

## CONFIG NANO STATION M2 P2P & PICO STATION M2HP AS AP

Note :

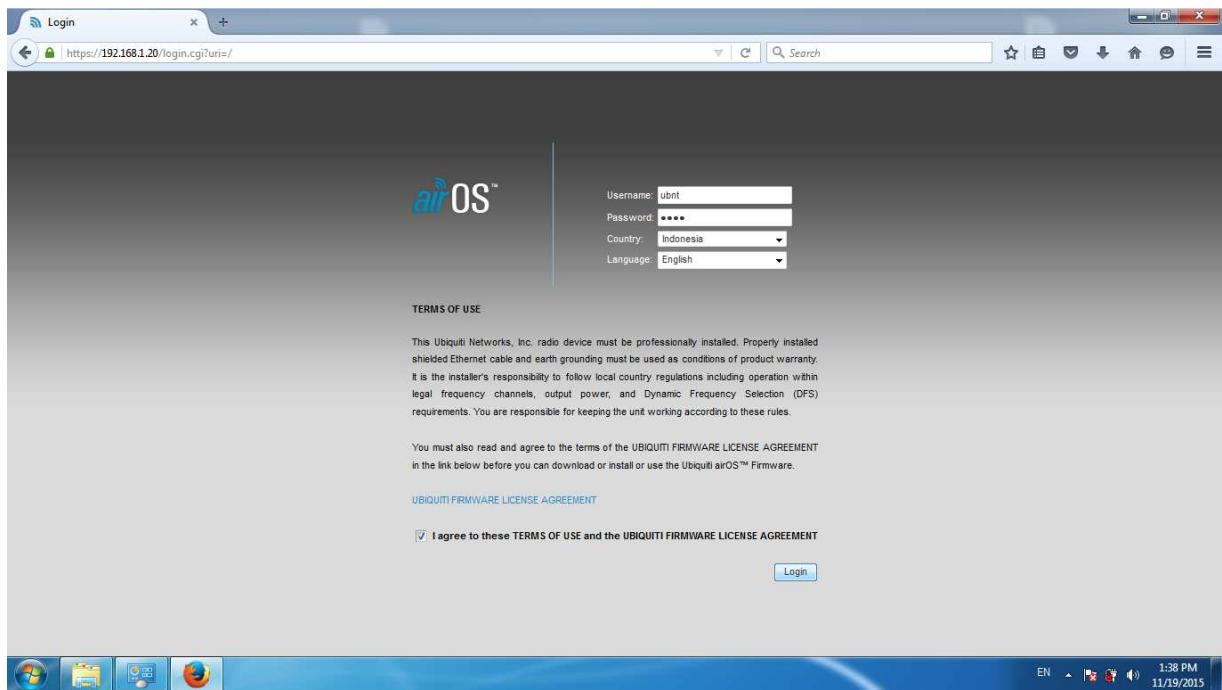
Topology (AP WDS ---- DISTANCE ---- STATION WDS & AP)

Internet Gateway	ip 192.168.11.1/248
NanoStation M2(1) as AcessPoint WDS	ip 192.168.11.2/248
NanoStation M2(2) as Station WDS	ip 192.168.11.3/248
PicoStation M2HP as AcessPoint	LAN ip 192.168.11.4/248
	WLAN ip 192.168.100.1/24
Client	DHCP ip 192.168.100.0/24

