

quietly.cloud Infrastructure Documentation

qui3tly

January 2026

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1 quietly.cloud Infrastructure

Last Updated: 2026-01-17

Status: Production

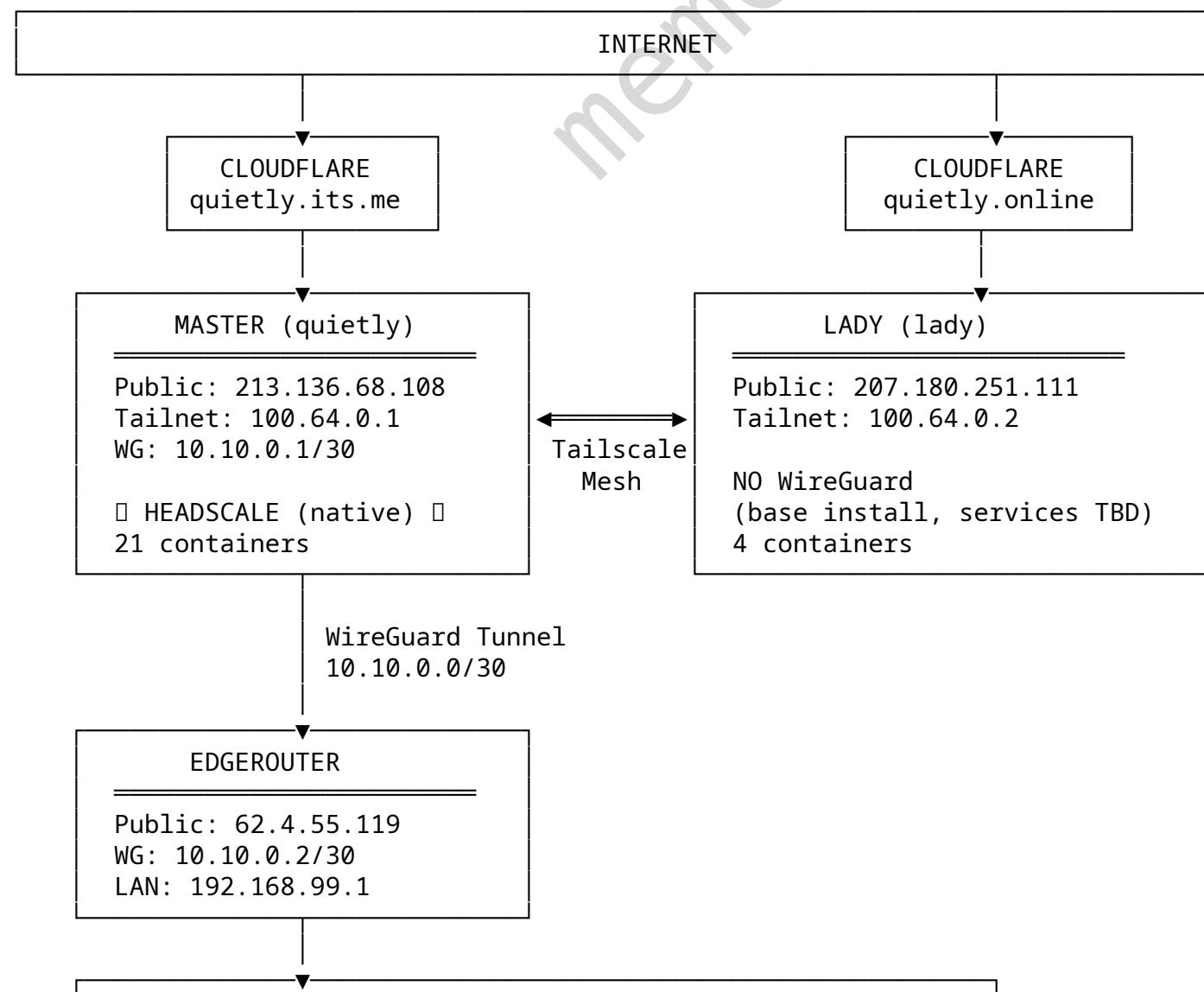
Partner: Lucky Luke ☺

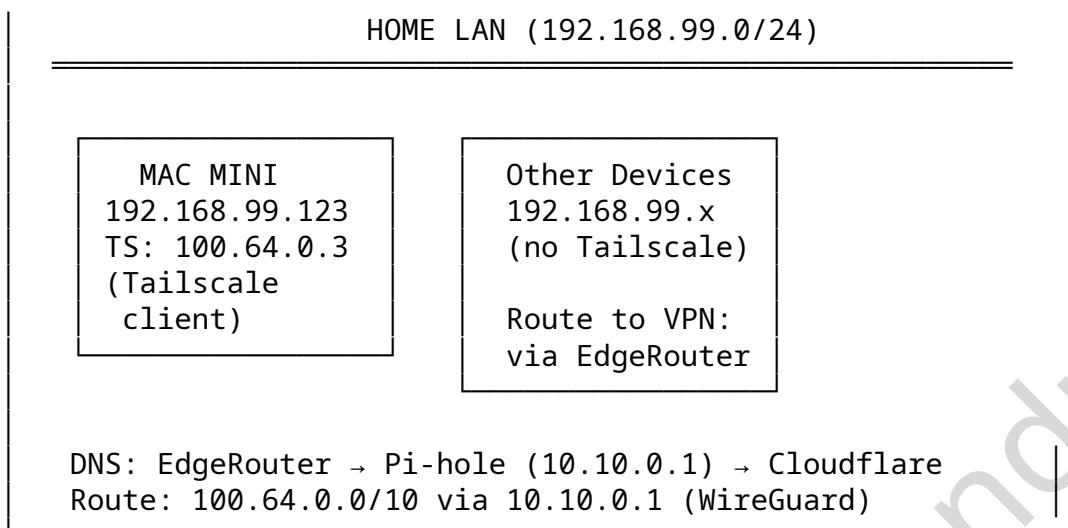
1.1 ☺ CRITICAL: DNS BOOTSTRAP (MASTER ONLY)

INCIDENT 2026-01-17: 363 crash restarts, 2 hours downtime

Master's /etc/resolv.conf MUST use 1.1.1.1 — NEVER MagicDNS (100.100.100.100). Headscale needs real DNS to fetch DERPMap on startup. File is **immutable** (chattr +i). See [NETWORK.md](#) for details.

