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Tests

Full testing kit (suites, live, Docker): [**Testing**](#)

`pnpm test:force` : Kills any lingering gateway process holding the default control port, then runs the full Vitest suite with an isolated gateway port so server tests don't collide with a running instance. Use this when a prior gateway run left port 18789 occupied.

`pnpm test:coverage` : Runs the unit suite with V8 coverage (via `vitest.unit.config.ts`). Global thresholds are 70% lines/branches/functions/statements. Coverage excludes integration-heavy entrypoints (CLI wiring, gateway/telegram bridges, webchat static server) to keep the target focused on unit-testable logic.

`pnpm test` on Node 24+: OpenClaw auto-disables Vitest `vmForks` and uses `forks` to avoid `ERR_VM_MODULE_LINK_FAILURE` / `module is already linked`. You can force behavior with `OPENCLAW_TEST_VM_FORKS=0|1`.

`pnpm test:e2e` : Runs gateway end-to-end smoke tests (multi-instance WS/HTTP/node pairing). Defaults to `vmForks` + adaptive workers in `vitest.e2e.config.ts`; tune with `OPENCLAW_E2E_WORKERS=<n>` and set `OPENCLAW_E2E_VERBOSE=1` for verbose logs.

`pnpm test:live` : Runs provider live tests (minimax/zai). Requires API keys and `LIVE=1` (or provider-specific `*_LIVE_TEST=1`) to unskip.

Model latency bench (local keys)

Script: [scripts/bench-model.ts](#)



Usage:

```
>  
source ~/.profile && pnpm tsx scripts/bench-model.ts --runs 10
```

Optional env: MINIMAX_API_KEY , MINIMAX_BASE_URL , MINIMAX_MODEL , ANTHROPIC_API_KEY

Default prompt: “Reply with a single word: ok. No punctuation or extra text.”

Last run (2025-12-31, 20 runs):

```
minimax median 1279ms (min 1114, max 2431)  
opus median 2454ms (min 1224, max 3170)
```

Onboarding E2E (Docker)

Docker is optional; this is only needed for containerized onboarding smoke tests.

Full cold-start flow in a clean Linux container:

```
scripts/e2e/onboard-docker.sh
```

This script drives the interactive wizard via a pseudo-tty, verifies config/workspace/session files, then starts the gateway and runs openclaw health .

QR import smoke (Docker)

Ensures qrcode-terminal loads under Node 22+ in Docker:

```
pnpm test:docker:qr
```

[**< Release Checklist**](#)[**Onboarding and Config Protocol >**](#)Powered by **mintlify**

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