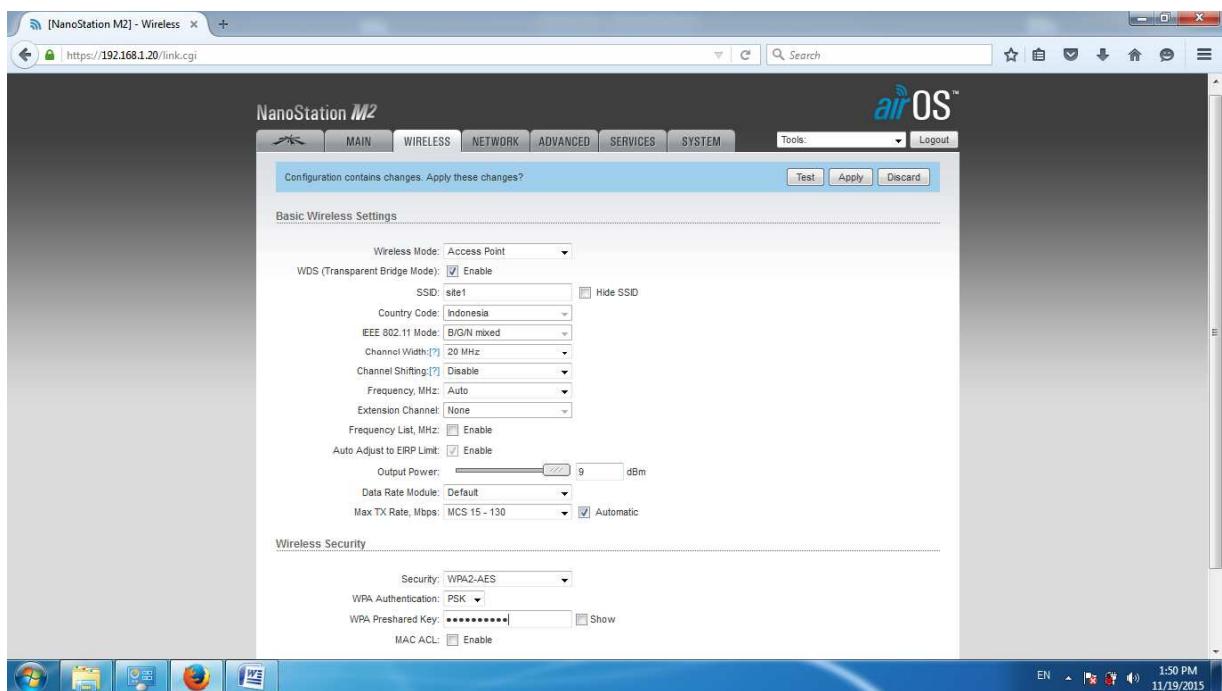


## NanoStation M2 (1) as AP WDS

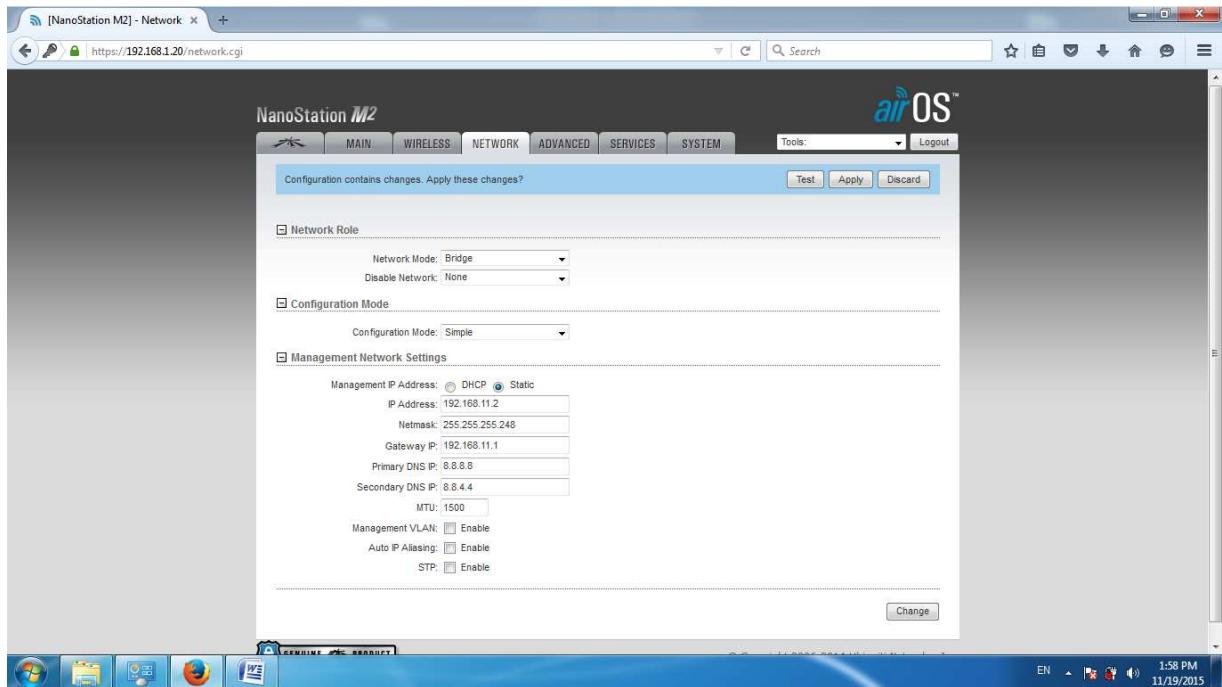
### 1. Default ip NS M2 192.168.1.20 with user & passwd ubnt.



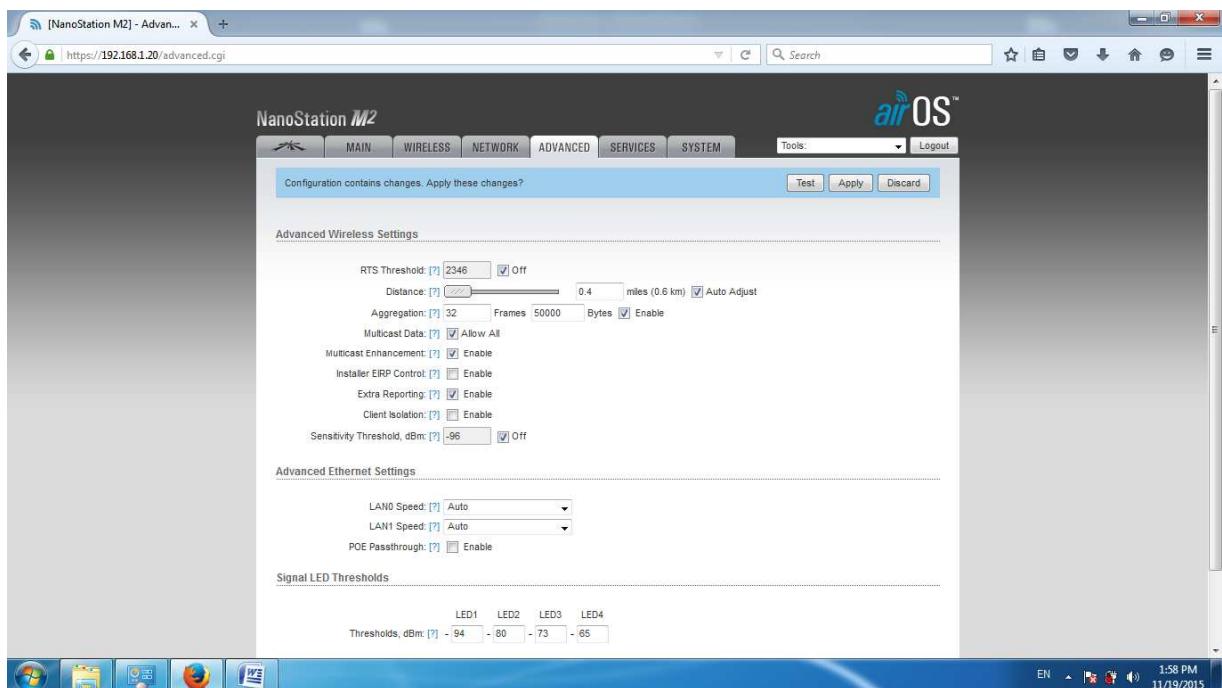
### 2. set wireless & change.



