize=1024 --enable-dynamic-linking
checking for gcc... gcc
```

If you enabled SSL than just do what it says on screen. If you didn't pick that then miss this step.

(Looks like this:)

You are about to be asked to enter information that will be incorporated into your certificate request. What you are about to enter is what is called a Distinguished Name or a DN. There are quite a few fields but you can leave some blank For some fields there will be a default value, If you enter '.', the field will be left blank. Country Name [US]:AU State/Province [New York]:south Australia Locality Name (eg, city) []:Port Lincoln Organization Name (eg, company) [IRC geeks]:ZcWorld IRC Organizational Unit Name (eg, section) [IRCd]:IRCD Common Name (Full domain of your server) []:irc.zcworld-evil.mine.nu Generating self-signed certificate .. /usr/bin/openssl req -x509 -days 365 -in server.req.pem \ -key server.key.pem -out server.cert.pem Generating fingerprint ... /usr/bin/openssl x509 -subject -dates -fingerprint -noout \ -in server.cert.pem subject= /C=AU/ST=south Australia/L=Port Lincoln/O=ZcWorld IRC /OU=IRCD/CN=irc.z cworld-evil.mine.nu notBefore=Jan 20 12:41:13 2007 GMT notAfter=Jan 20 12:41:13 2008 GMT SH&1 Fingerprint=99:2E:4D:9F:17:FF:&8:C8:80:B3:96:C5:47:0D:E2:7C:28:BF:B0:68 Setting o-rwx & g-rwx for files... chmod o-rwx server.req.pem server.key.pem server.cert.pem chmod g-rwx server.req.pem server.key.pem server.cert.pem Done!. If you want to encrypt the private key, run make encpem Congratulations on your new SSL self-signed certificate for your IRCd. However, wouldn't it be better that you get your certifcate signed by some kind of Certification Authority (CA), so your users can check that | they are really connected to the real server, so they feel secure? There is an initiative at CACert.org - They offer SSL Certificates for use with your IRCd for free, so your users can be sure that they can trust you and your server. To get a free signed certificate please visit http://www.CACert.org | Press enter to continue |

### Step 4

After it's done type

su <password>

(Should be in the folder you were in but with SuperUser access.)

make install

(Screen dump:)

zcworld@dhcppc2:~/build/Unreal3.2> su -Password: dhcppc2:~ # cd /home/zcworld/src/Unreal3.2/ dhcppc2:/home/zcworld/src/Unreal3.2 # make install Building src make[1]: Entering directory `/home/zcworld/src/Unreal3.2/src' cd modules; make 'CFLAGS=-I../include -I/home/zcworld/src/Unreal3.2/extras/regexp/include -I/home/zcworld/src/Unreal3.2/extras/c-ares/include -L../extras/c-ares/lib -pipe -g -O2 -funsigned-char -fno-strict-aliasing -Wno-pointer-sign -DZIP LINKS -export-dynamic ' 'CC=qcc' 'IRCDLIBS=-lcrypt -lnsl -lz -ldl -L/home/zcworld/src/Unreal3.2/extras/regexp/lib -ltre -lcares' 'LDFLAGS=' 'IRCDMODE=711' 'BINDIR=/home/ircadmin/bin/ircd' 'INSTALL=/usr/bin/install' 'INCLUDEDIR=../include' 'IRCDDIR=/home/ircadmin/conf' 'MANDIR=' 'RM=/bin/rm' 'CP=/bin/cp' 'TOUCH=/usr/bin/touch' 'RES=' 'SHELL=/bin/sh' 'STRTOUL=' 'CRYPTOLIB=-lssl -lcrypto' 'CRYPTOINCLUDES=' 'URL=' all make[2]: Entering directory `/home/zcworld/src/Unreal3.2/src/modules' make[2]: Nothing to be done for `all'. make[2]: Leaving directory `/home/zcworld/src/Unreal3.2/src/modules' make[1]: Leaving directory `/home/zcworld/src/Unreal3.2/src'

