

■ Network Test Results - 2025-01-12

Test Run Summary

Date: 2025-01-12

Test Script: `scripts/network/TESTNETWORKCONFIG.sh`

Status: ■ PASSED (with expected failures)

■ Test Results

Test 1: Forbidden IP Verification

- **Status:** ■ **PASS**
- **Result:** IP `192.168.1.101` correctly identified as router (not reachable)
- **Note:** This is the foreign router, NOT the Pi - correctly excluded

Test 2: Hostname Resolution (mDNS)

- **Status:** ■ **PASS**
- **Result:** `ghettoblaster.local` is reachable
- **Method:** mDNS/Bonjour working correctly

Test 3: IP Address Connectivity

- **Status:** ■■ **PARTIAL**
- **Results:**
- ■ `192.168.1.159` - **REACHABLE** (WiFi - nam yang 2)
- ■ `192.168.10.2` - **NOT REACHABLE** (Ethernet not connected to Mac)
- ■ `192.168.1.100` - **NOT REACHABLE** (not configured)
- **Note:** Expected - Ethernet connection to Mac not active

Test 4: SSH Connectivity

- **Status:** ■ **PASS**
- **Target:** `andre@ghettoblaster.local` or `andre@192.168.1.159`
- **Result:** SSH connection successful
- **Authentication:** Password-based (0815)

Test 5-7: Network Status on Pi

- **Status:** ■ **PASS**
- **Details:** See below

■ Current Network Configuration

Active Interfaces

WiFi (wlan0)

- **Status:** ■ **CONNECTED**
- **Connection:** `nam-yang-2`
- **SSID:** `NAM YANG 2`
- **IP Address:** `192.168.1.159/24`
- **Auto-Connect:** ■ **ENABLED**
- **Method:** DHCP
- **Signal:** Good (82% in scan)

Ethernet (eth0)

- **Status:** ■ **CONNECTED**
- **Connection:** `Ethernet`
- **IP Address:** `192.168.2.3/24`
- **Method:** DHCP
- **Note:** Different network (192.168.2.x) - likely different router

Network Summary

Interface	Status	IP Address	Network	Connection	
■	■	■	■	■	■
wlan0	connected	192.168.1.159	192.168.1.0/24	nam-yang-2	
eth0	connected	192.168.2.3	192.168.2.0/24	Ethernet	
lo	connected	127.0.0.1	localhost	loopback	

■ Connection Methods Verified

■ Working Methods

1. **SSH via Hostname (Recommended)**
`ssh andre@ghettoblaster.local`
 - ■ Works via mDNS
 - ■ No need to know IP address
 - ■ Works across network changes
2. **SSH via WiFi IP**
`ssh andre@192.168.1.159`
 - ■ Works when WiFi connected
 - ■■ IP may change if DHCP renews
3. **SSH via Ethernet IP (when connected)**
`ssh andre@192.168.2.3`
 - ■ Works when Ethernet connected
 - ■■ Different network (192.168.2.x)

■ Not Available (Expected)

1. **SSH via Direct Ethernet IP**
`ssh andre@192.168.10.2`
 - ■ Not reachable (Mac not connected via USB-C Ethernet)

- ■ Expected - only works when Mac-Pi direct connection active

■ WiFi Configuration Details

Connection: `nam-yang-2`

- **UUID:** `afd221d4-aeb5-4b41-bbdc-3a93793b9f45`
- **Type:** `802-11-wireless`
- **Interface:** `wlan0`
- **SSID:** `NAM YANG 2`
- **Security:** WPA1/WPA2
- **Auto-Connect:** ■ **YES**
- **Auto-Connect Priority:** `0` (default)
- **IPv4 Method:** `auto` (DHCP)
- **IPv6 Method:** `auto`

Connection Status

- **State:** `connected`
- **Active:** ■ Yes
- **IP:** `192.168.1.159/24`
- **Gateway:** Assigned via DHCP
- **DNS:** Assigned via DHCP

■ Verification Checklist

- [x] Can connect via SSH using hostname (`ghettoblaster.local`)
- [x] Can connect via SSH using WiFi IP (`192.168.1.159`)
- [x] WiFi auto-connects on boot (configured)
- [x] IP address assigned via DHCP (working)
- [x] Internet connectivity works (via WiFi)
- [x] All network interfaces show correct status
- [x] No .101 IP confusion (correctly excluded)
- [x] Documentation updated with current IPs

■ Recommendations

For Daily Use

1. **Use hostname for SSH:** `ssh andre@ghettoblaster.local`
 - Most reliable, works regardless of IP changes
 - No need to remember IP addresses
2. **WiFi is primary connection:**
 - Auto-connects to "nam yang 2"
 - Stable IP via DHCP
 - Internet access available

For Development

1. ****Direct Ethernet (192.168.10.2):****
 - Use when Mac-Pi direct connection needed
 - Static IP, always same address
 - No internet, but direct connection
2. ****Current WiFi (192.168.1.159):****
 - Use for normal operations
 - Internet access available
 - Auto-connects on boot

■ Quick Reference

Current Active IPs

- ****WiFi:**** `192.168.1.159` (nam yang 2 network)
- ****Ethernet:**** `192.168.2.3` (different network)
- ****Hostname:**** `ghettoblaster.local`

SSH Commands

```
# Recommended (hostname)
ssh andre@ghettoblaster.local

# WiFi IP (current)
ssh andre@192.168.1.159

# Ethernet IP (when connected)
ssh andre@192.168.2.3
```

Network Status Commands

```
# On Pi
hostname -I                # Show all IPs
nmcli device status        # Show interface status
nmcli connection show --active # Show active connections
ip addr show               # Detailed interface info
```

■ Next Steps

1. ■ ****WiFi Configuration:**** Complete
2. ■ ****Auto-Connect:**** Enabled
3. ■ ****Documentation:**** Updated
4. ■ ****Testing:**** Passed

Status: ■ Network configuration is complete and working!

Last Updated: 2025-01-12

Tested By: Automated test script + manual verification