

Meilisearch In Live

Step 1: Server Requirements **চেক করা**

Meilisearch চালানোর জন্য server এ এইগুলো লাগবে:

- **OS:** Linux (Ubuntu/Debian/CentOS preferred)
- **RAM:** Minimum 512MB (1GB+ recommended)
- **SSH access** (cPanel terminal / Putty / any SSH client)
- **Command line tools:** wget, chmod, screen/nohup
- **Port:** 7700 (default)

Note: Shared hosting অনেক ক্ষেত্রে background process বা custom ports allow করে না।
VPS/Dedicated server হলে অনেক সহজ।

Step 2: SSH দিয়ে Server এ Login করা

cPanel এর Terminal বা external SSH client (Putty) use করুন:

ssh username@yourdomain.com

username = cPanel username

yourdomain.com = server IP বা domain

Step 3: Meilisearch Download করা

1. Latest release URL check করুন: [Meilisearch Releases](https://github.com/meilisearch/meilisearch/releases)
2. Linux 64-bit server জন্য download করুন:

wget https://github.com/meilisearch/meilisearch/releases/download/v1.3.1/meilisearch-linux-amd64

3. Binary executable করুন:

chmod +x meilisearch-linux-amd64

4. Optional: Meilisearch কে globally run করার জন্য /usr/local/bin এ move করতে পারেন:

sudo mv meilisearch-linux-amd64 /usr/local/bin/meilisearch

এখন terminal এ শুধু meilisearch command use করা যাবে।

Step 4: Meilisearch Run করা

- Development mode (testing):

```
./meilisearch --env development
```

- Production mode (secure):

```
./meilisearch --env production --master-key 'YOUR_SECRET_KEY'
```

Replace YOUR_SECRET_KEY with a strong key

- Public access করতে চাইলে:

```
./meilisearch --env production --http-addr 0.0.0.0:7700 --master-key 'YOUR_SECRET_KEY'
```

এখন server IP বা domain দিয়ে access করা যাবে।

Step 5: Background এ Run করা

Logout হলে process বন্ধ না হওয়ার জন্য:

Option 1: nohup

```
nohup ./meilisearch --env production --http-addr 0.0.0.0:7700 --master-key 'YOUR_SECRET_KEY' &
```

- nohup.out file এ logs save হবে
- & = background

Option 2: screen (recommended)

```
screen -S meilisearch
```

```
./meilisearch --env production --http-addr 0.0.0.0:7700 --master-key 'YOUR_SECRET_KEY'
```

- Ctrl+A then D → detach
 - Resume: screen -r meilisearch
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Step 6: cPanel Subdomain দিয়ে Access Setup

1. cPanel → Domains → Subdomains
 2. Create subdomain: search.yourdomain.com
 3. Subdomain document root → any folder (we will use reverse proxy)
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Step 7: Apache Reverse Proxy Setup (Shared Hosting)

1. cPanel → **File Manager** → **.htaccess** in subdomain root
2. Add:

RewriteEngine On

RewriteRule ^(.*)\$ http://127.0.0.1:7700/\$1 [P,L]

- [P] = proxy
- Alternatively VPS/Nginx use করলে proper reverse proxy config হবে

Note: Shared hosting সব সময় proxy allow করে না। VPS/Dedicated server হলে 100% smooth।

Step 8: Security

- **Always use master key**
 - Optional: .htaccess password protect or firewall restrict IP
 - Never expose 0.0.0.0:7700 publicly without authentication
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Step 9: Testing

- Browser → http://search.yourdomain.com (or IP:7700)
- CURL test:

curl http://127.0.0.1:7700/health

- Response should be:

```
{"status":"available"}
```

Step 10: Auto-start on Server Reboot (Optional VPS)

1. Create systemd service: /etc/systemd/system/meilsearch.service

[Unit]

Description=Meilsearch

After=network.target

[Service]

ExecStart=/usr/local/bin/meilsearch --env production --http-addr 0.0.0.0:7700 --master-key
'YOUR_SECRET_KEY'

Restart=always

User=yourusername

Group=yourusername

[Install]

WantedBy=multi-user.target

2. Enable & start:

sudo systemctl enable meilsearch

sudo systemctl start meilsearch

Shared hosting এ systemd access নেই, VPS/Dedicated server এ possible।