

SETUP NANO STATION 2 AS STATION MODE

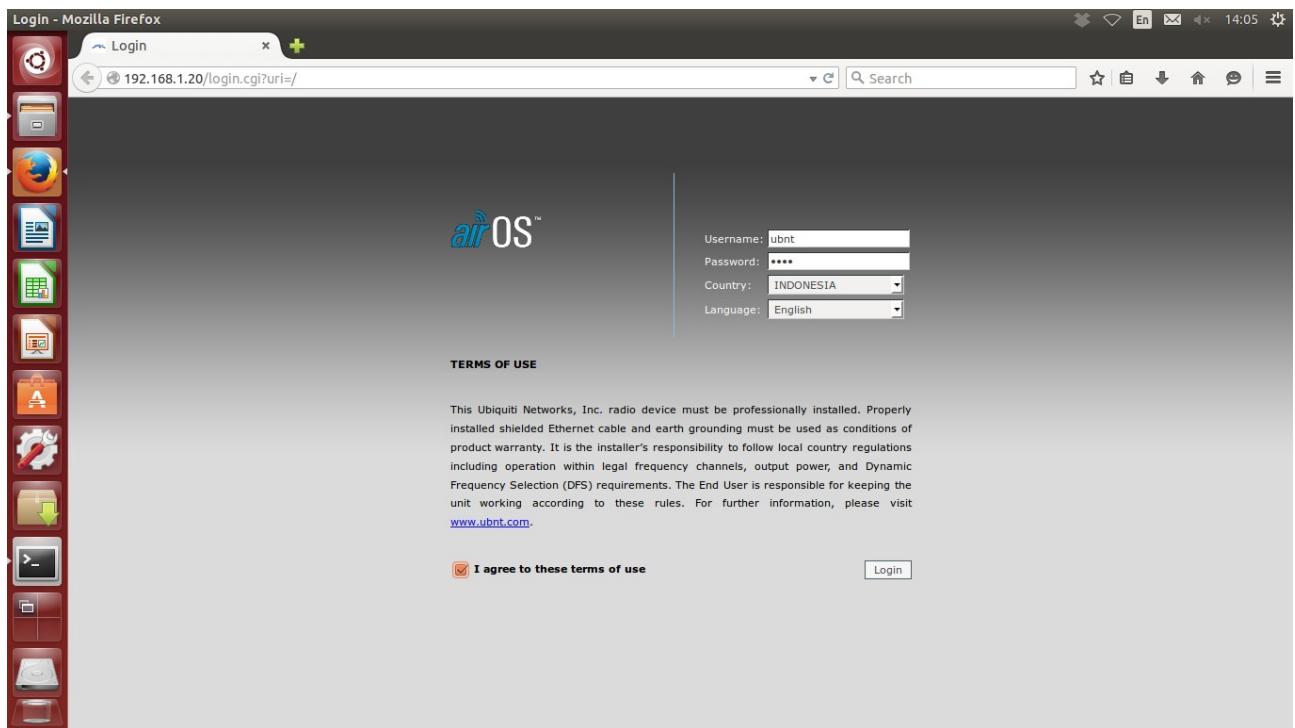
Note : Topology (AP -- NS2 -- Client).