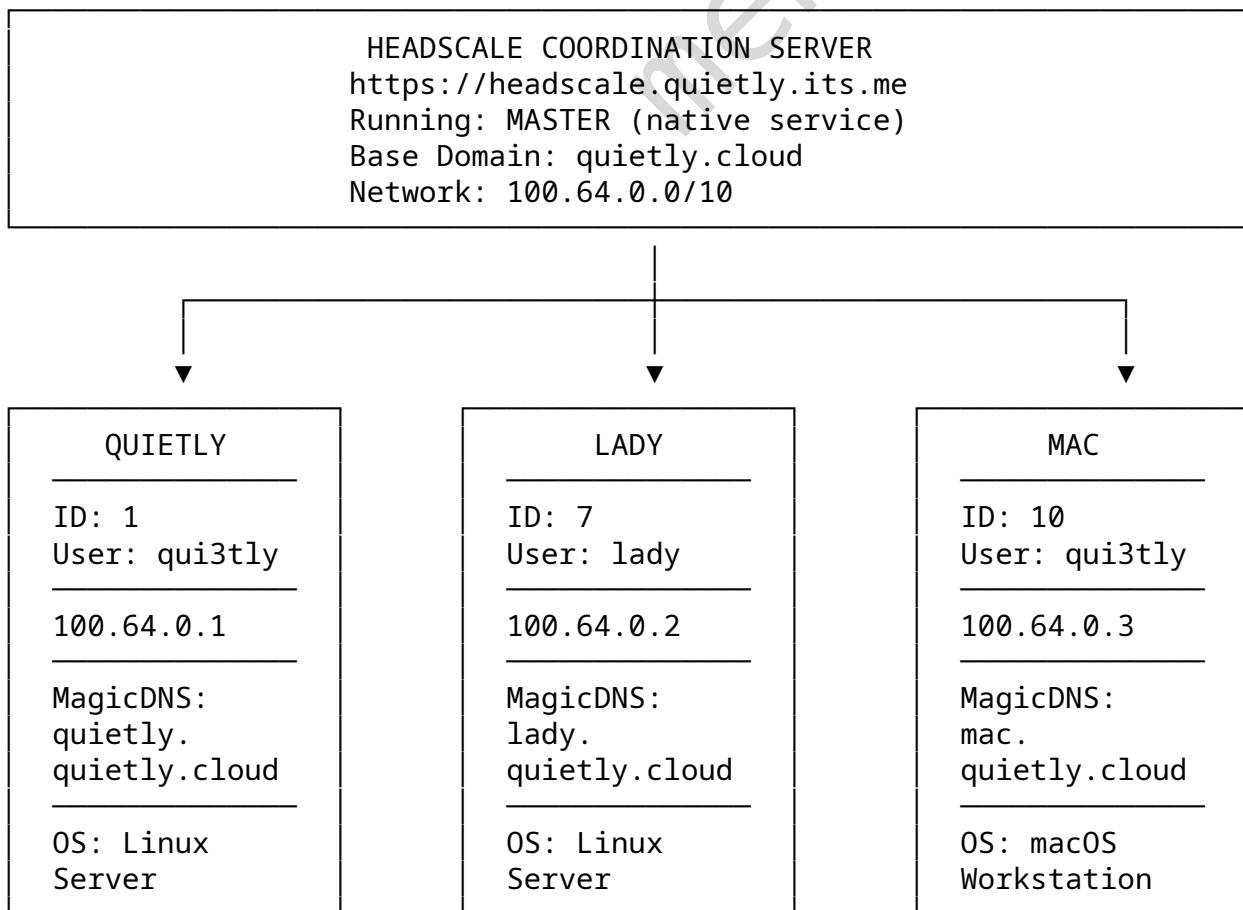
1.2 ☺ Network Architecture



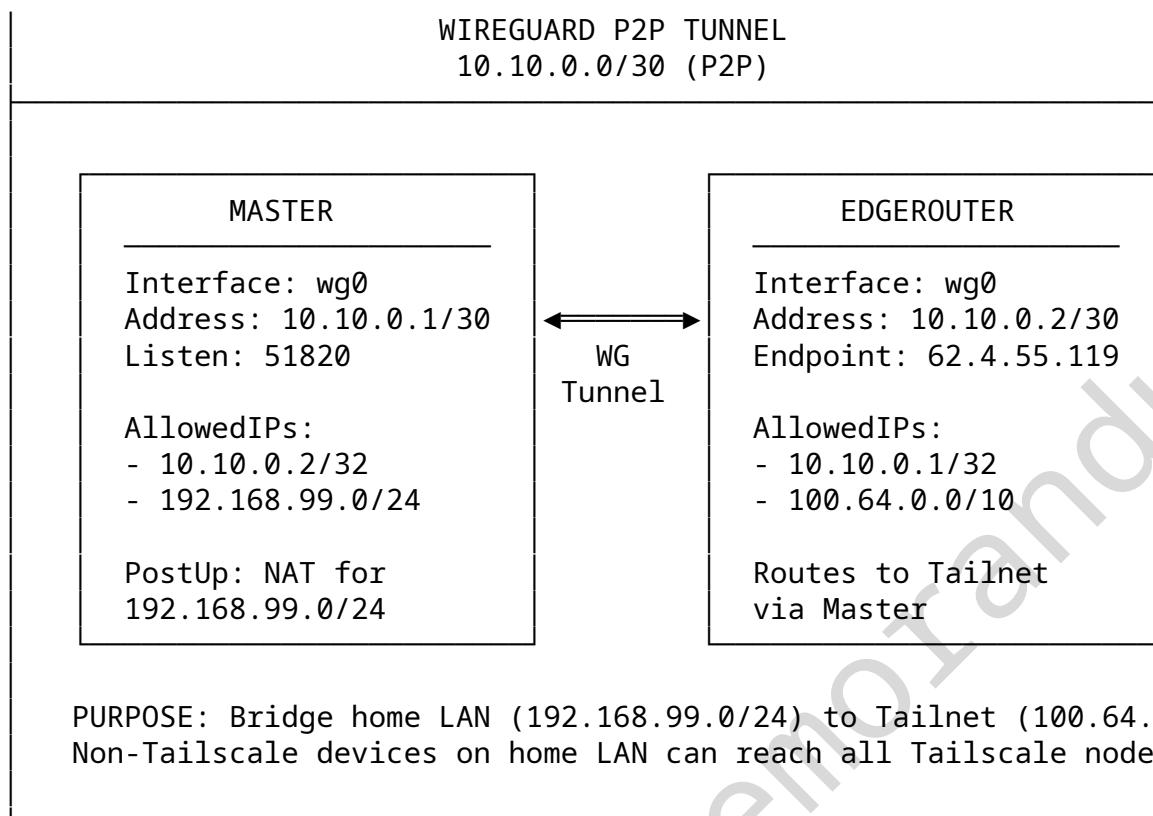


1.3 □ VPN Architecture