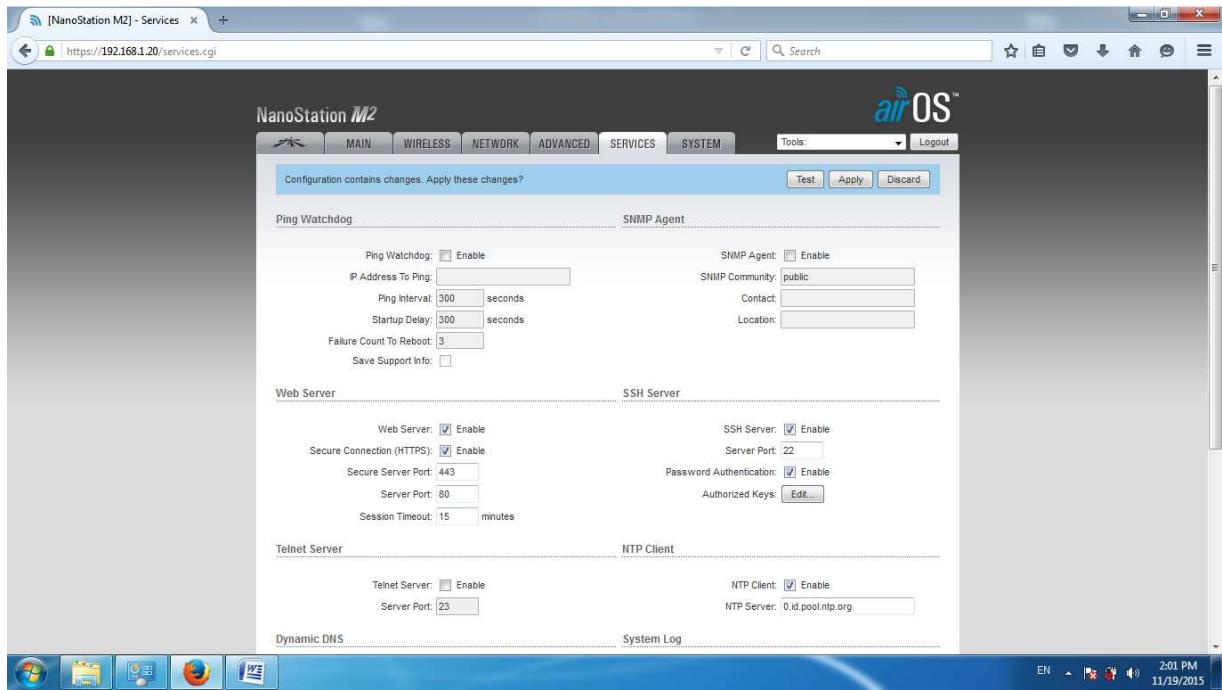
### 3. set network & change.



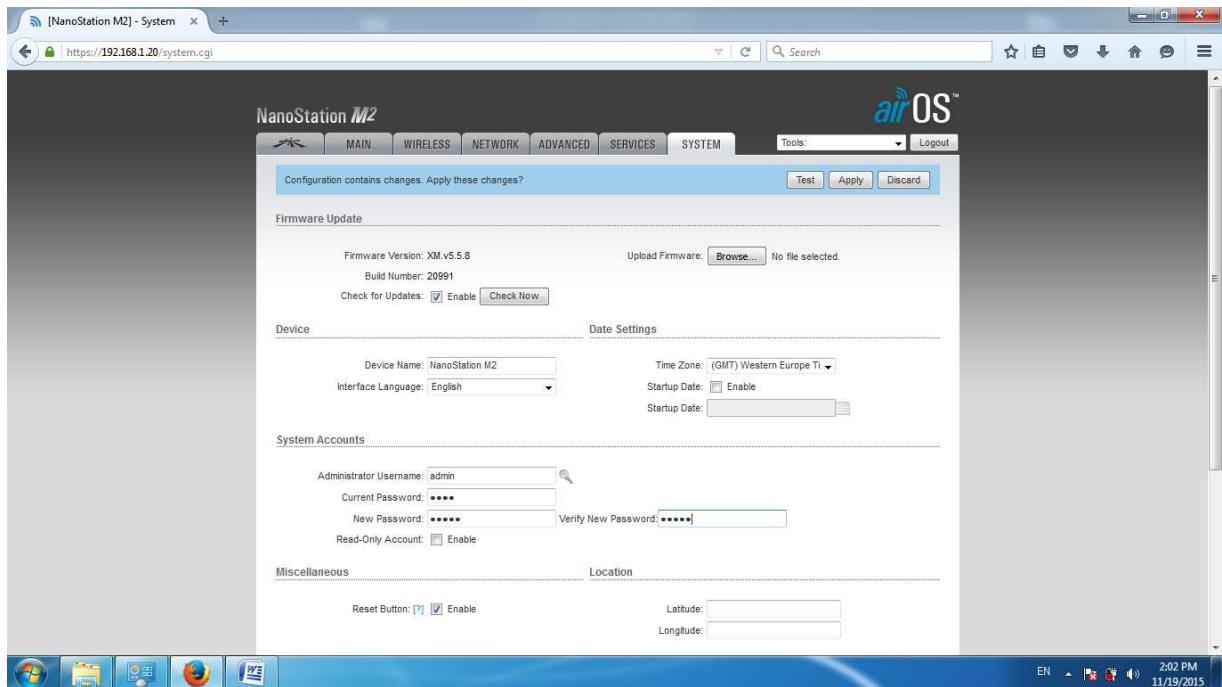
### 4. set advanced, config distance depend on your location, then change.