<sup>|</sup> Compile is now complete. |

<sup>|</sup> You should now read the documentation and learn |

<sup>|</sup> how to configure your IRCd. |

<sup>| |</sup> 

```
| If you really like UnrealIRCd, and would like to |
 make a donation, please read the Donation file in
 this archive. :) |
 Thanks for using Unreal IRCd! If you are in need |
 for any kind of help regarding the IRCd please |
 read the Unreal.nfo file. |
/usr/bin/install -m 0700 -d /home/ircadmin/conf
/usr/bin/install -m 0700 src/ircd /home/ircadmin/bin/ircd
/usr/bin/install -m 0700 -d /home/ircadmin/conf/networks
/usr/bin/install -m 0600 networks/*.network /home/ircadmin/conf/networks
/usr/bin/install -m 0700 networks/makenet /home/ircadmin/conf/networks
/usr/bin/install -m 0600 networks/networks.ndx /home/ircadmin/conf/networks
/usr/bin/install -m 0700 -d /home/ircadmin/conf/doc
/usr/bin/install -m 0600 doc/Authors doc/example.conf doc/coding-quidelines doc/tao.of.irc doc/unreal32docs.html
/home/ircadmin/conf/doc
/usr/bin/install -m 0700 -d /home/ircadmin/conf/aliases
/usr/bin/install -m 0600 aliases/*.conf /home/ircadmin/conf/aliases
/usr/bin/touch /home/ircadmin/conf/unrealircd.conf
chmod 0600 /home/ircadmin/conf/unrealircd.conf
/usr/bin/install -m 0600 spamfilter.conf dccallow.conf /home/ircadmin/conf
/usr/bin/install -m 0600 badwords.*.conf help.conf LICENSE Donation /home/ircadmin/conf
/usr/bin/install -m 0700 unreal /home/ircadmin/conf
/usr/bin/install -m 0700 -d /home/ircadmin/conf/modules
/usr/bin/install -m 0700 src/modules/*.so /home/ircadmin/conf/modules
```

#### (If you didn't do SSL then skip this line.)

cp server.\*.pem ~ircadmin/conf/

cd ~ircadmin/

Copy over the conf folder to the */home/ircadmin* root and replace any files. (If you are going to use my demo config files for the first run: make sure you log in with the *ircadmin* account in WinSCP to upload / copy the files over.)

#### If not:

cp /home/zcworld/src/Unreal3.2/doc/example.conf

/home/ircadmin/conf/unrealircd.conf

			+	- 🛛 🔹 🖉	C		
🕰 - 🔞 🛛	📽 🤁 🔛 🖉	8		Default	- <b>O</b>	<b>3</b> -	
i C: Xp-use 🛛 🖌	]   4= + ⇒ -	🖻 🔝 🚮 🔮	🖮 දීදු	Local Mark Files	Commands Sess	ion Options	Remote Help
V VDeskto	op\APPZ + settings\	Settings		ircadmin	💌   💠 🔹 🔿	- 🗈 ն	l 🔏 🔂  📾
Name ^ Ext	Size	Туре	Change	/home/ircadmin			
ð		Parent directory	22/01/2	Name - Ext		Sk	ze Changed
conf services	0% Copy	File Folder /ing	22/01/2	-	2×		20/01/2007
							20/01/2007
					Cancel		2/01/2007
Confirm	1						01/2007
							/01/2007
2	Remote file 'unreal	ircd.conf already e	xists. Overwr	ite?			/01/2007
2	New: 1	1285 bytes, 22/01/	2007 9:49:4	2 PM			/01/2007 /01/2007
?	New: 1		2007 9:49:4	2 PM			/01/2007 /01/2007 /01/2007 /01/2007
-	New: 1 Existing: 1	1285 bytes, 22/01/ 1285 bytes, 22/01/	/2007 9:49:4 /2007 9:49:4	2 PM 2 PM			/01/2007 /01/2007 /01/2007 /01/2007 /01/2007
2	New: 1 Existing: 1	1285 bytes, 22/01/	2007 9:49:4	2 PM 2 PM	y No to All	Yes to A	/01/2007 /01/2007 /01/2007 /01/2007 /01/2007