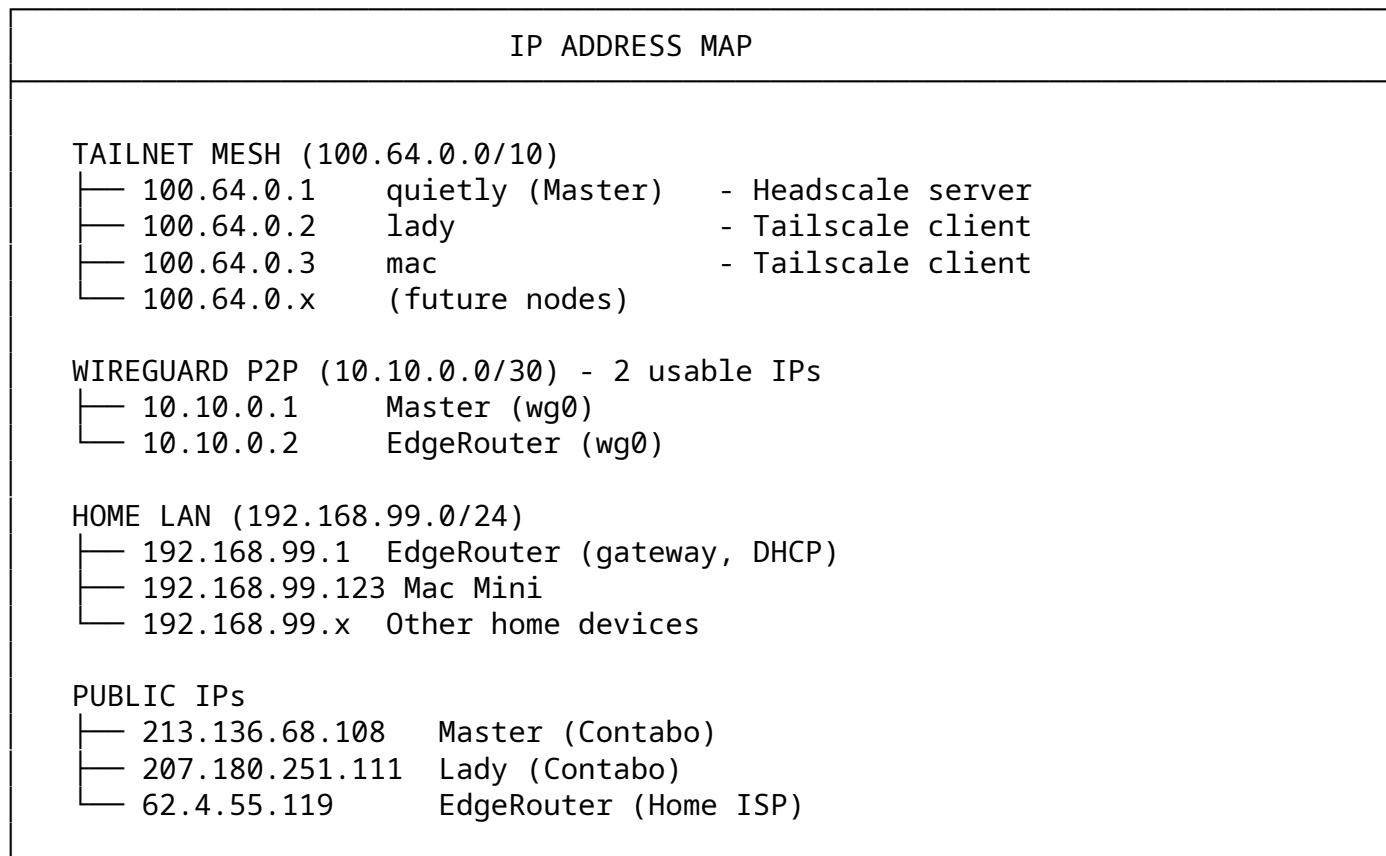
1.3.1 Headscale Mesh (Tailscale)



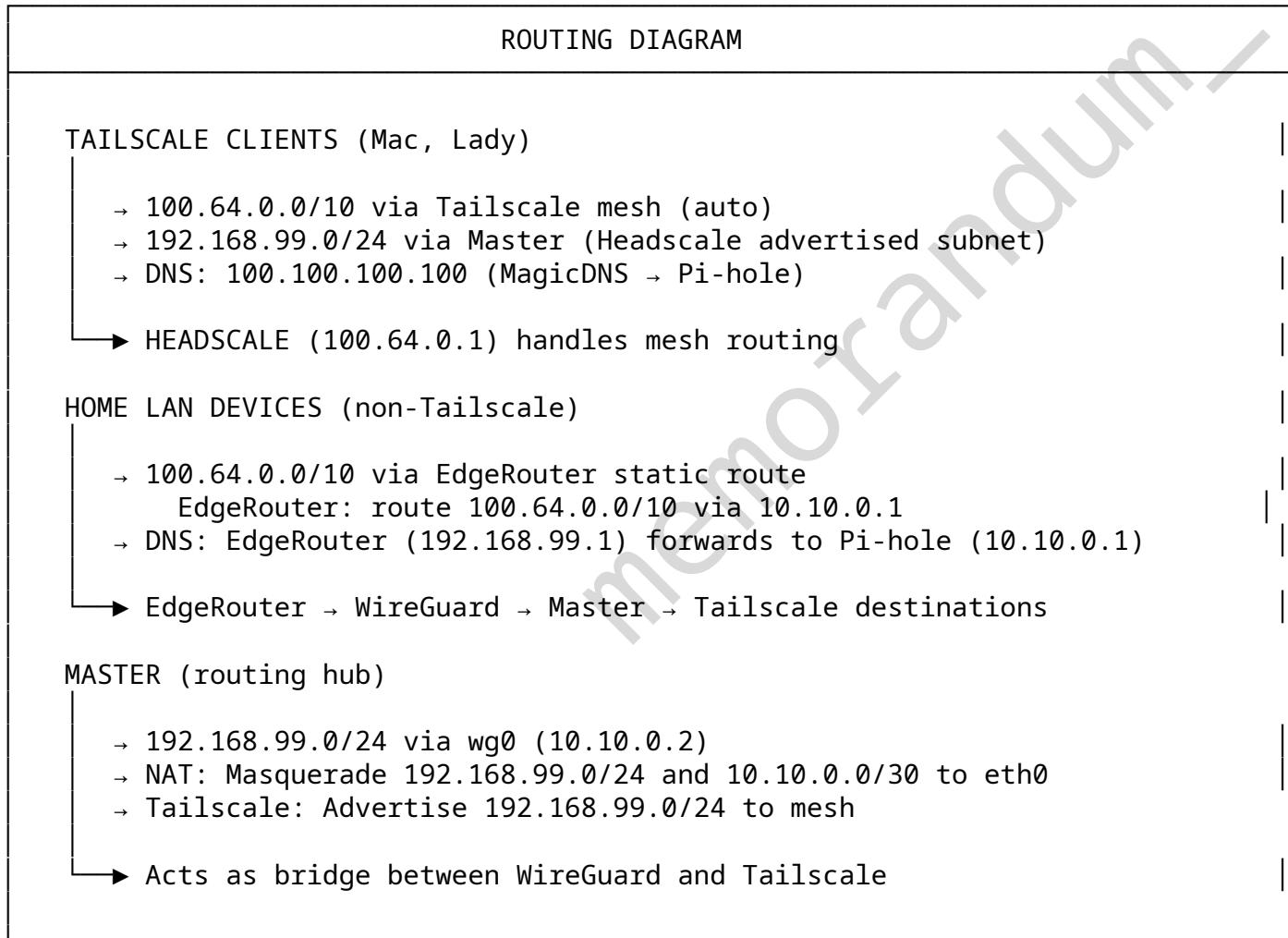
1.3.2 WireGuard Bridge (Master □ EdgeRouter)



