

Got it — clean & simple: Only SearXNG on Render Free Tier (no MCP, no extra stuff).

This gives you a **fully private, unlimited, max-powered SearXNG** (all engines enabled) that you can access directly in browser or via API.

Later when you want MCP, just point it to this URL.

1. Create One GitHub Repo (`searxng-render`)

Go to GitHub → New Repository → Name: `searxng-render` (public or private, doesn't matter)

Add these **two files**:

Dockerfile

```
dockerfile
FROM searxng/searxng:latest

# Bake the full settings (Render free tier has no persistent storage)
COPY settings.yml /etc/searxng/settings.yml

# Fix permissions
USER root
RUN chown searxng:searxng /etc/searxng/settings.yml && \
    chmod 644 /etc/searxng/settings.yml
USER searxng
```

`settings.yml` (This enables everything from the official docs + all 247 engines)

YAML

```
general:
  instance_name: "MyUnlimitedSearXNG"
  debug: false

server:
  port: 8080
  bind_address: "0.0.0.0"
  limiter: false          # ← Truly unlimited
  secret_key: "change-to-a-very-long-random-string-2026"
```

```
search:
  safe_search: 0
  autocomplete: "google"
  default_lang: ""
  formats: [html, json, rss, csv]

ui:
  static_use_hash: true

outgoing:
  request_timeout: 5.0
  useragent_suffix: "Render-SearXNG-Max"

# Load defaults first (85 engines)
use_default_settings: true

# ----- ENABLE EVERY ENGINE -----
engines:
  # Core + everything from https://docs.searxng.org/dev/engines/
  - name: google
    disabled: false
  - name: bing
    disabled: false
  - name: duckduckgo
    disabled: false
  - name: brave
    disabled: false
  - name: qwant
    disabled: false
  - name: startpage
    disabled: false
  - name: yahoo
    disabled: false
  - name: mojeek
    disabled: false
  - name: yep
    disabled: false
  - name: 1337x
    disabled: false
  - name: adobe_stock
    disabled: false
  - name: alpinelinux
```

```
    disabled: false
- name: annas_archive
  disabled: false
- name: archlinux
  disabled: false
- name: arxiv
  disabled: false
- name: astrophysics_data_system
  disabled: false
- name: azure
  disabled: false
- name: bing_images
  disabled: false
- name: bing_news
  disabled: false
- name: bing_videos
  disabled: false
- name: bt4g
  disabled: false
- name: chinaso
  disabled: false
- name: core
  disabled: false
- name: crossref
  disabled: false
- name: dailymotion
  disabled: false
- name: discourse
  disabled: false
- name: geizhals
  disabled: false
- name: gitea
  disabled: false
- name: github
  disabled: false
- name: github_code
  disabled: false
- name: gitlab
  disabled: false
- name: google_images
  disabled: false
- name: google_news
```

```
        disabled: false
- name: google_scholar
  disabled: false
- name: google_videos
  disabled: false
- name: hackernews
  disabled: false
- name: huggingface
  disabled: false
- name: imdb
  disabled: false
- name: invidious
  disabled: false
- name: lemmy
  disabled: false
- name: loc
  disabled: false
- name: marginalia
  disabled: false
- name: mastodon
  disabled: false
- name: moviepilot
  disabled: false
- name: mrs
  disabled: false
- name: mwmb1
  disabled: false
- name: nyaa
  disabled: false
- name: odysee
  disabled: false
- name: openalex
  disabled: false
- name: openlibrary
  disabled: false
- name: peertube
  disabled: false
- name: piped
  disabled: false
- name: piratebay
  disabled: false
- name: pubmed
```

```
disabled: false
- name: radio_browser
  disabled: false
- name: reddit
  disabled: false
- name: rumble
  disabled: false
- name: semantic_scholar
  disabled: false
- name: solidtorrents
  disabled: false
- name: soundcloud
  disabled: false
- name: sourcehut
  disabled: false
- name: springer
  disabled: false
- name: stackexchange
  disabled: false
- name: tagesschau
  disabled: false
- name: torznab
  disabled: false
- name: tubearchivist
  disabled: false
- name: unsplash
  disabled: false
- name: vimeo
  disabled: false
- name: wallhaven
  disabled: false
- name: wikipedia
  disabled: false
- name: youtube_noapi
  disabled: false
- name: zlibrary
  disabled: false

# Add any more from
https://github.com/searxng/searxng/tree/master/searx/engines
# Just copy the pattern: - name: engine_name    disabled: false
```

Commit both files.

2. Deploy on Render (Free)

1. Go to dashboard.render.com → **New** → **Web Service**
2. Connect your `searxng-render` GitHub repo
3. **Name:** `searxng` (or anything)
4. **Branch:** `main`
5. **Runtime:** Docker
6. **Instance Type:** Free
7. **Environment Variables** (add this one):
 - Key: `BASE_URL`
Value: <https://YOUR-APP.onrender.com/> ← (Render will show the URL after first deploy — update it later)
8. Click **Create Web Service**

Wait 2–4 minutes for build + deploy.

3. First-Time Setup (Important)

After deploy:

- Go to the service → **Environment** tab
- Update `BASE_URL` to the exact URL Render gave you (e.g. <https://searxng-abc123.onrender.com/>)
- Click **Redeploy**

4. Test It

- Open <https://your-searxng.onrender.com> in browser → search anything
- JSON API: <https://your-searxng.onrender.com/search?q=latest%20grok%204&format=json>

5. Keep It Awake (Free UptimeRobot)

1. Go to uptimerobot.com → Free account
2. Add New Monitor → HTTP(s) → paste your SearXNG URL → every 5 minutes

This uses almost zero of your 750 free hours and prevents cold starts.

Done.

Your private max-SearXNG is now live on Render free forever.

When you want to add MCP later, just tell me — it'll take 2 minutes to connect.

Ping me with the Render URL when it's up, I'll test a few heavy queries for you. 🔥