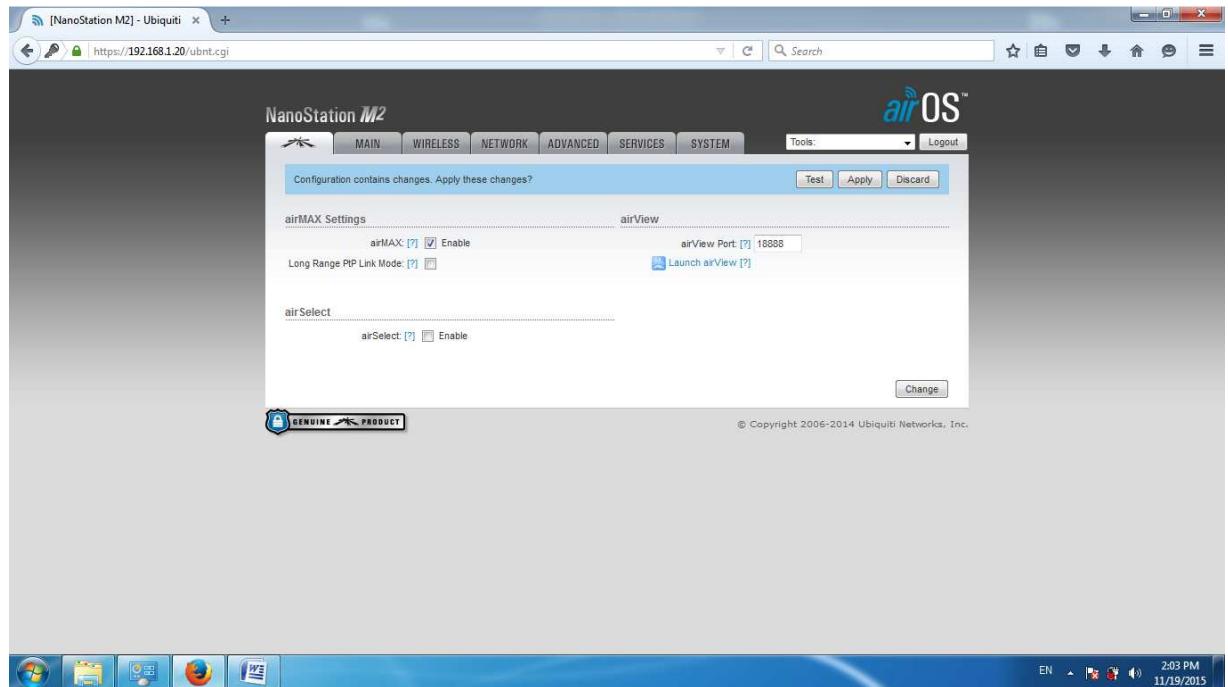
## 5. set services, enable NTP client & change.