Client / 192.168.50.0/24

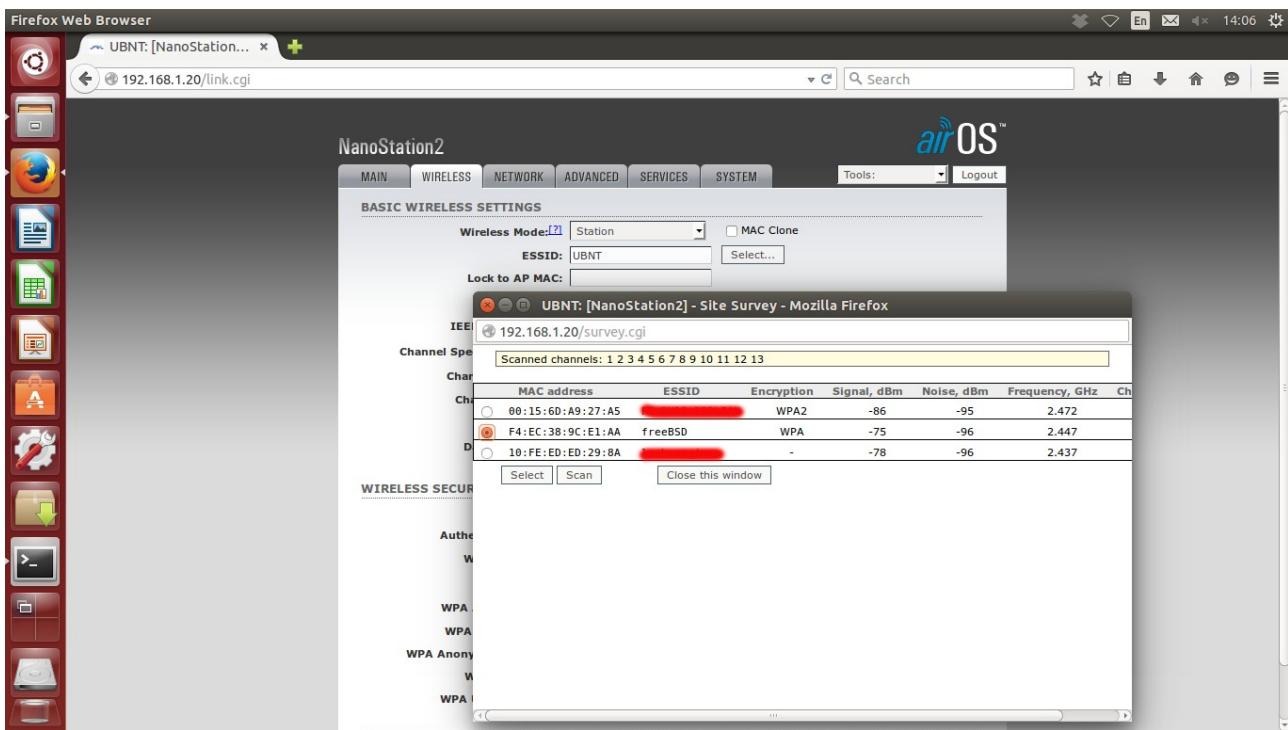
NS2 LAN / 192.168.50.1

NS2 WLAN / scan site survey.

1. login to ns2, default ip 192.168.1.20, user & pwd default ubnt.

