Network Binder

Bind multiple internet connection endpoints into single one using the Multipath TCP (mptcp).

A **production-ready MPTCP router** with:

✅ Automatic multi-WAN detection
✅ Secure Docker integration
✅ Optimized traffic bonding
✅ Real-time monitoring
✅ Self-healing firewall

Project status

Currently **UNDER THE DEVELOPMENT**.

Development environment

- Ubuntu Server 24.04.2 LTS

Project structure

```
# /mptcp-router/
# ├── docker-compose.yml
# ├── config/
# │   ├── netplan/ (auto-generated)
# │   ├── firewall/
# │   │   └── rules.v4
# │   └── mptcp/
# │       └── mptcp.conf
# ├── scripts/
# │   ├── auto-detector.sh
# │   └── firewall-setup.sh
# └── README.md
```

How to use

- Export MAC address of your Gateway LAN ethernet:

  ```
  export LAN_GATE_MAC="MAC_ADDRESS"
  ```

- Execute installation script: `sh Install.sh`