## 6. set system, change default user & passwd, then change.

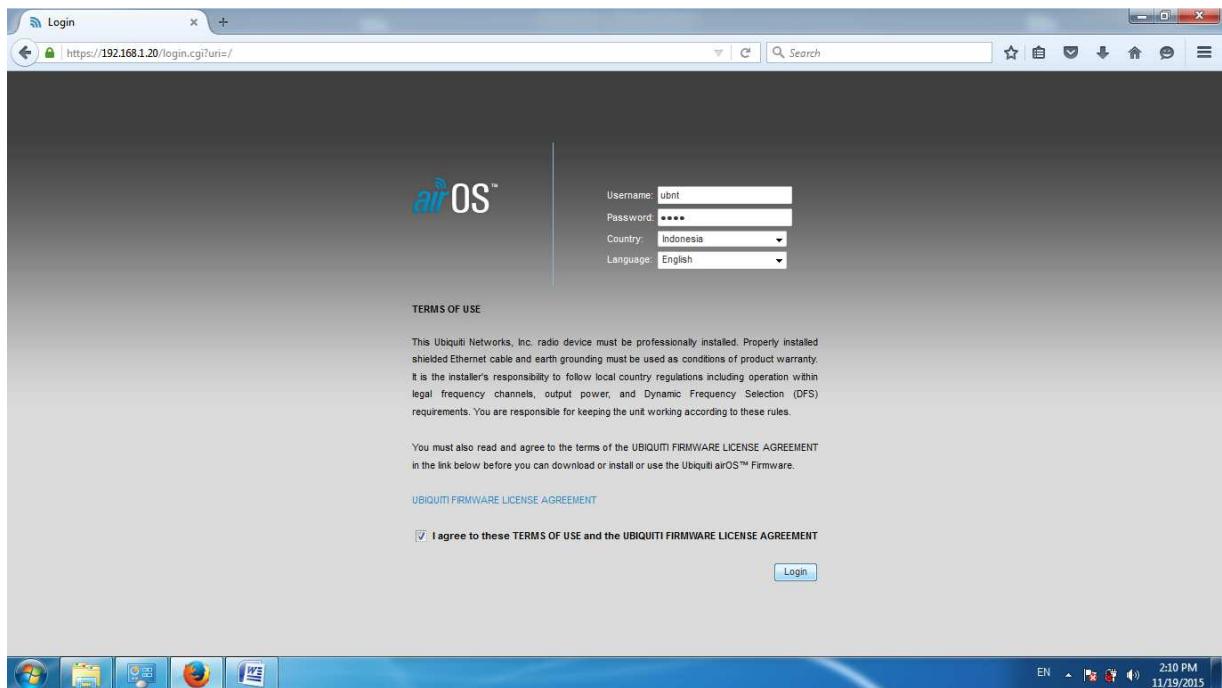


## 7. enable airMax & change, then apply all config.

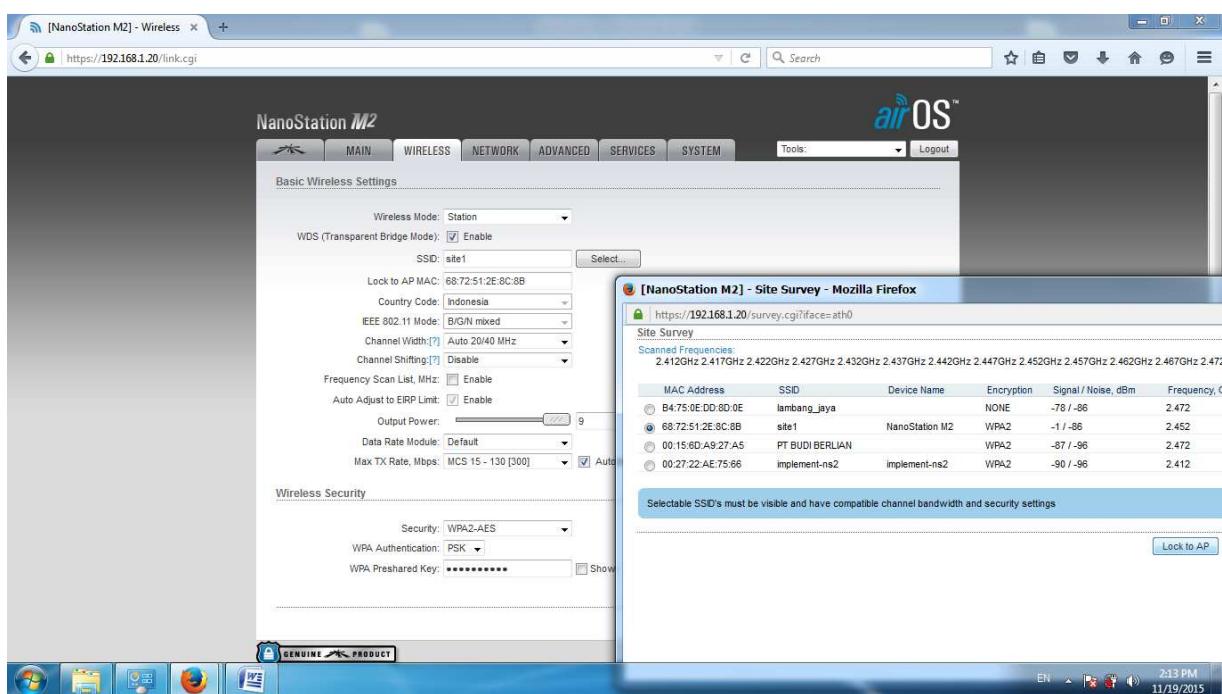


## NanoStation M2 (2) as Station WDS

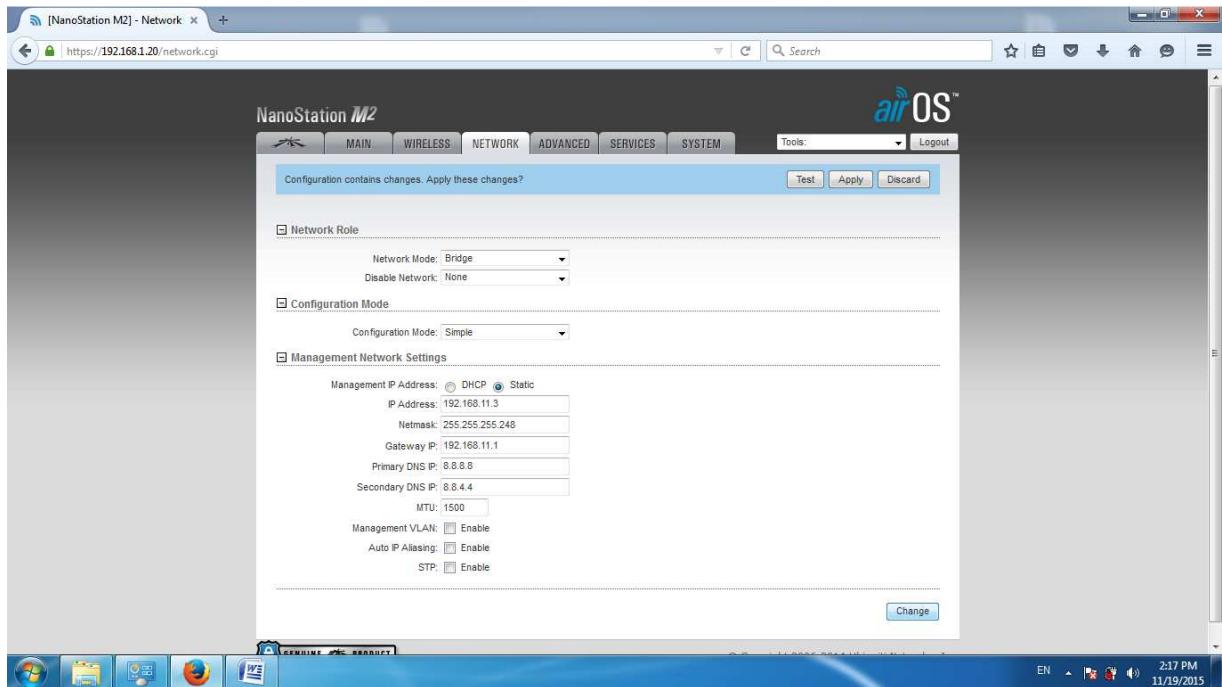
1. Default ip NS M2 192.168.1.20 with user & passwd ubnt.