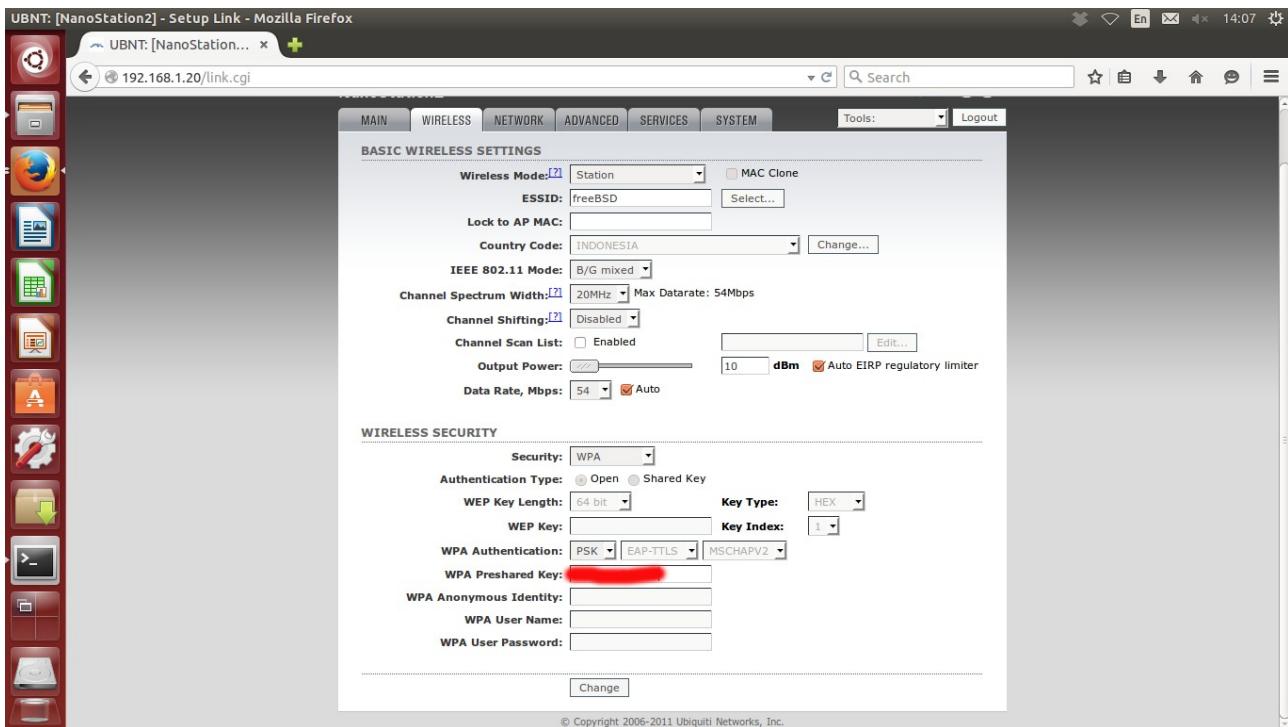


2. set wireless as station mode, scan & select SSID.



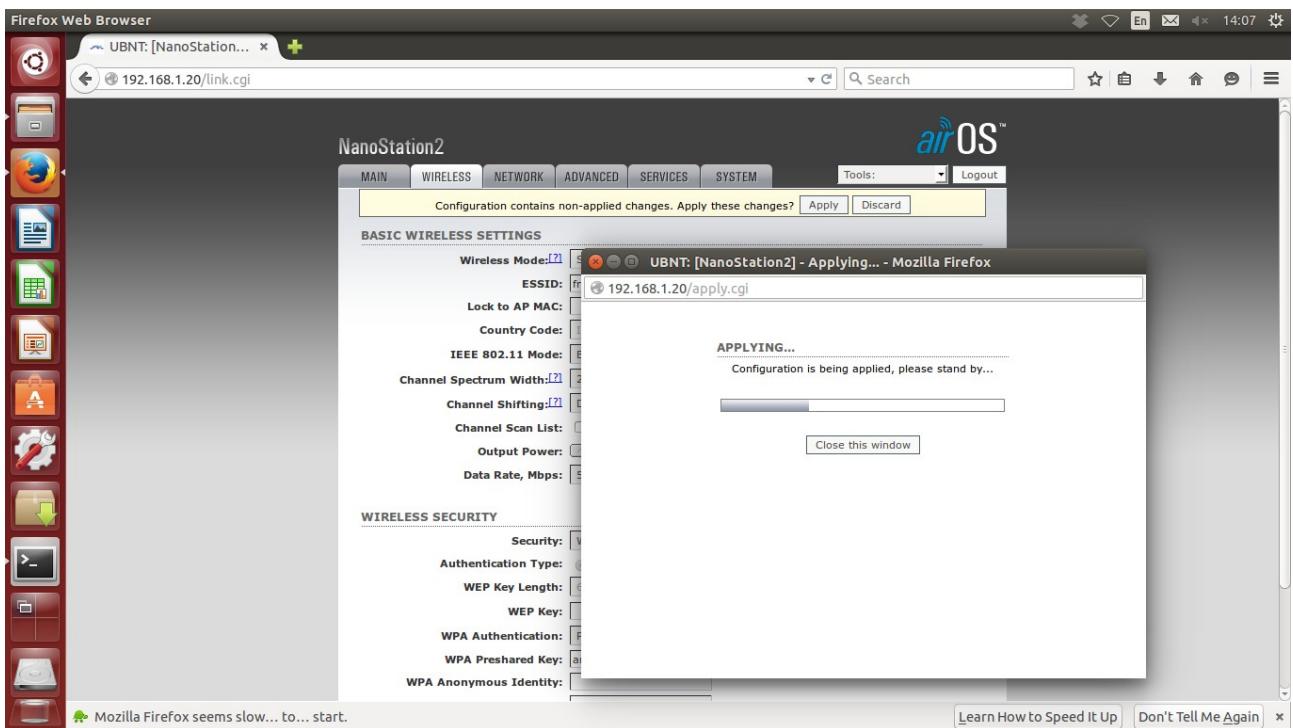
The screenshot shows the airOS web interface on a Ubiquiti NanoStation2. The main window displays 'BASIC WIRELESS SETTINGS' with 'Wireless Mode' set to 'Station' and 'ESSID' set to 'UBNT'. Below this is a 'Channel Spectrum' window titled '192.168.1.20/survey.cgi' showing a list of scanned channels. The 'freeBSD' network is selected, indicated by a red circle. The table in the 'Channel Spectrum' window includes columns for MAC address, ESSID, Encryption, Signal, dBm, Noise, dBm, Frequency, GHz, and Channel. The 'freeBSD' entry has values: MAC address 00:15:60:9C:E1:AA, ESSID freeBSD, Encryption WPA, Signal -75, Noise -96, Frequency 2.447 GHz, and Channel 11.