1.4 IP Address Allocation



1.5 □ Routing Flow



1.6 □ Server Details

1.6.1 MASTER (quietly.its.me)

MASTER SERVER - quietly.its.me		
Provider: Contabo VPS	Location: Germany	OS: Debian 12
INTERFACES		
└ eth0: 213.136.68.108/24 (public, gateway: 213.136.68.1)		
└ tailscale0: 100.64.0.1 (Tailnet mesh)		
└ wg0: 10.10.0.1/30 (WireGuard to EdgeRouter)		

SSH ACCESS	
Port: 1006	
User: qui3tly	
Auth: Key only (quietly.its.me)	
 NATIVE SERVICES	
Headscale v0.27.1	VPN coordination server
Tailscale	Mesh client
WireGuard	Bridge to home LAN
fail2ban	Intrusion prevention
 CONTAINERS: 21 running	

1.6.2 LADY (quietly.online)

LADY SERVER - quietly.online		
Provider: Contabo VPS	Location: Germany	OS: Debian 12
 INTERFACES		
eth0: 207.180.251.111/18 (public, gateway: 207.180.191.1)		
tailscale0: 100.64.0.2 (Tailnet mesh)		
 NO WIREGUARD - connects via Tailscale only		
 SSH ACCESS		
Port: 1006		
User: qui3tly		
Auth: Key only (quietly.online)		
 NATIVE SERVICES		
Tailscale	Mesh client (connects to Master Headscale)	
fail2ban	Intrusion prevention	
 CONTAINERS: 25 running (18 Mailcow + 7 infra)		

1.6.3 MAC (mac.quietly.cloud)

MAC WORKSTATION - mac.quietly.cloud		
Device: Mac Mini	Location: Home	OS: macOS
 INTERFACES		
en0: 192.168.99.123 (home LAN, gateway: 192.168.99.1)		
utun: 100.64.0.3 (Tailnet mesh)		
 SSH ACCESS		

```
└── Port: 22  
└── User: qui3tly  
└── Auth: Key only (quietly-mac)
```

NOTE: This is a Tailscale CLIENT only
Home LAN routing is via EdgeRouter WireGuard, NOT via Mac

1.6.4 EDGEROUTER (Home Gateway)

EDGEROUTER - Home Gateway	
Device: Ubiquiti EdgeRouter	Location: Home
INTERFACES	
WAN:	62.4.55.119 (public, ISP)
LAN:	192.168.99.1/24 (home network gateway)
wg0:	10.10.0.2/30 (WireGuard to Master)
ROUTING	
100.64.0.0/10	via 10.10.0.1 (to Tailnet via Master)
0.0.0.0/0	via ISP (default route)
DNS FORWARDING	
Forwards to 10.10.0.1	(Pi-hole on Master via WireGuard)
PURPOSE: Bridge non-Tailscale home devices to Tailnet	

1.7 Container Distribution

1.7.1 MASTER Containers (21)

MASTER - quietly.its.me (21 containers)	
traefik (v3.6.6)	REVERSE PROXY ports: 80, 443
cloudflared (2024.12.2)	Cloudflare tunnel
SECURITY	
crowdsec (v1.6.8)	IDS/IPS
bouncer-traefik (0.5.0)	Traefik bouncer
authelia (4.39.15)	SSO/2FA
DNS/VPN	

pihole (2025.11.1)	DNS + Ad blocking
headscale (native)	VPN coordination (NOT Docker)
headscale-ui (2025.08.23)	Web UI
headscale-admin (0.26.0)	Admin panel

 MONITORING

prometheus (v2.54.1)	Metrics collection
grafana (11.4.0)	Dashboards
loki (3.3.2)	Log aggregation
alertmanager (v0.27.0)	Alerts
promtail (3.3.2)	Log shipping
node-exporter (v1.8.2)	System metrics
cadvisor (v0.51.0)	Container metrics

 ADMIN

portainer (2.33.6)	Container management
semaphore (v2.10.22)	Ansible UI
admin-panel (python)	Custom admin

 TOOLS

gotify (2.5.0)	Push notifications
it-tools (2024.10.22)	IT utilities
fuckoff-page (nginx)	Default page for unauthorized

1.7.2 LADY Containers (4 base, more pending)

LADY - quietly.online (4 base containers)

 INFRASTRUCTURE

traefik (v3.6.6)	Reverse proxy
crowdsec (v1.6.8)	IDS/IPS
bouncer-traefik (0.5.0)	Traefik bouncer
portainer_agent (2.33.6)	Managed by Master

 MONITORING AGENTS

node-exporter (v1.9.0)	→ Master Prometheus
cadvisor (v0.52.1)	→ Master Prometheus
promtail (3.4.2)	→ Master Loki

MAILCOW (18 containers)

CORE: postfix, dovecot, nginx, php-fpm, sogo

SECURITY: rspamd, clamd, olefy, netfilter
 DATA: mysql (mariadb:10.11), redis, memcached
 UTILS: unbound, acme, watchdog, dockerapi, ofelia,
 postfix-tlspol

1.8 ☐ Service URLs

1.8.1 Master (quietly.its.me) - VPN Only

Service	URL	Auth
Grafana	https://grafana.quietly.its.me	Authelia
Prometheus	https://prometheus.quietly.its.me	VPN-only
Portainer	https://portainer.quietly.its.me	Local
Semaphore	https://semaphore.quietly.its.me	Authelia
Pi-hole	https://pihole.quietly.its.me	Authelia
Headscale UI	https://headscale-ui.quietly.its.me	VPN-only
Headscale Admin	https://headscale-admin.quietly.its.me	VPN-only
IT-Tools	https://it-tools.quietly.its.me	Authelia
Gotify	https://gotify.quietly.its.me	API Key
Authelia	https://auth.quietly.its.me	Self

1.8.2 Lady (quietly.online) - Public

Service	URL	Auth
Mailcow Admin	https://mail.quietly.online	Local
Webmail (SOGO)	https://mail.quietly.online/SOGO	Mail creds