-	New: 11 Existing: 11 : <u>s N</u> o	1285 bytes, 22/01/ 1285 bytes, 22/01/ Cancel	/2007 9:49:4 /2007 9:49:4	2 PM 2 PM	y No to All	Yes to A	/01/2007 /01/2007 /01/2007 /01/2007 /01/2007 /01/2007 /01/2007
-	New: 1 Existing: 1	1285 bytes, 22/01/ 1285 bytes, 22/01/ Cancel	/2007 9:49:4 /2007 9:49:4	2 PM 2 PM	y N <u>o</u> to All		/01/2007 /01/2007 /01/2007 /01/2007 /01/2007 /01/2007 /01/2007 /01/2007
-	New: 11 Existing: 11 : <u>s N</u> o	1285 bytes, 22/01/ 1285 bytes, 22/01/ Cancel	/2007 9:49:4 /2007 9:49:4	2 PM 2 PM	y N <u>o</u> to All	86	01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007
	New: 11 Existing: 11 ss <u>N</u> o	1285 bytes, 22/01/ 1285 bytes, 22/01/ Cancel	/2007 9:49:4 /2007 9:49:4 	2 PM 2 PM end Ne <u>w</u> er on!	y N <u>o</u> to All	86	01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 51 20/01/2007 54 20/01/2007
	New: 11 Existing: 11 ss <u>N</u> o	1285 bytes, 22/01/ 1285 bytes, 22/01/ Cancel again	/2007 9:49:4 /2007 9:49:4 	2 PM 2 PM end Ne <u>w</u> er on	y N <u>o</u> to All	86 16 6,04	01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 51 20/01/2007 54 20/01/2007 53 20/01/2007
-	New: 11 Existing: 11 ss <u>N</u> o	1285 bytes, 22/01/ 1285 bytes, 22/01/ Cancel again	/2007 9:49:4 /2007 9:49:4 	2 PM 2 PM end Ne <u>w</u> er on	y N <u>o</u> to All	86 16 6,04 92	01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 01/2007 51 20/01/2007 54 20/01/2007 53 20/01/2007 53 20/01/2007 54 20/01/2007 54 20/01/2007 55 20/01/2007 56 20/01/2007 57 20/01/2007 50 50/01/2007 50 50/01/2007 50 50/01/2007 50 50/01/2007 50 50/01/2007 50 50/01/2007 50 50/01/2007 50 50/01/2007 50 50/01/2007
	New: 11 Existing: 11 ss <u>N</u> o	1285 bytes, 22/01/ 1285 bytes, 22/01/ Cancel again	/2007 9:49:4 /2007 9:49:4 	2 PM 2 PM end Ne <u>w</u> er on!	y <u>No</u> to All	86 16 6,04	/01/2007 : /01/2007 :

### After that type

cd /home/ircadmin

chown -R ircadmin:ircadmin ./

#### to set all the files over to the *ircadmin* user / group.

Open up a new terminal window and log in as *ircadmin* user / password. Then type

cd conf/
ln -s \$(pwd)/unreal ~/bin/unreal
cd/bin
ls -al

#### The output should look like this:

```
total 1928
  drwxr-xr-x 2 ircadmin ircadmin 4096 2007-01-20 23:02 .
  drwxr-xr-x 10 ircadmin ircadmin 4096 2007-01-20 22:32 ..
  -rwx----- 1 ircadmin ircadmin 1959302 2007-01-20 22:20 ircd
  lrwxrwxrwx 1 ircadmin ircadmin 26 2007-01-20 23:02 unreal -> /home/ircadmin/conf/unreal
  ircadmin@dhcppc2:~/bin>
```

### Step 5

ircadmin@dhcppc2:~/bin> ./unreal start

#### The output should look like this:

Starting UnrealIRCd

http://www.howtoforge.com/

How To Set Up An IRC Server And Anope IRC Services

| | | | '\_ | '\_\_/ \_ / \_` | | | | | / | / / \_` | \_\_\_/|\_| |\_|\_| \_\_\_/\_\_/\_| \_\_/ \_\_/ \_\_/ v3.2.6 using TRE 0.7.2 (GPL) using OpenSSL 0.9.8d 28 Sep 2006 using zlib 1.2.3 \* Loading IRCd configuration ..

- \* Configuration loaded without any problems ...
- \* Initializing SSL.

\* Dynamic configuration initialized .. booting IRCd.

-----

```
ircadmin@dhcppc2:~/bin>
```

Open up an IRC client and try to connect to the servers IP address (like 192.168.1.102).

You will get something like this if it's working:

```
* Connecting to 192.168.1.102 (6667)
-irc.zcworld-evil.mine.nu- *** Looking up your hostname...