3. set key & etc.

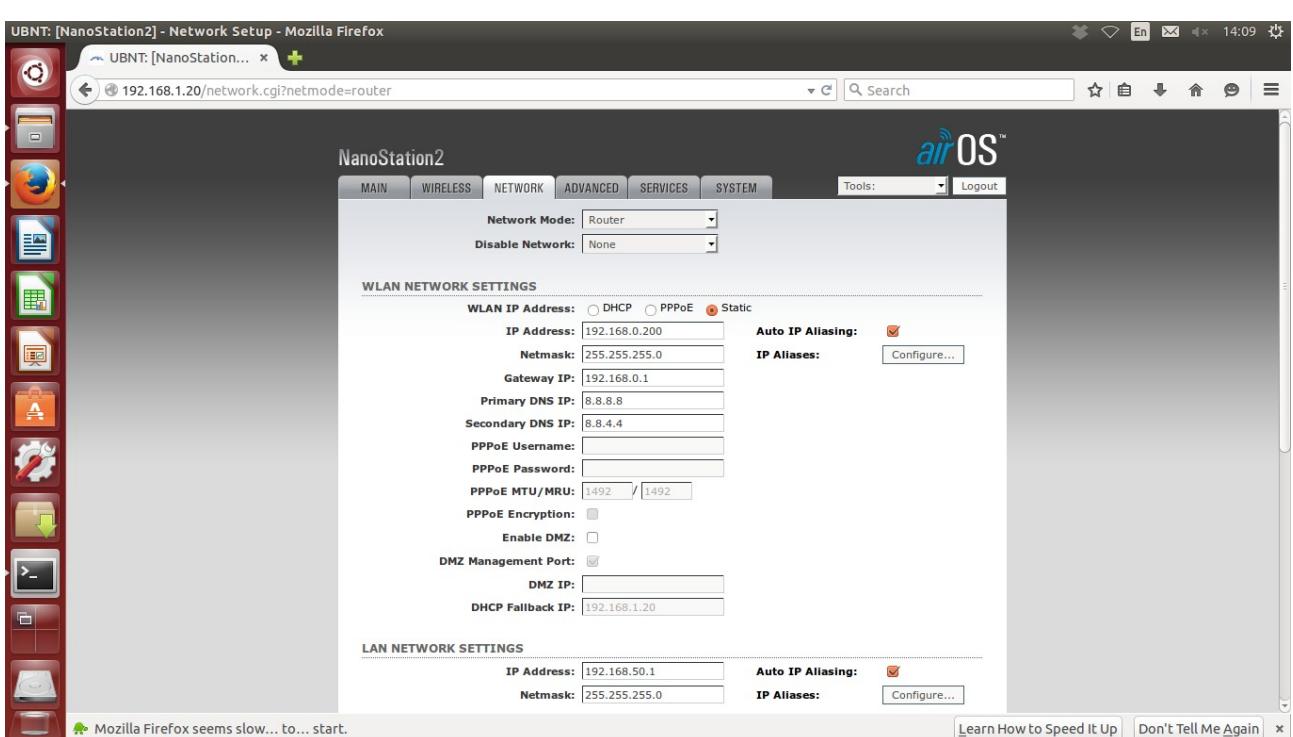


The screenshot shows the 'MAIN' tab of the airOS web interface. In the 'BASIC WIRELESS SETTINGS' section, 'Wireless Mode' is set to 'Station' and 'ESSID' is set to 'freeBSD'. The 'Country Code' is set to 'INDONESIA'. In the 'WIRELESS SECURITY' section, the 'Security' dropdown is set to 'WPA'. The 'Authentication Type' is set to 'Shared Key'. The 'WEP Key Length' is set to '64-bit'. The 'Key Type' is set to 'HEX'. The 'WEP Key' field is empty. The 'WPA Authentication' dropdown shows 'PSK' selected. The 'WPA Preshared Key' field contains a redacted value. The 'WPA Anonymous Identity', 'WPA User Name', and 'WPA User Password' fields are empty. At the bottom of the page, a copyright notice reads: '© Copyright 2006-2011 Ubiquiti Networks, Inc.'

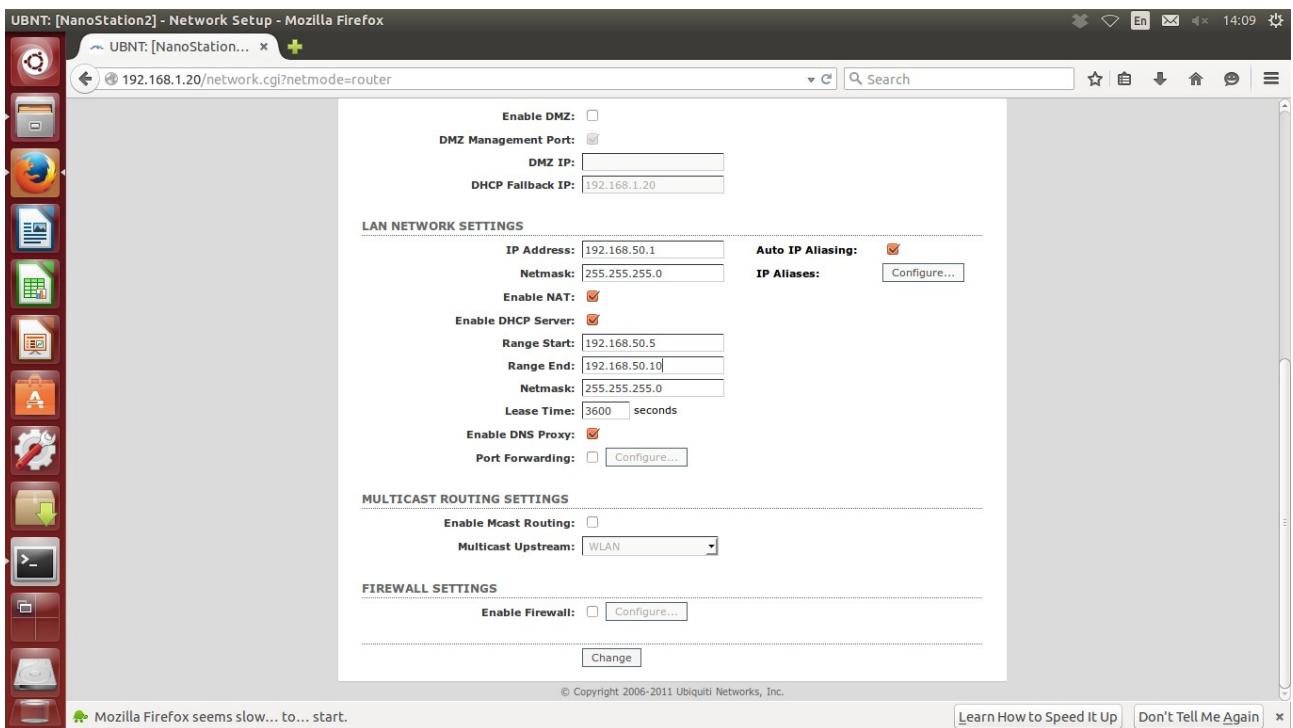
4. apply change.