1.9 ☐ Port Map

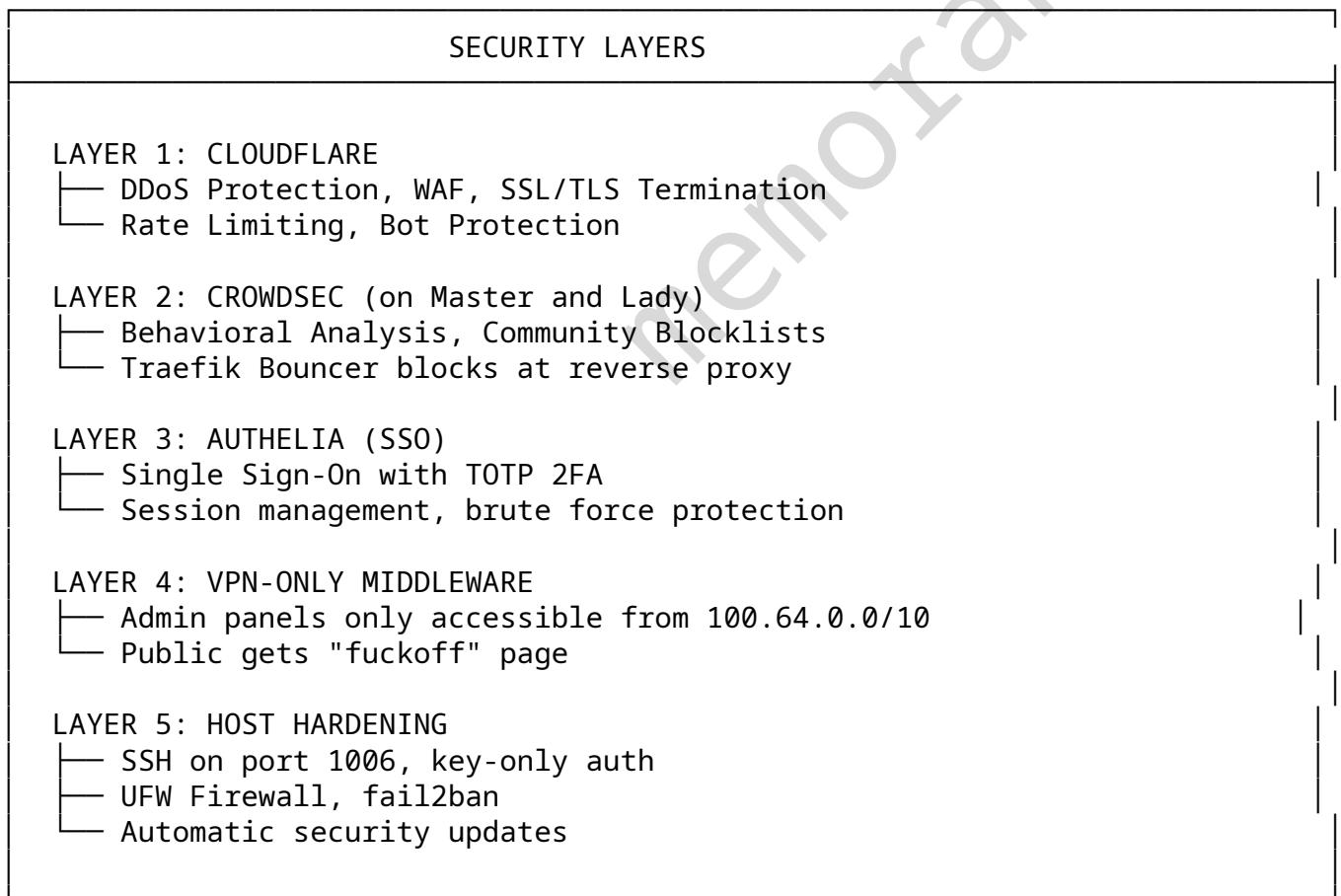
1.9.1 Master (213.136.68.108)

Port	Protocol	Service	Access
80	TCP	Traefik HTTP	Public (redirect)
443	TCP	Traefik HTTPS	Public
1006	TCP	SSH	Public
51820	UDP	WireGuard	EdgeRouter only
53	TCP/UDP	Pi-hole DNS	Tailnet + WireGuard
3478	UDP	Headscale DERP	Public

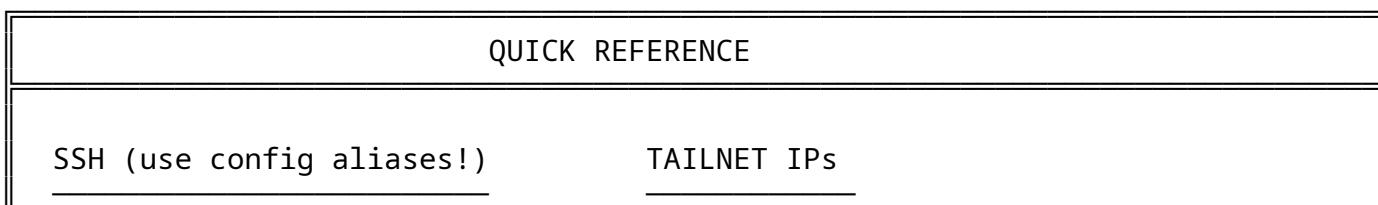
1.9.2 Lady (207.180.251.111)

Port	Protocol	Service	Access
80/443	TCP	Traefik	Public
1006	TCP	SSH	Public
25/465/587	TCP	SMTP	Public
993/995	TCP	IMAP/POP3	Public
4190	TCP	ManageSieve	Public

1.10 □ Security Architecture



1.11 □ Quick Reference Card



ssh lady → Lady:1006	100.64.0.1 Master
ssh quietly → Master:1006	100.64.0.2 Lady
ssh mac → Mac:22	100.64.0.3 Mac
<hr/>	
WIREGUARD (10.10.0.0/30)	PUBLIC IPs
10.10.0.1 Master	213.136.68.108 Master
10.10.0.2 EdgeRouter	207.180.251.111 Lady
	62.4.55.119 EdgeRouter
<hr/>	
DOMAINS	KEY URLs
*.quietly.its.me Master	grafana.quietly.its.me
*.quietly.online Lady	portainer.quietly.its.me
*.quietly.cloud MagicDNS	mail.quietly.online

Generated: 2026-01-16 | quietly.cloud infrastructure | □ Lucky Luke

2 Network Architecture

Last Updated: 2026-01-17

Architecture: Tailscale mesh + WireGuard bridge (NO OSPF)

2.1 □ CRITICAL: DNS BOOTSTRAP (MASTER ONLY)

INCIDENT 2026-01-17: 363 crash restarts, 2 hours downtime

Master's /etc/resolv.conf MUST use 1.1.1.1 — NEVER MagicDNS (100.100.100.100)

