Demonsaw Overview

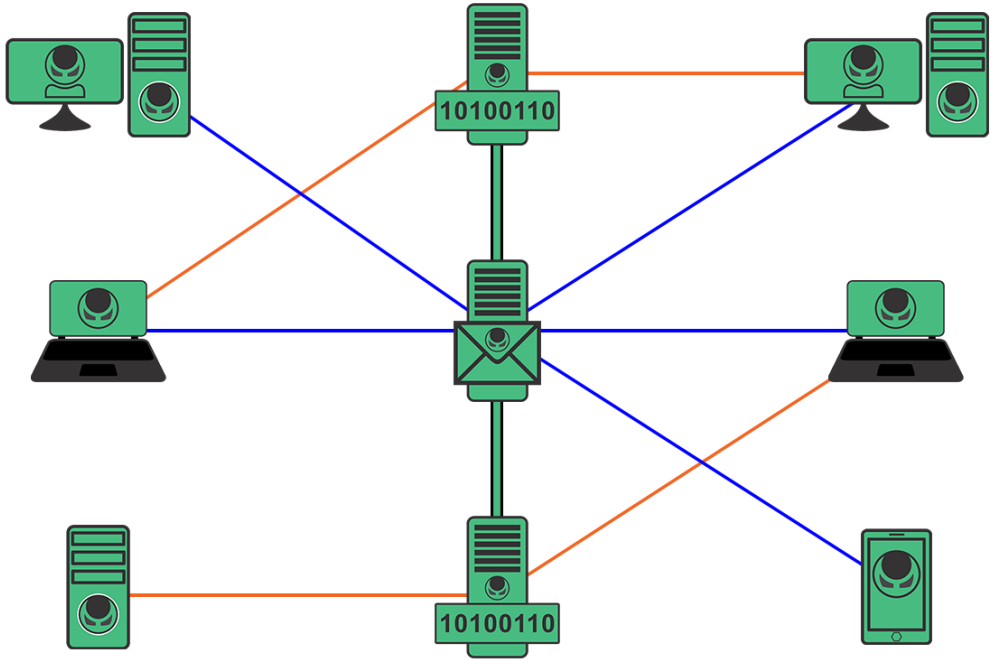
- all communication is encrypted
- no logging, client side or router side
- routers handle all communication between clients (No P2P)
- communication is TCP and makes every attempt to look like regular HTTP traffic

Demonsaw Network Basics

Demonsaw routers are flexible enough to arrange your network in a manner of different layouts, and offer different features.

- 1 message router that handles chat, browse, search, data
- 1 message router that handles chat, browse and search, but with data going through transfer routers
- message router can have any of chat, browse, search, transfer, and public group disabled

