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## Web interfaces

# Web

The Gateway serves a small **browser Control UI** (Vite + Lit) from the same port as the Gateway WebSocket:

default: `http://<host>:18789/`

optional prefix: `set gateway.controlUi.basePath (e.g. /openclaw )`

Capabilities live in **Control UI**. This page focuses on bind modes, security, and web-facing surfaces.

## Webhooks

When `hooks.enabled=true` , the Gateway also exposes a small webhook endpoint on the same HTTP server. See **Gateway configuration** → `hooks` for auth + payloads.

## Config (default-on)

The Control UI is **enabled by default** when assets are present ( `dist/control-ui` ). You can control it via config:



```
gateway: {  
  controlUi: { enabled: true, basePath: "/openclaw" }, // basePath optional  
},  
}
```

## Tailscale access

### Integrated Serve (recommended)

Keep the Gateway on loopback and let Tailscale Serve proxy it:

```
{  
  gateway: {  
    bind: "loopback",  
    tailscale: { mode: "serve" },  
  },  
}
```

Then start the gateway:

```
openclaw gateway
```

Open:

`https://<magicdns>/` (or your configured `gateway.controlUi.basePath` )

### Tailnet bind + token



```
gateway: {  
  bind: "tailnet",  
  controlUi: { enabled: true },  
  auth: { mode: "token", token: "your-token" },  
},  
}
```

Then start the gateway (token required for non-loopback binds):

```
openclaw gateway
```

Open:

```
http://<tailscale-ip>:18789/ (or your configured  
gateway.controlUi.basePath )
```

## Public internet (Funnel)

```
{  
  gateway: {  
    bind: "loopback",  
    tailscale: { mode: "funnel" },  
    auth: { mode: "password" }, // or OPENCLAW_GATEWAY_PASSWORD  
  },  
}
```

## Security notes

Gateway auth is required by default (token/password or Tailscale identity headers).

Non-loopback binds still **require** a shared token/password ( gateway.auth or env ).



The wizard generates a gateway token by default (even on loopback).

The UI sends `connect.params.auth.token` or `connect.params.auth.password` .

The Control UI sends anti-clickjacking headers and only accepts same-origin browser websocket connections unless

`gateway.controlUi.allowedOrigins` is set.

With Serve, Tailscale identity headers can satisfy auth when `gateway.auth.allowTailscale` is `true` (no token/password required). Set `gateway.auth.allowTailscale: false` to require explicit credentials. See [Tailscale](#) and [Security](#).

`gateway.tailscale.mode: "funnel"` requires `gateway.auth.mode: "password"` (shared password).

## Building the UI

The Gateway serves static files from `dist/control-ui` . Build them with:

```
pnpm ui:build # auto-installs UI deps on first run
```

< [Formal Verification \(Security Models\)](#)

[Control UI](#) >

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