2.1.1 Why?

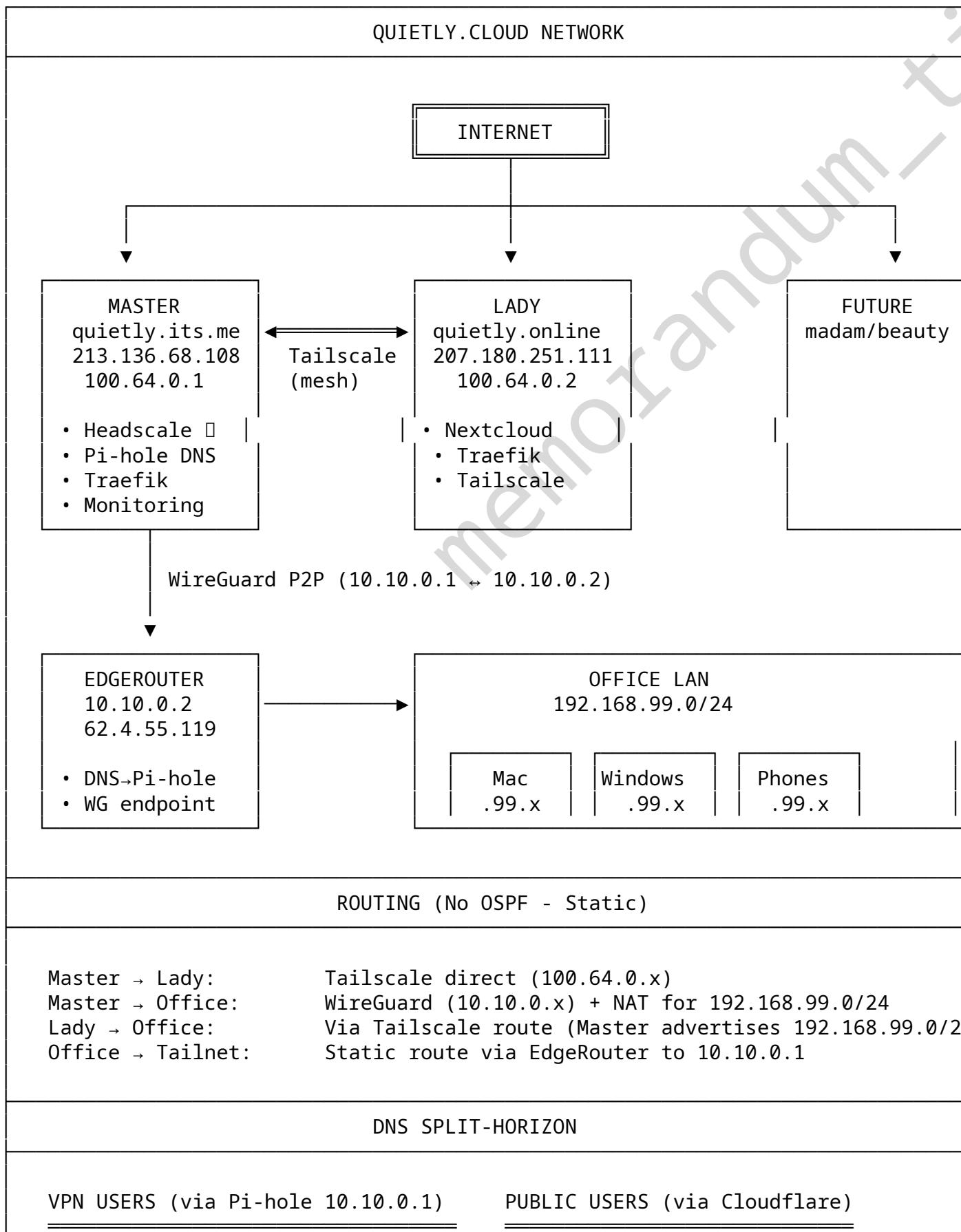
- Headscale needs real DNS to fetch DERPMap from controlplane.tailscale.com on startup
- MagicDNS (100.100.100.100) needs Headscale running to work
- Circular dependency** = Headscale crash loop on every boot

2.1.2 Protection

- /etc/resolv.conf is **immutable** (chattr +i) — DO NOT try to change it
- Systemd drop-ins enforce boot order: Headscale → Tailscale
- Files: /etc/systemd/system/headscale.service.d/dns-bootstrap.conf
- Files: /etc/systemd/system/tailscaled.service.d/after-headscale.conf

Lady and other nodes CAN use MagicDNS — they connect TO Headscale, not run it.

2.2 Overview Diagram



portainer.quietly.its.me → 100.64.0.1 portainer.quietly.its.me → 213.136.68.0 (direct VPN access) (Traefik → vpn-only middleware)

EdgeRouter DHCP: DNS = 10.10.0.1 (primary), 1.1.1.1 (fallback)

2.3 Servers

Server	Domain	Public IP	Tailnet IP	SSH Port	Role
Master	quietly.its.me	213.136.68.108	100.64.0.1	1006	Control plane, Headscale
Lady	quietly.online	207.180.251.111	100.64.0.2	1006	Worker
Madam	quietly.co.me	164.68.107.251	-	1006	Future
Beauty	qui3tly.com	84.247.176.135	-	1006	Future

2.4 Subnets

Subnet	Purpose	Notes
100.64.0.0/10	Tailnet (Headscale)	VPS mesh
10.10.0.0/30	WireGuard P2P	Master (.1) □ EdgeRouter (.2)
192.168.99.0/24	Office LAN	Routed via WireGuard
172.17-19.0.0/16	Docker networks	Internal

2.5 VPN Stack

2.5.1 Headscale (Native on Master)

Property	Value
URL	https://headscale.quietly.its.me
Port	8085 (Traefik □ 443)
Config	/etc/headscale/config.yaml
UI	https://headscale-ui.quietly.its.me
Admin	https://headscale-admin.quietly.its.me/admin/

2.5.2 WireGuard Bridge

Property	Value
Master	10.10.0.1 (wg0)
EdgeRouter	10.10.0.2
Port	51820/UDP
Purpose	Office LAN access only

2.6 DNS

2.6.1 Pi-hole Configuration

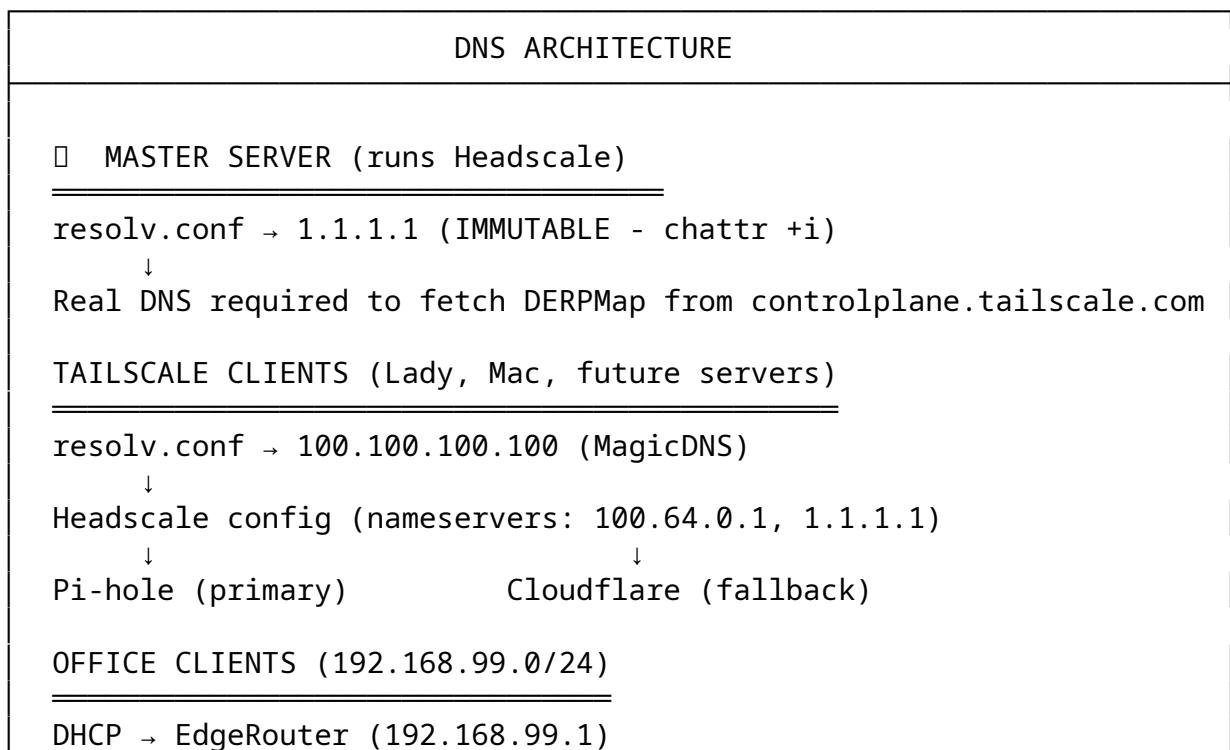
Interface	IP	Clients
Tailscale	100.64.0.1:53	VPN clients
WireGuard	10.10.0.1:53	Office via EdgeRouter