BASIC DEMONSAW NETWORK



ENCRYPTED MESSAGE TRAFFIC
ENCRYPTED DATA [FILE] TRAFFIC
ENCRYPTED TRANSFER REQUEST

STANDARD CLIENT STANDARD CLIENT

HEADLESS CLIENT CLI
DATA TRANSFER ONLY
NO MESSAGES

PHONE CLIENT
MESSAGES ONLY
NO DATA TRANSFER

MESSAGE ROUTER
[NETWORK HUB]
NO DATA TRANSFER
NO DATA STORAGE
NO LOGGING

DATA ROUTER
DATA TRANSFER ONLY
NO DATA STORAGE
NO LOGGING

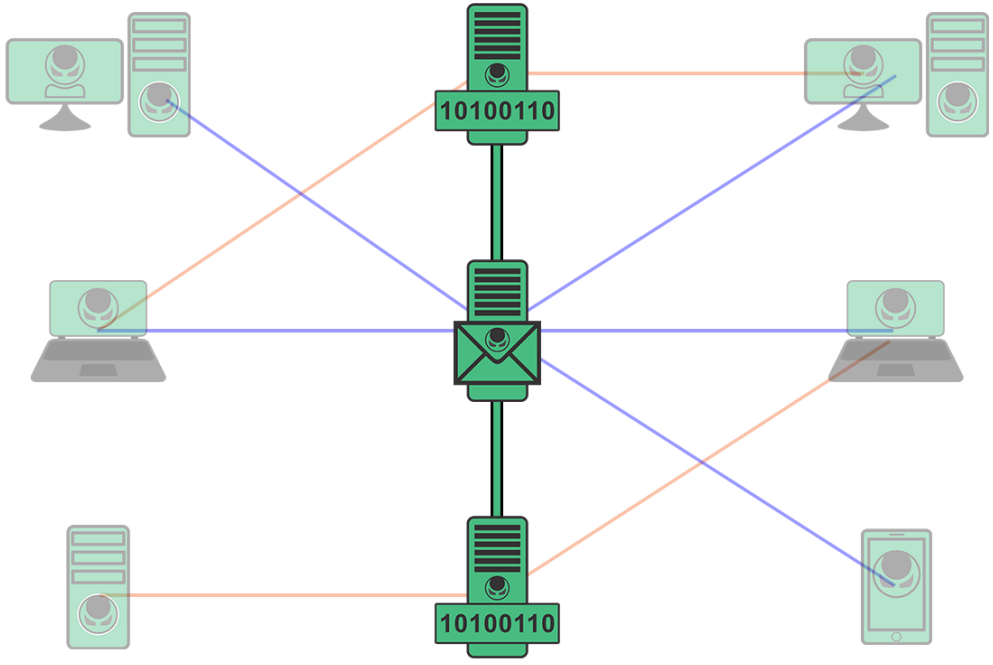
THIS DOES NOT REFLECT ALL POSSIBLE NETWORK TOPOGRAPHIES

Demonsaw Routers

Demonsaw routers, as mentioned above, can have any number of features enabled or disabled. You can also add transfer routers to a message router to distribute the bandwidth load of a larger network.

The next slide shows a message router with 2 transfer routers.

THE ROUTERS



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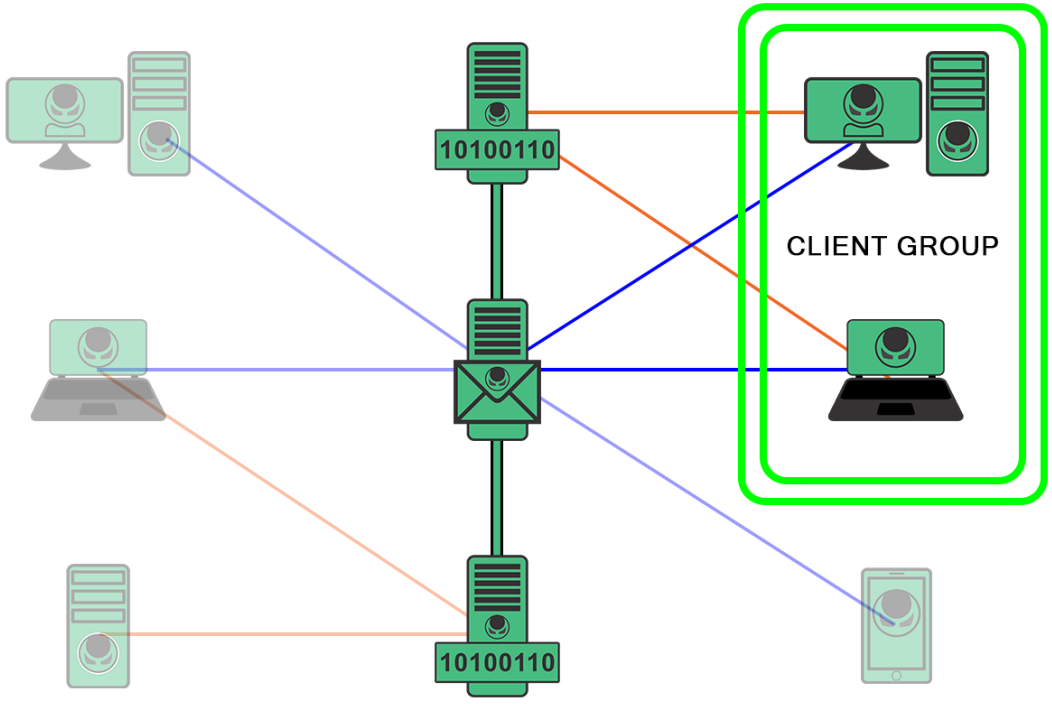
Social Cryptography & Groups