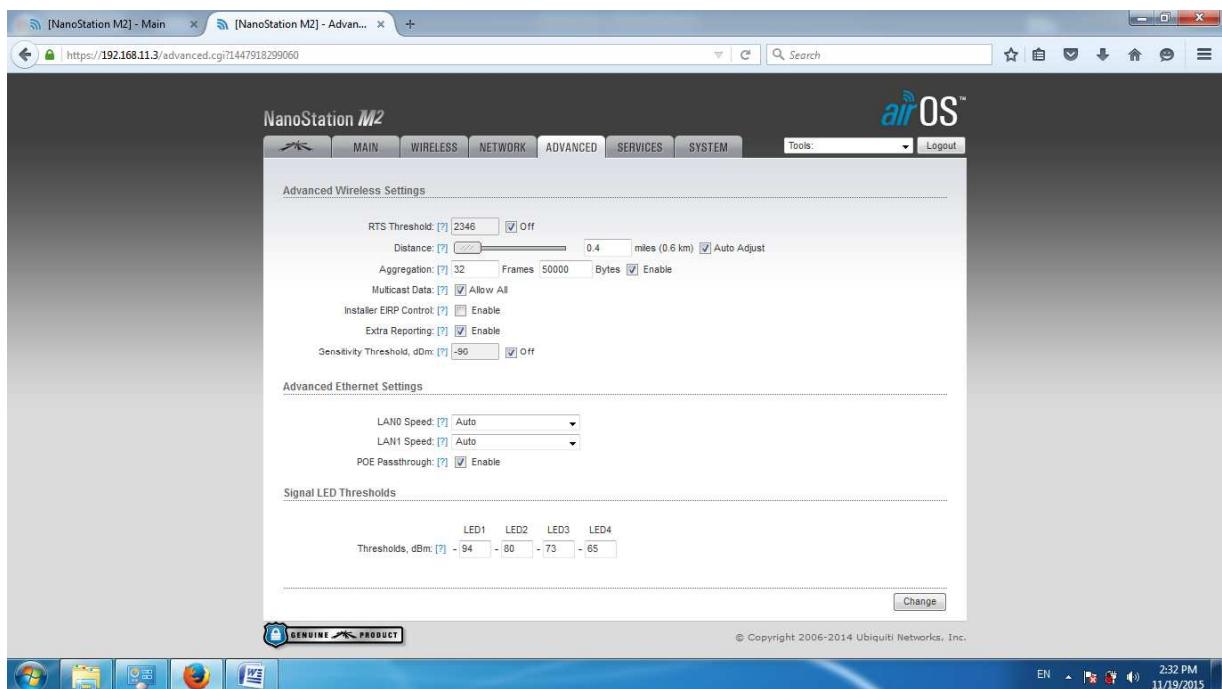
2. set wireless & change.



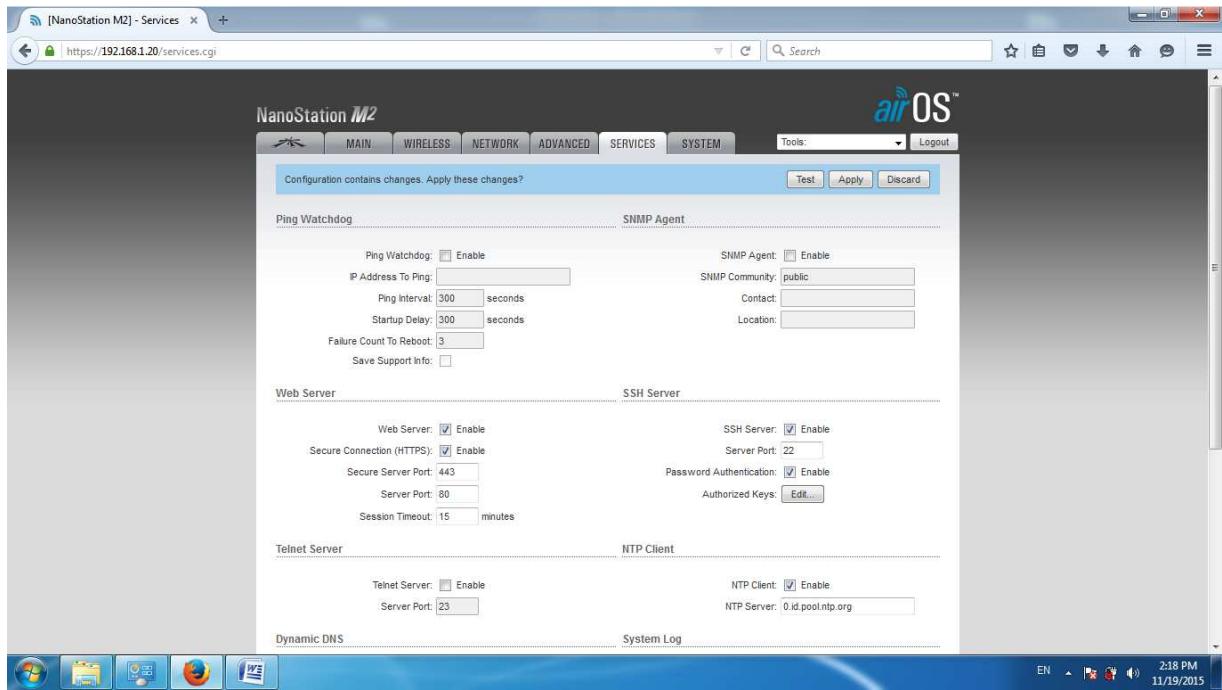
### 3. set network & change.



### 4. set advanced, enable POE passthrough. (give power to secondary port, used by picoStation M2HP)



## 5. set services, enable NTP client & change.



Configuration contains changes. Apply these changes?

**Ping Watchdog**

Ping Watchdog:  Enable  
IP Address To Ping:   
Ping Interval: 300 seconds  
Startup Delay: 300 seconds  
Failure Count To Reboot: 3  
Save Support Info:

**SNMP Agent**

SNMP Agent:  Enable  
SNMP Community: public  
Contact:   
Location:

**Web Server**

Web Server:  Enable  
Secure Connection (HTTPS):  Enable  
Secure Server Port: 443  
Server Port: 80  
Session Timeout: 15 minutes

**SSH Server**

SSH Server:  Enable  
Server Port: 22  
Password Authentication:  Enable  
Authorized Keys:

