

Network Setup - First Boot (moOde Standard)

Problem: Pi boots but has no network (IP: 127.0.1.1)

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Problem

After booting moOde standard image:

- IP address: 127.0.1.1 (loopback, no real network)
- No Ethernet connection
- WiFi not configured
- Cannot access via SSH or Web UI

Solution Options

Option 1: Connect Ethernet Cable (Easiest)

1. **Connect Ethernet cable** to Raspberry Pi
2. **Wait 30 seconds** for DHCP
3. **Find IP address:**
 - Check router admin panel
 - Or use network scanner
4. **Access via SSH:**

```
ssh pi@PI_IP_ADDRESS  
# Default password: moodeaudio
```

Option 2: Configure WiFi via moOde Web UI

If you can access the Web UI somehow:

1. **Access Web UI** (if IP known or via direct connection)
2. **Go to:** Configure → Network
3. **Select:** WiFi
4. **Enter credentials:**
 - SSID: Centara Nova Hotel
 - Security: WPA2/WPA3 (or as required)
 - Username: 309 (if required)
 - Password: password
5. **Save and restart**

Option 3: Configure WiFi via SD Card (Before Boot)

If SD card is accessible:

1. **Mount boot partition** of SD card

2. **Create WiFi configuration file:**

File: /Volumes/bootfs/wpa_supplicant.conf

```
country=US
ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev
update_config=1

network={
    ssid="Centara Nova Hotel"
    psk="password"
    # If hotel requires username:
    # identity="309"
    # password="password"
    # key_mgmt=WPA-EAP
    # eap=PEAP
}
```

3. **Eject SD card**

4. **Boot Pi**

5. **WiFi should connect automatically**

Option 4: Configure WiFi via SSH (If Accessible)

If you can access Pi via SSH (local network, serial, etc.):

```
# Edit WiFi configuration
sudo nano /etc/wpa_supplicant/wpa_supplicant.conf

# Add network:
network={
    ssid="Centara Nova Hotel"
    psk="password"
}

# Restart networking
sudo systemctl restart networking
# Or
sudo wpa_cli reconfigure
```

Hotel WiFi Specific

Hotel: Centara Nova Hotel

SSID: Centara Nova Hotel

Username: 309

Password: password

Note: Hotel WiFi often requires:

- Web portal login (captive portal)
- WPA2-Enterprise with username
- Special authentication

If standard WPA2 doesn't work, you may need to:

1. Connect via Ethernet first
2. Access hotel WiFi portal
3. Configure WiFi via moOde Web UI

Recommended Approach

1. **Connect Ethernet cable** (easiest, most reliable)

2. **Find IP address** (router or network scan)
 3. **Access via SSH or Web UI**
 4. **Configure WiFi through moode interface**
 5. **Disconnect Ethernet** (if WiFi works)
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Finding Pi IP Address

Method 1: Router Admin Panel

- Log into router
- Check DHCP client list
- Look for "raspberrypi" or "moode" hostname

Method 2: Network Scanner

```
# Scan local network
nmap -sn 192.168.1.0/24
# Or
arp -a | grep -i "raspberry\|moode"
```

Method 3: Check Serial Console

- Connect serial cable
- Check IP address in boot messages

After Network is Working

Once Pi has network:

1. ■ SSH works
 2. ■ Web UI accessible
 3. ■ Can configure further settings
 4. ■ Can set up remote access
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Try Ethernet first - it's the easiest way to get network working.