




# Never leave an IRC channel again with ZNC



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# What is IRC?

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- Online chat protocol in existence since 1988
- Large network of chat rooms (#channels)
  - Often used with web chat clients
  - Most commonly used with IRC client (e.g. HexChat)
- Popular networks are often hubs for different kinds of communities
  - freenode: ~99,000 users connected at peak hours
  - Projects on freenode: Ubuntu, Fedora, Perl, SELinux... FOSS loves freenode
    - #ritlug, #rit-foss
- Your digital life is incomplete without IRC

# Do people live in IRC?

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- *Context:* The same group of people idling in the same IRC channels every time you connect
  - Answer: No (usually)
- Popular solution is an IRC “bouncer” (a.k.a. proxy)
- ZNC is open-source IRC bouncer in C++
  - <https://github.com/znc/znc>
- **Without ZNC:** *chat.freenode.net*
- **With ZNC:** *znc.mysite.com => chat.freenode.net*

# How do I get it?

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- Unless you use an obscure distro, check your distro's repos (probably is packaged)
  - Fedora: `sudo dnf install znc`
  - RHEL, CentOS: `sudo yum install znc`
  - Ubuntu, Debian, other Debian-based distros: `sudo apt-get install znc`
  - Arch: Ask Nate
- Package manager will take care of the details for you
- Also possible to compile and build from source

# Doing the prep work

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- The extensive, laborious, difficult prep work for getting your system to handle the firewall is...
- **Adjusting your firewall**
  - CentOS/RHEL 7 or later, Fedora, Arch(?):
    - `sudo firewall-cmd --add-port=6697/tcp`
    - `sudo firewall-cmd --runtime-to-permanent`
  - CentOS/RHEL 6 or earlier, Debian, Ubuntu, etc.:
    - `sudo iptables -A INPUT -p tcp --dport 6697 -j ACCEPT`
    - `sudo service iptables save`

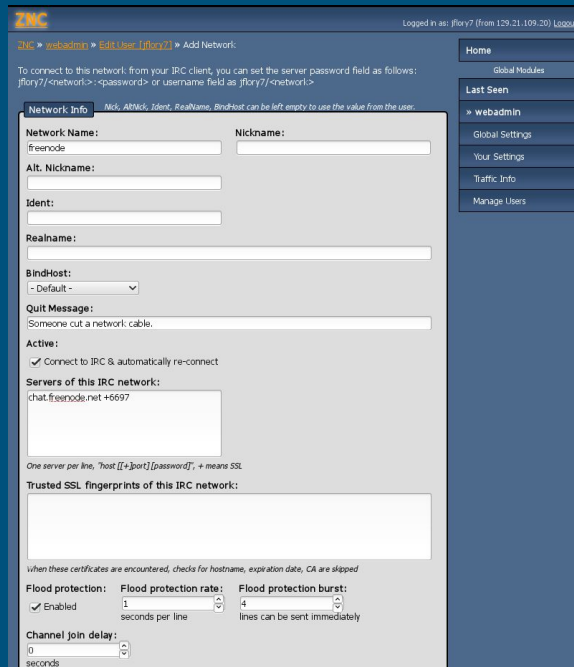
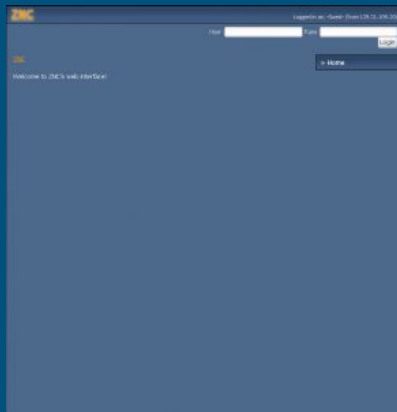
# Configuring ZNC

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- Initial configuration in CLI
  - `sudo -u znc znc --makeconf`
- Will begin prompting you for basic configuration information
  - Usually the defaults are fine
- Example: [Fedora Magazine](#)

# Using the web panel

- After configuration, ZNC will launch immediately
  - `http(s)://<server_ip>:<your_port>`
  - If you opted to use SSL, *must* include https



# Final steps

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- If server ever reboots, you will want ZNC to restart itself
- Can be done with `systemd` or `chkconfig`
  - CentOS/RHEL 7 or later, Fedora, Arch(?): `sudo systemctl enable znc`
  - CentOS/RHEL 6 or earlier, Ubuntu, Debian, etc.: `sudo chkconfig znc on`



# Setting up HexChat

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- Numerous IRC clients, it's all personal preference - find one that you look
  - Example uses HexChat because it is one of the most well-known and popular ones
- Instead of connecting to IRC network, connect to your bouncer
  - `irc.freenode.net => mysupercoolbouncer.example.com`
- Detail of note: **Server Password**
  - To connect to ZNC, server password required
  - Generally formatted as: `username/network:password`
    - *Example:* `jflory7/freenode:SomeW1ttyPassw0rd`
- Reference [ZNC wiki](#) for help

# A HexChat window

- Yours should look similar
- Note accepting invalid SSL certificates
  - If you use SSL, you are using a self-signed certificate - this is safe but a necessary step because it is self-signed
  - Also note the + before the port: denotes SSL

HexChat: Edit ZNC Test

my.bouncer.com/+6697

Add Remove Edit

Servers Autojoin channels Connect commands

☐ Connect to selected server only

☒ Connect to this network automatically

☐ Bypass proxy server

☒ Use SSL for all the servers on this network

☒ Accept invalid SSL certificates

☒ Use global user information

Nick name:

Second choice:

Real name:

User name:

Login method: Server Password (/PASS password) ▼

Password:

Character set: UTF-8 (Unicode) ▼

Close

# Congratulations, you are now ZNC Certified!

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- Credit: [Fedora Magazine](#)
  - Read my other work: [fedoramagazine/author/jflory7](https://fedoramagazine.org/author/jflory7/)