**Telnet Server**

Telnet Server:  Enable  
Server Port: 23

**NTP Client**

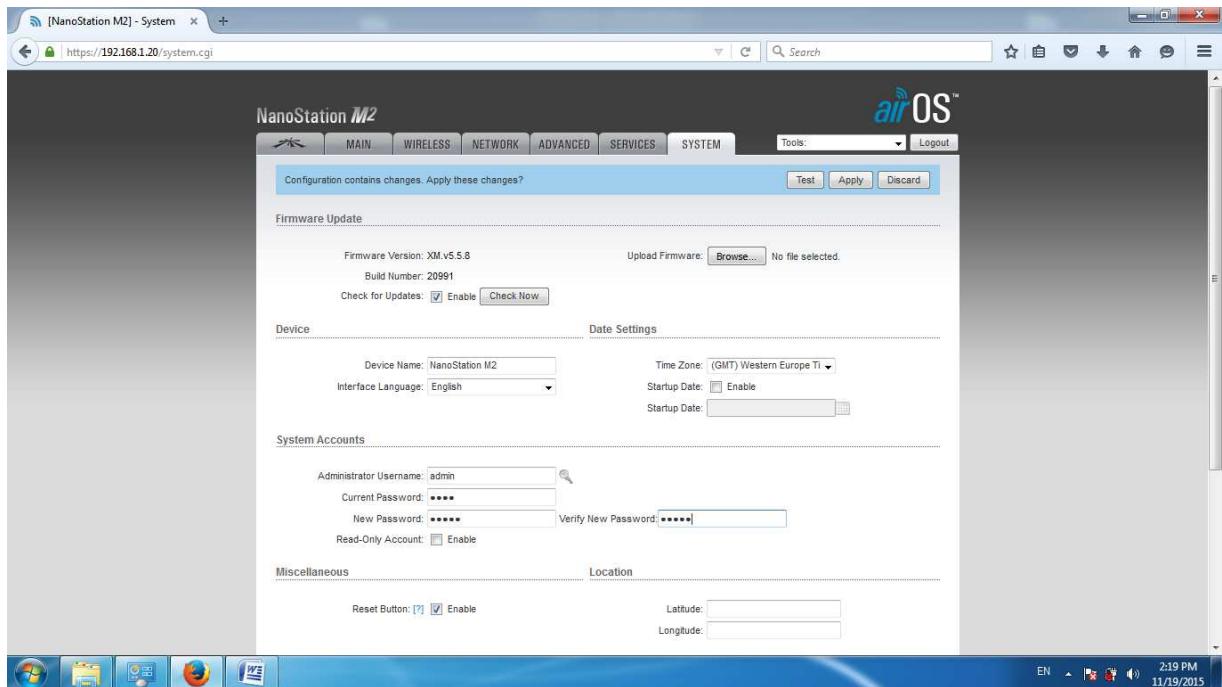
NTP Client:  Enable  
NTP Server: 0.id.pool.ntp.org

**Dynamic DNS**

**System Log**

EN 2:18 PM 11/19/2015

## 6. set system, change default user & passwd then change & apply all config.



Configuration contains changes. Apply these changes?

**Firmware Update**

Firmware Version: XM.v5.5.8  
Build Number: 20991  
Check for Updates:

**Device**

Device Name: NanoStation M2  
Interface Language: English

**Date Settings**

Time Zone: (GMT) Western Europe TI  
Startup Date:  Enable  
Startup Date:

**System Accounts**

Administrator Username: admin  
Current Password:   
New Password:   
Verify New Password:   
Read-Only Account:  Enable

**Miscellaneous**

Reset Button:   Enable

**Location**

Latitude:   
Longitude:

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## 7. well done

[NanoStation M2] - Main [NanoStation M2] - Main

https://192.168.11.2/index.cgi

Search

NanoStation M2

airOS™

MAIN WIRELESS NETWORK ADVANCED SERVICES SYSTEM Tools Logout

Status

Device Name: NanoStation M2 AP MAC: 68:72:51:2E:8C:8B  
Network Mode: Bridge Connections: 1  
Wireless Mode: Access Point WDS Noise Floor: -88 dBm  
SSID: site1 Transmit CCO: 93.7 %  
Security: WPA2-AES  
Version: v5.8  
Uptime: 00:53:10  
Date: 2015-11-19 07:28:31  
airMAX: Enabled  
airMAX Quality: 92 %  
airMAX Capacity: 79 %  
airSelect: Disabled

ChannelFrequency: 9 / 2452 MHz  
Channel Width: 20 MHz  
Distance: 0.1 miles (0.2 km)  
TX/RX Chains: 2X2  
WLAN0 MAC: 68:72:51:2E:8C:8B  
LAN0 MAC: 68:72:51:2F:8C:8B  
LAN1 MAC: 6A:72:51:2F:8C:8B  
LAN0 / LAN1: 100Mbps-Full / Unplugged

Monitor

Throughput | Stations | Interfaces | ARP Table | Bridge Table | Routes | Log

WLAN0 LAN0

250 300  
200 250  
150 200  
100 150  
50 100  
0 50

RX: 11.6kbps TX: 5.41kbps RX: 9.67kbps TX: 23.2kbps

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[NanoStation M2] - Main [NanoStation M2] - Main

https://192.168.11.3/index.cgi

Search

NanoStation M2

airOS™

MAIN WIRELESS NETWORK ADVANCED SERVICES SYSTEM Tools Logout

Status

Device Name: NanoStation M2 AP MAC: 68:72:51:2E:8C:8B  
Network Mode: Bridge Signal Strength: -1 dBm  
Wireless Mode: Station WDS Horizontal / Vertical: -1 / -31 dBm  
SSID: site1 Noise Floor: -87 dBm  
Security: WPA2-AES Transmit CCO: 99 %  
Version: v5.8 TX/RX Rate: 130 Mbps / 78 Mbps  
Uptime: 00:20:08  
Date: 2015-11-19 07:28:54  
airMAX: Enabled  
airMAX Priority: None  
airMAX Quality: 87 %  
airMAX Capacity: 79 %

ChannelFrequency: 9 / 2452 MHz  
Channel Width: 20 MHz  
Distance: 0.1 miles (0.2 km)  
TX/RX Chains: 2X2  
WLAN0 MAC: 68:72:51:2E:8C:99  
LAN0 MAC: 68:72:51:2F:8C:99  
LAN1 MAC: 6A:72:51:2F:8C:99  
LAN0 / LAN1: Unplugged / Unplugged