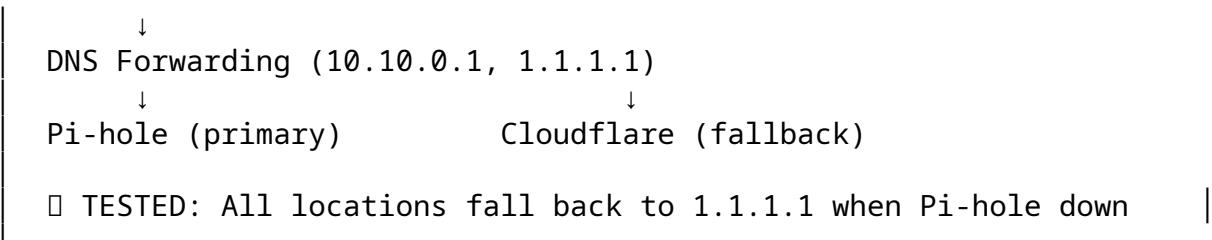
2.6.2 Split-Horizon Resolution

All *.quietly.its.me services resolve to **Tailnet IPs** (not WireGuard):

Domain	Resolves To	Server
*.quietly.its.me	100.64.0.1	Master (Tailnet)
lady.quietly.its.me	100.64.0.2	Lady (Tailnet)
External domains	Cloudflare DoH	Upstream

2.6.3 DNS Flow





2.6.4 Config Locations

- **Headscale DNS:** /etc/headscale/config.yaml (dns.nameservers.global)
 - **EdgeRouter DNS:** service dns forwarding name-server
 - **Pi-hole Custom:** ~/.docker/pihole/etc-dnsmasq.d/01-local-dns.conf
-

2.7 Firewall (Master UFW)

Port	Protocol	Source	Purpose
1006	TCP	Anywhere	SSH
80	TCP	Anywhere	HTTP □ HTTPS
443	TCP	Anywhere	Traefik
51820	UDP	Anywhere	WireGuard
41641	UDP	Anywhere	Tailscale
8085	TCP	172.18.0.0/16	Headscale (Docker□Native)

2.8 Office Exit via VPS

Toggle office internet exit via Master VPS or local ISP.

Script: ~/.copilot/scripts/office-exit.sh [on|off|status]

State	Default Route	Distance
ON (VPS)	10.10.0.1 via wg0	1 (best)
OFF (ISP)	10.153.0.1 via eth0	210 (fallback)

Safety: WireGuard endpoint 213.136.68.108/32 always routes via eth0 (local ISP), so tunnel can't break itself.

EdgeRouter Access: SSH port 1006, user qui3tly, password in ~/.secrets/edgerouter/password

2.9 Key Changes (2026-01-14)

Change	Old	New
Office Exit	ISP only	VPS toggle via office-exit.sh

Change	Old	New
DNS Resolution	Returns 10.10.0.1 (WG)	Returns 100.64.0.1 (Tailnet)
Pi-hole dnsmasq.d	etc_dnsmasq_d = false	etc_dnsmasq_d = true
Monitoring IPs	Fixed IPs per container	Dynamic Docker assignment
WireGuard P2P	/24 subnet	/30 subnet (proper P2P)
EdgeRouter DNS	ISP nameservers	Pi-hole + 1.1.1.1 fallback
vpn-only middleware	Included office public IP	VPN-only (removed 62.4.55.119)
DNS Fallback	Not tested	☐ Tested - all locations work

2.9.1 Previous Changes (2026-01-13)

Change	Old	New
Headscale	Docker on Lady	Native on Master
OSPF	FRR on Master/Lady/EdgeRouter	REMOVED - Static routes via Tailscale
Routing	OSPF + Tailscale	Tailscale-only (subnet routing)
Exit Toggle	FRR route-maps	Headscale route approval

For detailed service docs, see `~/.docs/services/`

3 Server Inventory

Last Updated: 2026-01-17

3.1 Master Server (quietly)

Property	Value
Hostname	quietly.its.me
Domain	quietly.its.me
Public IP	213.136.68.108
Tailnet IP	100.64.0.1
OS	Debian 12
SSH Port	1006
Role	Control plane, VPN Hub (Headscale native), monitoring

3.1.1 Services Running (21 containers)

Container	Image	Status
traefik	traefik:v3.6.6	☐ Healthy
portainer	portainer-ce:2.33.6	☐ Running
pihole	pihole:2025.11.1	☐ Healthy

Container	Image	Status
grafana	grafana:11.4.0	□ Healthy
prometheus	prometheus:v2.54.1	□ Healthy
loki	loki:3.3.2	□ Healthy
promtail	promtail:3.3.2	□ Running
alertmanager	alertmanager:v0.27.0	□ Healthy
semaphore	semaphore:v2.10.22	□ Healthy
authelia	authelia:4.39.15	□ Healthy
crowdsec	crowdsec:v1.6.8	□ Healthy
bouncer-traefik	traefik-crowdsec-bouncer:0.5.0	□ Healthy
cloudflared	cloudflared:2024.12.2	□ Running
gotify	gotify:2.5.0	□ Healthy
it-tools	it-tools:2024.10.22-7ca5933	□ Running
headscale-admin	headscale-admin:0.26.0	□ Running
headscale-ui	headscale-ui:2025.08.23	□ Running
admin-panel	python:3.11-slim	□ Running
fuckoff-page	nginx:alpine	□ Healthy
node-exporter	node-exporter:v1.8.2	□ Healthy
cadvisor	cadvisor:v0.51.0	□ Healthy

3.1.2 Disk Layout

```
/home/qui3tly/
└── .governance/      # Policy documents
└── .secrets/         # Credentials (700/600)
└── .docker-compose/   # Compose files per service
└── .docker/           # Config and data per service
└── .docs/             # Documentation
└── .copilot/          # Automation, backups, logs
└── .reports/          # User-facing reports
└── .ansible/          # Ansible playbooks
└── projects/          # Development projects
```

3.2 Lady Server

Property	Value
Hostname	lady
Domain	quietly.online
Public IP	207.180.251.111
Tailnet IP	100.64.0.2
OS	Debian 12
SSH Port	1006
Role	Worker, email server, cloud services