-irc.zcworld-evil.mine.nu- *** Couldn't resolve your hostname; using your IP address instead
«(~ Welcome to the zcworld IRC Network Zc_Au!Zcworld@192.168.1.101 ~)»
«(~ Your host is irc.zcworld-evil.mine.nu, running version Unreal3.2.6 ~)»
«(~ server was Created This server was created Sat Jan 20 2007 at 23:12:19 CST
«(~ Info ~)
Local host: server (192.168.1.101)
«(~ Current Server User Statistics for zcworld ~)»
«(~ There are 1 users and 0 invisible on 1 servers ~)»
«(~ Local Users Current Local Users: 1 Max: 1 ~)»
«(~ Global Users Current Global Users: 1 Max: 1 ~)»
MOTD File is missing
```

#### Once it's working type in

su -	
Password:	
cd /home/zcworld/src/	
find .  grep -i cron	

#### The output will look like this:

#### ./Unreal3.2/ircdcron

- ./Unreal3.2/ircdcron/ircdchk.in
- ./Unreal3.2/ircdcron/CVS
- ./Unreal3.2/ircdcron/CVS/Tag
- ./Unreal3.2/ircdcron/CVS/Entries
- ./Unreal3.2/ircdcron/CVS/Repository
- ./Unreal3.2/ircdcron/CVS/Root
- ./Unreal3.2/ircdcron/ircdchk
- ./Unreal3.2/ircdcron/ircd.cron

#### Find the *ircdchk* file, then type:

cp ./Unreal3.2/ircdcron/ircdchk ~ircadmin/bin/

cd ~ircadmin/bin

chown ircadmin:ircadmin ircdchk

cd ~ircadmin/bin

crontab -e

Type in the window that pops up (push the insert key):

# this is to check the server every 2 mins
\*/2 \* \* \* \* /home/ircadmin/bin/ircdchk >/dev/null 2>&1

Then push the esc key once or twice, then :wq

crontab: installing new crontab

Type

crontab -1

Now that's the IRC server itself. Time for the Anope IRC services. What's the point of an IRC server without the services unless your linking into an network with services then ... you are all good to go :) ...

### Step 6

Anope IRC services:

su

password cd /home/zcworld/src/anope-1.6.5/ ./configure

\*\*\*\* This is a screen dump for me when I did my config / install: \*\*\*

Anope is a set of IRC Service expanded upon Lara's Epona, based on Andy Church's IRC Services. For all your Anope needs please visit our portal at http://www.anope.org/

Please read the INSTALL file for install/upgrade instructions. Reading the FAQ and README files would be a good idea too. (all documentation is located on directory 'docs').

Beginning Services configuration.

Note: press Return for the default, or enter a new value. In what directory do you want the binaries to be installed? [/root/services] /home/ircadmin/services /home/ircadmin/services does not exist. Create it? [y]

Where do you want the data files to be installed? [/home/ircadmin/services]

Which group should all Services data files be owned by? (If Services should not force files to be owned by a particular group, just press Return.)

```
[]
```

What should the default umask for data files be (in octal)? (077 = only accessible by owner; 007 = accessible by owner and group) [077]

Select the closest to the type of server on your IRC network:
1) DreamForge 4.6.7 [dated IRCd, upgrade to a current one]
2) Bahamut 1.4.27 [or later]
3) UnrealIRCd 3.1.1 [or later]
4) UltimateIRCd 2.8.2 [or later]
5) UltimateIRCd 3.0.0 [alpha26 or later]
6) Hybrid IRCd 7.0 [experimental]
7) ViagraIRCd 1.3.x [or later]
8) PTlink 6.15.0 [experimental]
[no default]

Do you want to use the MD5 message-digest algorithm to encrypt passwords? (Selecting "yes" protects your passwords from being stolen if someone gains access to the Services databases, but makes it impossible to recover forgotten passwords. There is no way to reverse this operation, so make sure you really want to enable it.) [no]

Do you want to compile Anope with threading support? If you want to use the proxy detector, you MUST have this. If you get compilation errors, you should disable this feature and try again. [no]

Do you want to compile Anope with MySQL support? At this time Anope is able to dump all databases into MySQL. That means you get a read-only copy of the data. If you plan to run any module that uses MySQL, you should enable this option as well. [no]

Do you want to compile Anope with Module support? This will allow you to load and unload external modules of code without restarting services. You can find several Anope modules on our website. This requires libdl, if you have problems compiling disable this option.