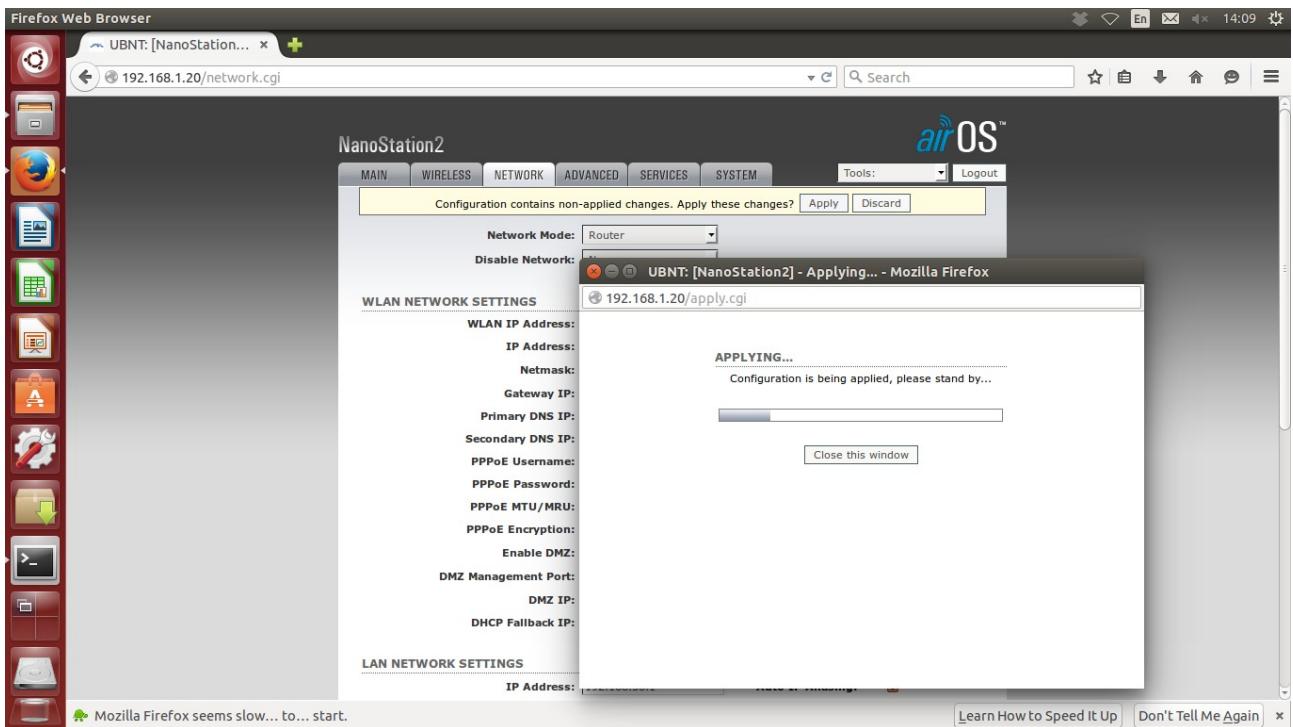
5. set network mode as router, etc depend on your needs, if you don't know WLAN info just set to DHCP.



6. set network LAN.



7. apply change.



