
```
graph TD
  subgraph "Client Layer"
    User["User Browser"]
  end

  subgraph "Application & Gateway Layer"
    Nginx["Nginx Reverse Proxy\n(Port 80)"]
    Streamlit["Streamlit Web App\n(Port 8502)"]
  end

  subgraph "Intelligence & RAG Layer"
    Ollama["Ollama Engine\n(Mistral / Llama 3.2)\n(Port 11434)"]
    SearXNG["SearXNG Anonymous Search\n(Port 8080)"]
  end

  subgraph "Database & Storage Layer"
    MySQL["MySQL Database Server\n(Port 3307)"]
    Alembic["Alembic Migrations"]
  end

  subgraph "Observability & Telemetry"
    Zabbix["Zabbix Server & Web Dashboard\n(Ports 8081 / 10051)"]
    SNMP["SNMPv3 Trap Agent"]
  end

  %% Connections
  User -->|HTTP| Nginx
  Nginx -->|Proxy Pass| Streamlit
  Streamlit -->|Vector / Chat Queries| Ollama
  Streamlit -->|Fallback Search| SearXNG
```


192.168.130.161

docker-compose.yml

localhost