```
(this option is ignored on OpenBSD for the time being) [no]
```

Where do you want the modules installed? (The trailing / is important) [/home/ircadmin/services/modules/] /home/ircadmin/services/modules /home/ircadmin/services/modules does not exist. Create it? [y]

End of interactive configuration.

Searching for a suitable compiler... great, found qcc! Testing default compiler flags (-02)... looks good. Let's see what libraries are lying around... -Insl -Iresolv has RTLD\_LOCAL Looking for OS specific needs... Looking for a 16-bit integer type... short Looking for a 32-bit integer type ... int Checking for presence of include files (it's okay if some aren't there): strings.h... present svs/select.h... present sys/sysproto.h... not present Seeing if your system defines int16/int32... not found (this is good). How to complain when something goes wrong... ah, strerror() is here. Looking for other routines we want that you don't have ... Checking how to install files... looks like "install" will work. Checking how to copy directories... /bin/cp -dpr Creating sysconf.h... done. Creating Makefile.inc... done. Saving configuration results in config.cache... done.

All done! Now run "make" (or possibly "gmake") to compile Services. See the INSTALL, README and FAQ files if you have any problems. dhcppc2:/home/zcworld/src/anope-1.6.5 #

make

touch services.h (cd lang; make language.h) make[1]: Entering directory `/home/zcworld/src/anope-1.6.5/lang' Generating language.h... 1410 strings make[1]: Leaving directory `/home/zcworld/src/anope-1.6.5/lang' cp -p lang/language.h . touch pseudo.h sh version.sh qcc -02 -Wall -q -c actions.c gcc -02 -Wall -g -c botserv.c gcc -02 -Wall -g -c channels.c gcc -02 -Wall -g -c chanserv.c qcc -02 -Wall -q -c commands.c gcc -02 -Wall -g -c compat.c gcc -02 -Wall -g -c converter.c qcc -O2 -Wall -q -c config.c qcc -O2 -Wall -q -c datafiles.c gcc -02 -Wall -g -c encrypt.c gcc -02 -Wall -g -c helpserv.c gcc -02 -Wall -g -c hostserv.c gcc -02 -Wall -g -c init.c gcc -02 -Wall -g -c language.c gcc -02 -Wall -g -c list.c qcc -O2 -Wall -q -c loq.c qcc -O2 -Wall -q -c mail.c qcc -O2 -Wall -q -c main.c

qcc -02 -Wall -q -c memory.c gcc -02 -Wall -g -c memoserv.c qcc -O2 -Wall -q -c messages.c qcc -O2 -Wall -q -c misc.c gcc -O2 -Wall -g -c modules.c gcc -02 -Wall -g -c news.c qcc -O2 -Wall -g -c nickserv.c nickserv.c: In function âload old ns dbaseâ: nickserv.c:479: warning: dereferencing type-punned pointer will break strict-aliasing rules qcc -O2 -Wall -q -c operserv.c gcc -02 -Wall -g -c process.c qcc -O2 -Wall -q -c protocol.c qcc -02 -Wall -q -c proxy.c qcc -O2 -Wall -q -c send.c gcc -02 -Wall -g -c sessions.c qcc -02 -Wall -q -c slist.c gcc -02 -Wall -g -c sockutil.c gcc -O2 -Wall -g -c timeout.c gcc -02 -Wall -g -c users.c gcc actions.o botserv.o channels.o chanserv.o commands.o compat.o converter.o config.o datafiles.o encrypt.o helpserv.o hostserv.o init.o language.o list.o log.o mail.o main.o memory.o memoserv.o messages.o misc.o modules.o news.o nickserv.o operserv.o process.o protocol.o proxy.o send.o sessions.o slist.o sockutil.o timeout.o users.o -lnsl -lresolv -rdynamic -o services -1d1 (cd lang; make CFLAGS=" -02 -Wall -g") make[1]: Entering directory `/home/zcworld/src/anope-1.6.5/lang' gcc -02 -Wall -g langcomp.c -o langcomp ./langcomp cat.l ./langcomp de.l ./langcomp en us.l ./langcomp es.l ./langcomp fr.l ./langcomp gr.l ./langcomp nl.1

