Providers › **Anthropic**

Providers

Anthropic

Anthropic builds the `Claude` model family and provides access via an API. In OpenClaw you can authenticate with an API key or a `setup-token`.

Option A: Anthropic API key

Best for: standard API access and usage-based billing. Create your API key in the Anthropic Console.

CLI setup

```
openclaw onboard
# choose: Anthropic API key

# or non-interactive
openclaw onboard --anthropic-api-key "$ANTHROPIC_API_KEY"
```

Config snippet

```
{
  env: { ANTHROPIC_API_KEY: "sk-ant-..." },
  agents: { defaults: { model: { primary: "anthropic/claude-opus-4-6" } } },
}
```

Prompt caching (Anthropic API)

OpenClaw supports Anthropic's prompt caching feature. This is **API-only**; subscription auth does not honor cache settings.

Configuration

Use the `cacheRetention` parameter in your model config:

Value	Cache Duration	Description
none	No caching	Disable prompt caching
short	5 minutes	Default for API Key auth
long	1 hour	Extended cache (requires beta flag)

```
{
  agents: {
    defaults: {
      models: {
        "anthropic/claude-opus-4-6": {
          params: { cacheRetention: "long" },
        },
      },
    },
  },
}
```

Defaults

When using Anthropic API Key authentication, OpenClaw automatically applies `cacheRetention: "short"` (5-minute cache) for all Anthropic models. You can override this by explicitly setting `cacheRetention` in your config.

Legacy parameter

The older `cacheControlTtl` parameter is still supported for backwards compatibility:

- `"5m"` maps to `short`

- `"1h"` maps to `long`

We recommend migrating to the new `cacheRetention` parameter.

OpenClaw includes the `extended-cache-ttl-2025-04-11` beta flag for Anthropic API requests; keep it if you override provider headers (see /gateway/configuration).

1M context window (Anthropic beta)

Anthropic's 1M context window is beta-gated. In OpenClaw, enable it per model with `params.context1m: true` for supported Opus/Sonnet models.

```
{
  agents: {
    defaults: {
      models: {
        "anthropic/claude-opus-4-6": {
          params: { context1m: true },
        },
      },
    },
  },
}
```

OpenClaw maps this to `anthropic-beta: context-1m-2025-08-07` on Anthropic requests.

Option B: Claude setup-token

Best for: using your Claude subscription.

Where to get a setup-token

Setup-tokens are created by the **Claude Code CLI**, not the Anthropic Console. You can run this on **any machine**:

```
claude setup-token
```

Paste the token into OpenClaw (wizard: **Anthropic token (paste setup-token)**), or run it on the gateway host:

```
openclaw models auth setup-token --provider anthropic
```

If you generated the token on a different machine, paste it:

```
openclaw models auth paste-token --provider anthropic
```

CLI setup (setup-token)

```
# Paste a setup-token during onboarding
openclaw onboard --auth-choice setup-token
```

Config snippet (setup-token)

```
{
  agents: { defaults: { model: { primary: "anthropic/claude-opus-4-6" } } },
}
```

Notes

Generate the setup-token with `claude setup-token` and paste it, or run `openclaw models auth setup-token` on the gateway host.

If you see "OAuth token refresh failed …" on a Claude subscription, re-auth with a setup-token. See /gateway/troubleshooting#oauth-token-refresh-failed-anthropic-claude-subscription.

Auth details + reuse rules are in /concepts/oauth.

Troubleshooting

401 errors / token suddenly invalid

Claude subscription auth can expire or be revoked. Re-run `claude setup-token` and paste it into the **gateway host**.

If the Claude CLI login lives on a different machine, use `openclaw models auth paste-token --provider anthropic` on the gateway host.

No API key found for provider "anthropic"

Auth is **per agent**. New agents don't inherit the main agent's keys.

Re-run onboarding for that agent, or paste a setup-token / API key on the gateway host, then verify with `openclaw models status`.

No credentials found for profile `anthropic:default`

Run `openclaw models status` to see which auth profile is active.

Re-run onboarding, or paste a setup-token / API key for that profile.

No available auth profile (all in cooldown/unavailable)

Check `openclaw models status --json` for `auth.unusableProfiles`.

Add another Anthropic profile or wait for cooldown.

More: **/gateway/troubleshooting** and **/help/faq**.

‹ **Model Failover**   **OpenAI** ›

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