Social Cryptography is a way derive strong crypto based on shared knowledge such as files or websites, Demonsaw uses this for creating layers of crypto for groups within Demonsaw as well as to restrict access to routers (demonsaw 3)

Extra crypto layers created by groups on client side will allow you to be isolated from the public group on a message router, so that you can communicate and share with only those in your group.

CLIENT GROUPS



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Network MiTM & Sniffing

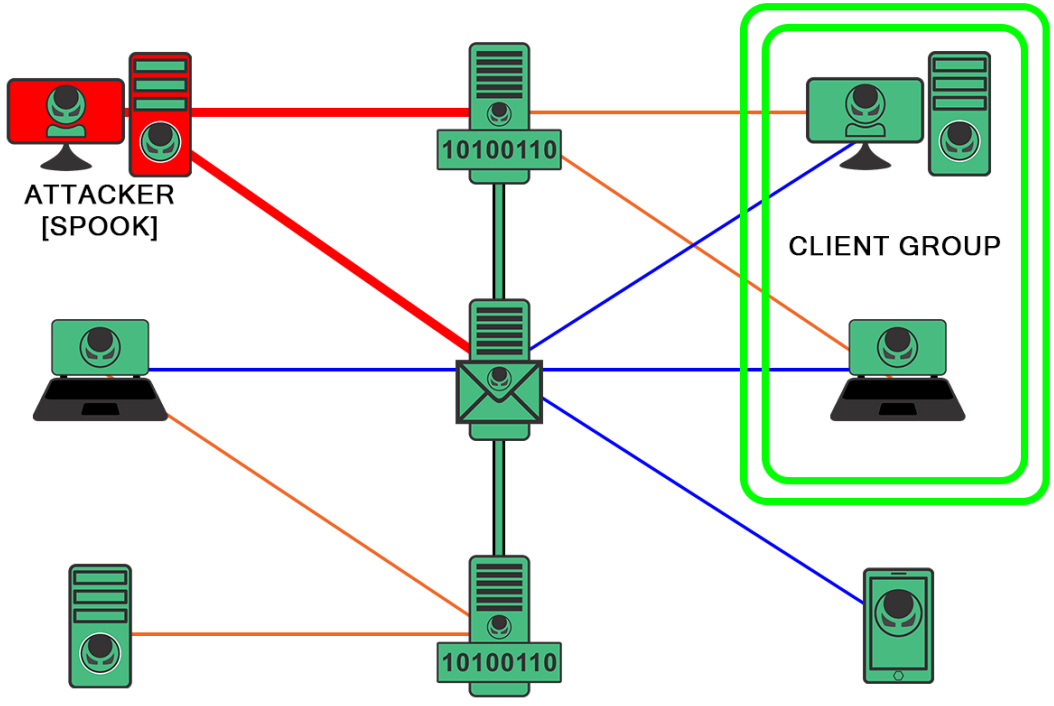
Demonsaw was designed so that you aren't required to trust the routers, that said.. You are offered the best protection when using a group to connect to a router.

Demonsaw 3 allows you to choose what transfer routers to trust

Strong cryptography prevents traffic sniffing, decryption, and replay attacks.

NETWORK SNIFFING/ATTACKS

PUBLIC NETWORK WITH PUBLICLY LISTED ROUTERS



ATTACKERS CONNECTION

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ENCRYPTED DATA [FILE] TRAFFIC

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