./langcomp pt.l ./langcomp tr.l ./langcomp it.l ./langcomp ru.l make[1]: Leaving directory `/home/zcworld/src/anope-1.6.5/lang' All done! Now run "make" (or possibly "gmake") to compile your modules. See the INSTALL, README and FAQ files if you have any problems. make[1]: Entering directory `/home/zcworld/src/anope-1.6.5/modules' gcc -02 -Wall -g -c hs\_moo.c gcc -02 -Wall -g -c ircd\_catserv.c make[1]: Leaving directory `/home/zcworld/src/anope-1.6.5/modules' Now run "make install" to install Services. dhcppc2:/home/zcworld/src/anope-1.6.5 #

#### make install

(cd lang; make CFLAGS=" -02 -Wall -g") make[1]: Entering directory `/home/zcworld/src/anope-1.6.5/lang' make[1]: Nothing to be done for `all'. make[1]: Leaving directory `/home/zcworld/src/anope-1.6.5/lang' install -m 700 services /home/ircadmin/services/services rm -f /home/ircadmin/services/listnicks /home/ircadmin/services/listchans In /home/ircadmin/services/services /home/ircadmin/services/listnicks In /home/ircadmin/services/services /home/ircadmin/services/listchans (cd lang ; make install) make[1]: Entering directory `/home/zcworld/src/anope-1.6.5/lang' mkdir -p /home/ircadmin/services/languages chmod 700 /home/ircadmin/services/languages cp cat de en\_us es fr gr nl pt tr it ru /home/ircadmin/services/languages chmod 600 /home/ircadmin/services/languages/\* make[1]: Leaving directory `/home/zcworld/src/anope-1.6.5/lang' /bin/cp -dpr data/\* /home/ircadmin/services

```
test -d /home/ircadmin/services/backups || mkdir /home/ircadmin/services/backups
test -d /home/ircadmin/services/logs || mkdir /home/ircadmin/services/logs
make[1]: Entering directory `/home/zcworld/src/anope-1.6.5/modules'
ld -shared hs_moo.o -o hs_moo.so
ld -shared ircd_catserv.o -o ircd_catserv.so
/bin/cp -dpr ./*.so /home/ircadmin/services/modules
make[1]: Leaving directory `/home/zcworld/src/anope-1.6.5/modules'
```

Don't forget to create/update your services.conf file! See the README for details.

```
dhcppc2:/home/zcworld/src/anope-1.6.5 #
```

Ok now it's time to reset the access rights. Type

cd ~ircadmin/

chown -R ircadmin:ircadmin ./

## Step 7

Ok now it's time to copy the demo files for the service over. Just copy over the service folder and replace any files that it asks to replace. Then go back to your ircadmin window and type in:

cd ../services/

./services

Now in the IRC client window type:

/oper zcworld zcworld

That will let you see if there are any errors or not (but the two services should auto connect :)).

Type

/msg nickserv help

To see if thats displays anything. If so .. it gives you the normal help info then it works.

That's the basic of setting a server and services up and running.

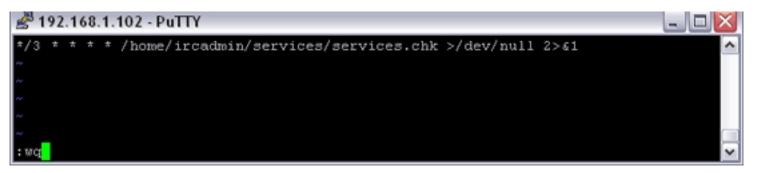
One last step to do: in your ircadmin terminal window type:

crontab -e

\*\* Push the insert key \*\* - copy !!!

\*/3 \* \* \* \* /home/ircadmin/services/services.chk >/dev/null 2>&1

Push the esc key two times than :wq.



\*\*\*

I used on my Windows PC Context to edit the .conf files and to change a lot of lines at once like from zcworld-evil.mine.nu to yoursite.au.

And just for fun change the password:

password: opername:

/oper zcworld / zcworld

To restart:

/restart restart

and to die the server it's:

/die die

(to restart / die you gotta be oper user. :))

\*\*\*\*\*

When you make changes to the .conf files on the server type in the IRC client when you are oper status:

/rehash

to reload the conf file.

#### DO NOT USE THAT PASSWORD IN my .CONF FILES ON A REAL IRC SERVER!

Do not ask me how to link two servers up, because I don't know yet and I've been working on it for 3 hrs ...... Gotta wait for a while to find out some info.

Bigs thanks to Craz1 for his help

and checking my conf files for me ...

and grandad (just a screen name) for his help as well :) to test the server :)