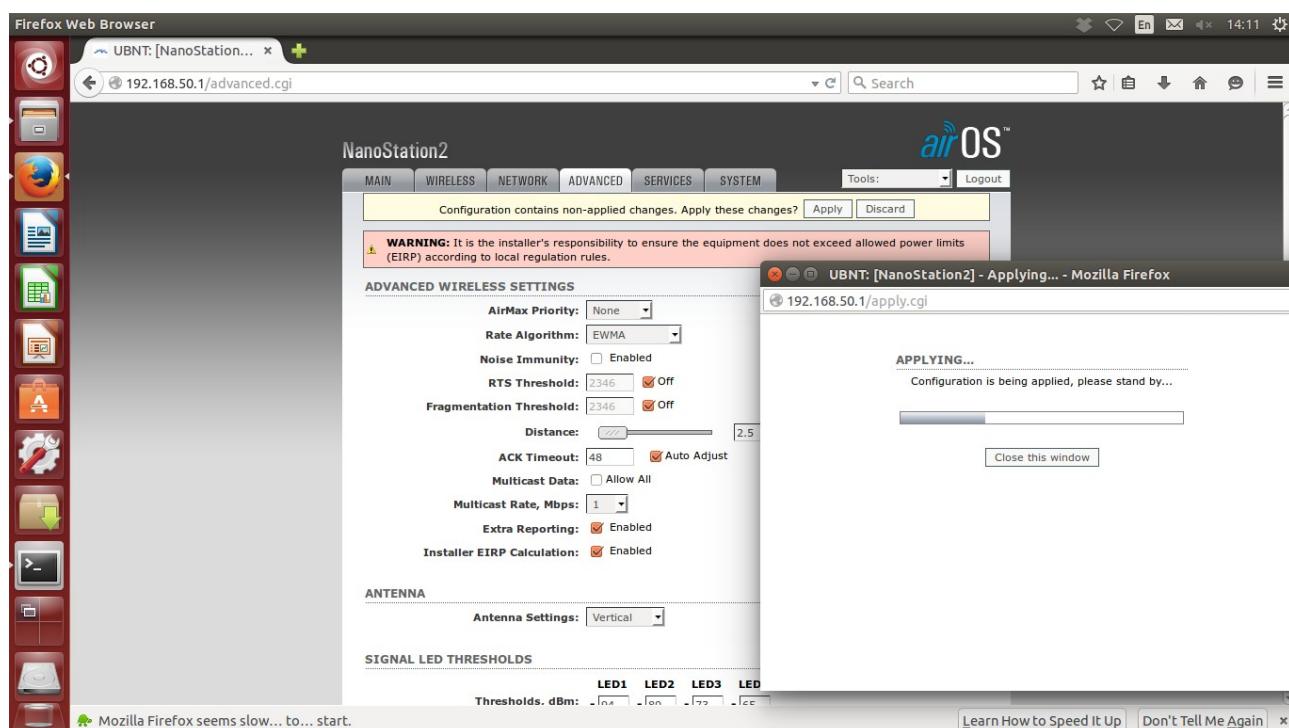
8. test client, set on dhcp.

```
root@cavs:/home/padli# ifconfig
eth0      Link encap:Ethernet HWaddr 14:da:e9:ad:9f:bc
          inet addr:192.168.50.8 Bcast:192.168.50.255 Mask:255.255.255.0
          inet6 addr: fe80::16da:e9ff:fead:9fbc/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:58193 errors:0 dropped:3 overruns:0 frame:0
          TX packets:42480 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:61850636 (61.8 MB) TX bytes:23095787 (23.0 MB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:65536 Metric:1
          RX packets:2868 errors:0 dropped:0 overruns:0 frame:0
          TX packets:2868 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:233761 (233.7 KB) TX bytes:233761 (233.7 KB)

root@cavs:/home/padli#
```

9. login ns2 on LAN (192.168.50.1), set advance depend on your needs & apply change.



10. cek status.

The screenshot shows the airOS web interface for a NanoStation2. The main menu on the left includes links for Firewall, Wireless, Network, Advanced, Services, System, Tools, and Logout. The current page is the STATUS page, which displays the following information:

Parameter	Value
Base Station SSID:	freeBSD
Signal Strength:	-71 dBm
AirMax Quality:	80% (represented by 8 green squares)
TX Rate:	24 Mbps
Frequency:	2447 MHz
Antenna:	Vertical
Security:	WPA
Transmit CCQ:	100%
Uptime:	00:08:28
LAN Cable:	ON
LAN MAC:	DC:9F:DB:A5:E1:5B
WLAN MAC:	DC:9F:DB:A4:E1:5B
Extra info:	-----
AP MAC:	F4:EC:38:9C:E1:AA
AirMax:	Disabled
AirMax Capacity:	- %
RX Rate:	36 Mbps
Channel:	8
Noise Floor:	-96 dBm
ACK Timeout:	27
QoS Status:	No QoS
Date:	2012-04-23 10:07:22
Host Name:	UBNT
LAN IP Address:	192.168.50.1
WLAN IP Address:	192.168.0.200

Below the main table are sections for LAN STATISTICS and WLAN STATISTICS, each with tables for Bytes, Packets, and Errors. The LAN section shows:

Statistic	Received	Transmitted
Bytes	3125387	11151397
Packets	6196	9762
Errors	0	0

The WLAN section shows:

Statistic	Bytes	Packets	Errors
Received			
Transmitted			

At the bottom of the page are links for "Learn How to Speed It Up" and "Don't Tell Me Again".

11. if signal poor, fix it on tools antenna alignment.