3.2.1 Services Running (4 containers - base install)

Container	Image	Status
traefik	traefik:v3.6.6	□ Running
portainer	portainer-agent:2.24.0	□ Running
crowdsec	crowdsec:v1.6.8	□ Healthy
bouncer-traefik	traefik-crowdsec-bouncer:0.5.0	□ Healthy

3.2.2 Pending Services (not yet deployed)

Service	Compose Dir	Purpose
monitoring-agents	monitoring-agents/	node-exporter, cAdvisor, promtail
mailcow	/opt/mailcow/	Full email server (mail.quietly.online)
nextcloud	nextcloud/	Cloud storage (cloud.quietly.online)
onlyoffice	onlyoffice/	Document editing (office.quietly.online)
home-assistant	home-assistant/	Home automation (home.quietly.online)
unifi	unifi/	Network controller (unifi.quietly.online)
uisp	uisp/	ISP management (uisp.quietly.online)

3.2.3 Native Services

Service	Status
tailscaled	□ Enabled, connected to Master
fail2ban	□ Enabled

3.3 Future Servers

3.3.1 Madam

Property	Value
Domain	quietly.co.me
Public IP	164.68.107.251
Status	Not configured

3.3.2 Beauty

Property	Value
Domain	qui3tly.com
Public IP	84.247.176.135
Status	Not configured

3.4 SSH Access

3.4.1 From Master to Other Servers

```
# Use SSH config aliases
ssh lady      # → quietly.online
ssh madam    # → quietly.co.me (future)
ssh beauty   # → qui3tly.com (future)
```

3.4.2 SSH Config (~/.ssh/config)

```
Host lady
  HostName 100.64.0.2
  User qui3tly
  Port 1006
  IdentityFile ~/.ssh/id_ed25519
```

```
Host madam
  HostName 164.68.107.251
  User qui3tly
  Port 1006
  IdentityFile ~/.ssh/id_ed25519
```

4 Service Catalog

Last Updated: 2026-01-15

4.1 Master Services

4.1.1 Traefik (Reverse Proxy)

Property	Value
Version	v3.6.6
Port	80, 443
URL	-
Compose	~/.docker-compose/traefik/
Config	~/.docker/traefik/

Purpose: TLS termination, routing, Let's Encrypt certificates

4.1.2 CrowdSec (Security)

Property	Value
Version	v1.6.8
Bouncer	traefik-crowdsec-bouncer:0.5.0
Compose	~/ .docker-compose/crowdsec/
Config	~/ .docker/crowdsec/

Purpose: Collaborative security with Traefik bouncer

4.1.3 Portainer (Container Management)

Property	Value
Version	2.33.6
URL	https://portainer.quietly.its.me
Compose	~/ .docker-compose/portainer/
Data	~/ .docker/portainer/data/

Purpose: Docker container management GUI

4.1.4 Headscale (VPN) - Native on Master

Property	Value
Version	v0.27.1
Server	Master (quietly.its.me) - Native service
URL	https://headscale.quietly.its.me
Admin	https://headscale-admin.quietly.its.me
UI	https://headscale-ui.quietly.its.me
Config	/etc/headscale/config.yaml
Data	/var/lib/headscale/
Service	systemctl status headscale

Purpose: Tailscale-compatible VPN coordination server

4.1.5 Pi-hole (DNS)

Property	Value
Version	2025.11.1
URL	https://pihole.quietly.its.me/admin
Port	53 (DNS)
Compose	~/ .docker-compose/pihole/

Property	Value
Data	~/ .docker/pihole/

Purpose: DNS server with ad blocking

4.1.6 Grafana (Monitoring Dashboard)

Property	Value
Version	11.4.0
URL	https://grafana.quietly.its.me
Compose	~/ .docker-compose/grafana/
Data	~/ .docker/grafana/data/

Purpose: Visualization dashboards

4.1.7 Prometheus (Metrics)

Property	Value
Version	v2.54.1
URL	https://prometheus.quietly.its.me
Port	9090 (internal)
Compose	~/ .docker-compose/grafana/
Config	~/ .docker/prometheus/

Purpose: Metrics collection and storage

4.1.8 Alertmanager (Alerts)

Property	Value
Version	v0.27.0
URL	https://alertmanager.quietly.its.me
Compose	~/ .docker-compose/grafana/
Config	~/ .docker/alertmanager/

Purpose: Alert routing to Gotify

4.1.9 Loki (Log Aggregation)

Property	Value
Version	3.3.2
Port	3100 (internal)
Compose	~/.docker-compose/grafana/
Data	~/.docker/loki/

Purpose: Log aggregation for Grafana

4.1.10 Authelia (SSO/2FA)

Property	Value
Version	4.39.15
URL	https://auth.quietly.its.me
Compose	~/.docker-compose/authelia/
Config	~/.docker/authelia/

Purpose: Single sign-on with 2FA

4.1.11 Semaphore (Ansible GUI)

Property	Value
Version	v2.10.22
URL	https://ansible.quietly.its.me
Compose	~/.docker-compose/semaphore/
Data	~/.docker/semaphore/

Purpose: Ansible playbook execution GUI

4.1.12 Gotify (Push Notifications)

Property	Value
Version	2.5.0
URL	https://gotify.quietly.its.me
Compose	~/.docker-compose/gotify/
Data	~/.docker/gotify/

Purpose: Push notifications from Alertmanager

4.1.13 Cloudflared (Tunnel)

Property	Value
Version	2024.12.2
Compose	~/ .docker-compose/cloudflared/

Purpose: Cloudflare tunnel for external access

4.1.14 IT-Tools (Utilities)

Property	Value
Version	2024.10.22-7ca5933
URL	https://tools.quietly.its.me
Compose	~/ .docker-compose/it-tools/

Purpose: Developer/IT utility collection

4.2 Lady Services

4.2.1 Traefik (Reverse Proxy)

Property	Value
Version	v3.6.6
URL	-
Compose	~/ .docker-compose/traefik/

4.2.2 CrowdSec (Security)

Property	Value
Version	v1.6.8
Bouncer	traefik-crowdsec-bouncer:0.5.0
Compose	~/ .docker-compose/crowdsec/

Purpose: Collaborative security with Traefik bouncer

4.2.3 Portainer Agent

Property	Value
Version	2.33.6
Port	9001
Compose	~/.docker-compose/portainer/

Purpose: Connects to master Portainer for remote management

4.2.4 Mailcow (Email Server)

Property	Value
Version	Latest (2026-01)
URL	https://mail.quietly.online
Webmail	https://mail.quietly.online/SOGo
Containers	18 (nginx, postfix, dovecot, rspamd, mysql, redis, sogo, clamd, etc.)
Compose	/opt/mailcow-dockerized/

Purpose: Full email server with webmail, spam filtering, antivirus

4.3 Planned Services

Service	Server	Purpose
Monitoring agents	Lady	node-exporter, cAdvisor, promtail
Nextcloud	Lady	File sync and share (deferred)
Client VPN	Lady	VPN for clients with web GUI
UniFi Controller	Beauty	Network management