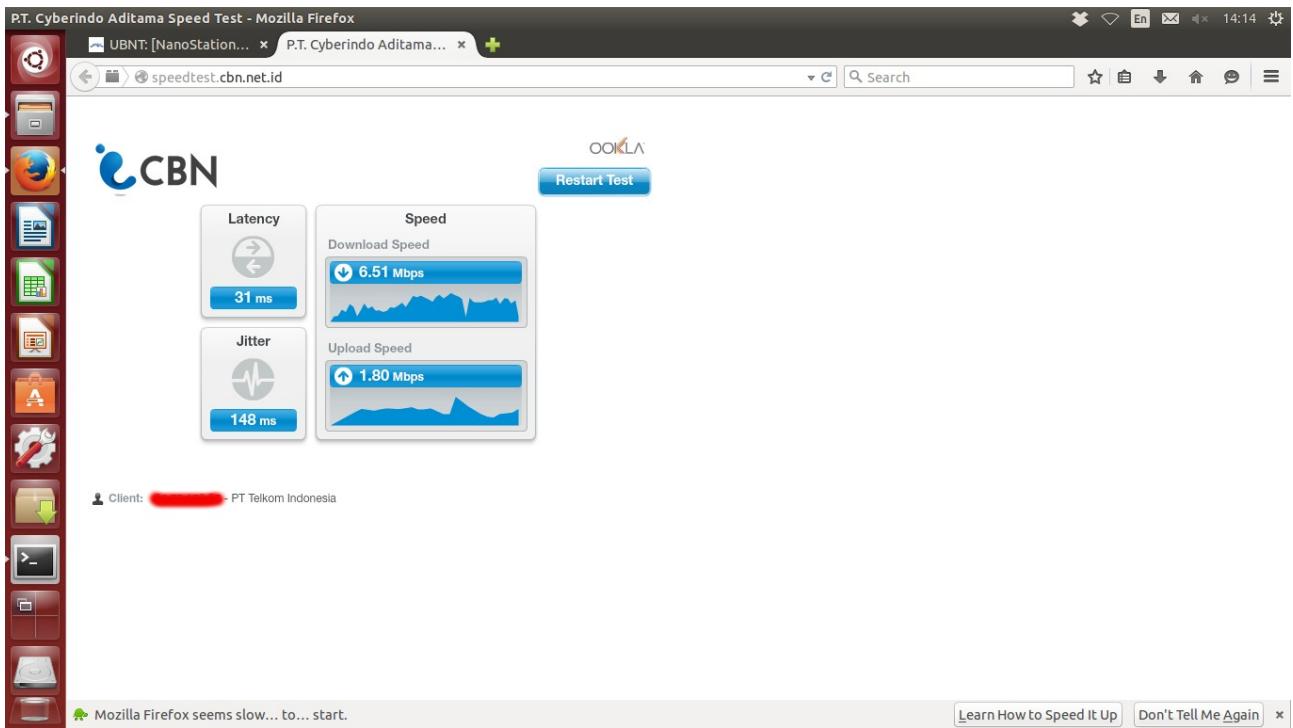
The screenshot shows the airOS web interface for a NanoStation2. The main menu on the left includes links for Firewall, Wireless, Network, Advanced, Services, System, Tools, and Logout. The current page is the SYSTEM page, which displays the following information:

Parameter	Value
Firmware Version:	X52.ar2316.v4.0.2.4996.120423.0955
HOST NAME:	UBNT: [NanoStation2] - Antenna alignment tool - Mozilla Firefox
ADMINISTRATIVE:	Administrator
READ-ONLY ACCOUNT:	Enable Read-Only Account
DATE SETTINGS:	Timezone: (GMT+07:00) Bangkok, Hanoi, Jakarta
	Enable Startup Date: <input checked="" type="checkbox"/>
	Startup Date: 07/30/2015

A modal window titled "UBNT: [NanoStation2] - Antenna alignment tool - Mozilla Firefox" is open, showing an antenna alignment tool. It displays a signal strength meter with 8 squares, labeled "-69 dBm", and a slider for the RSSI Range, currently set to 30. There is a "Close this window" button at the bottom of the modal.

At the bottom of the page are links for "Learn How to Speed It Up" and "Don't Tell Me Again".

12. tes speed.



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