Monitor

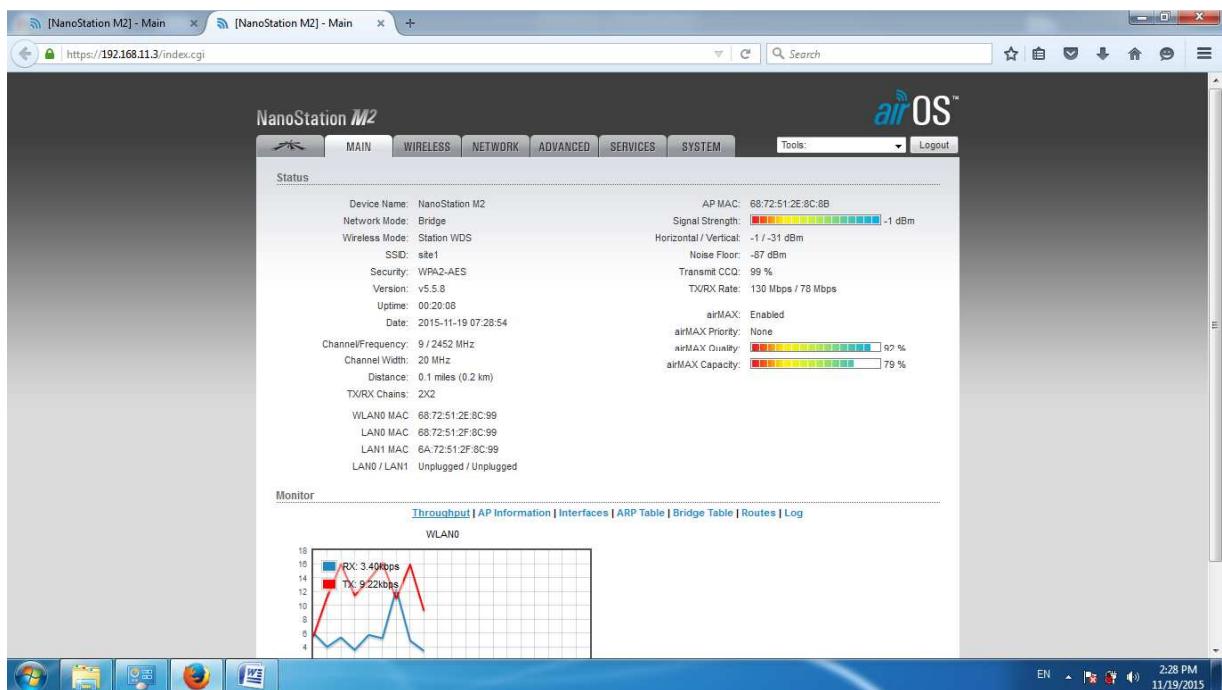
Throughput | AP Information | Interfaces | ARP Table | Bridge Table | Routes | Log

WLAN0

18 15 12 9 6 3 0

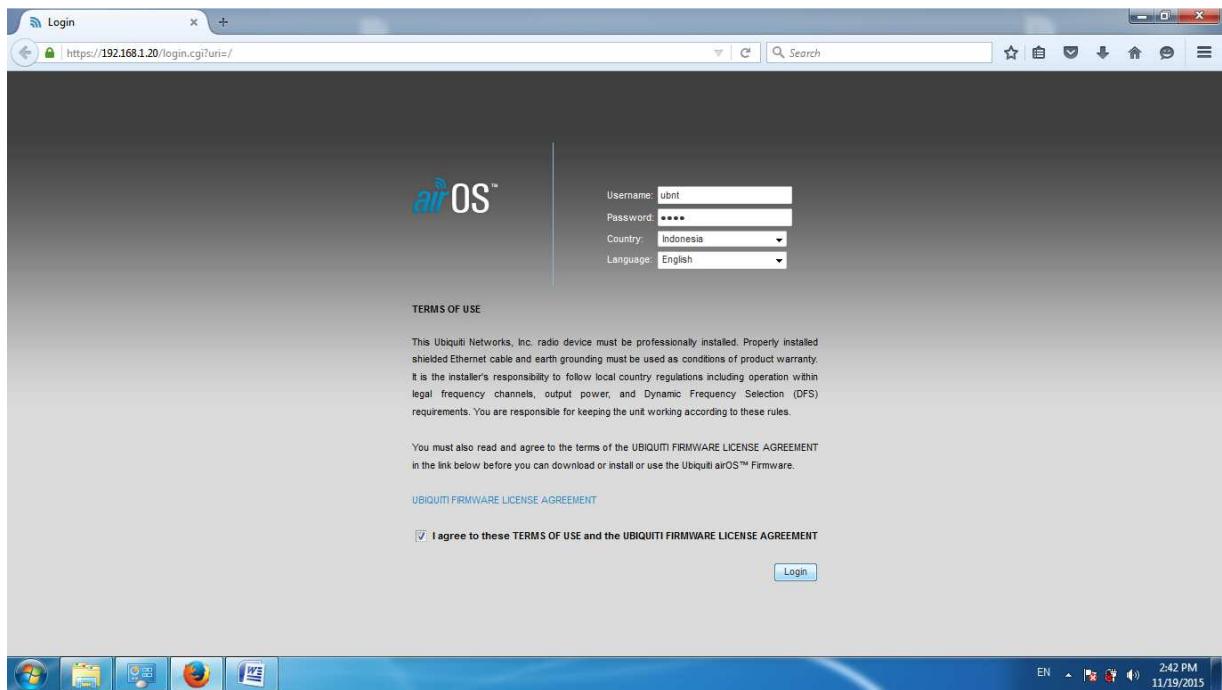
RX: 3.40kbps TX: 9.22kbps

EN 2:28 PM 11/19/2015

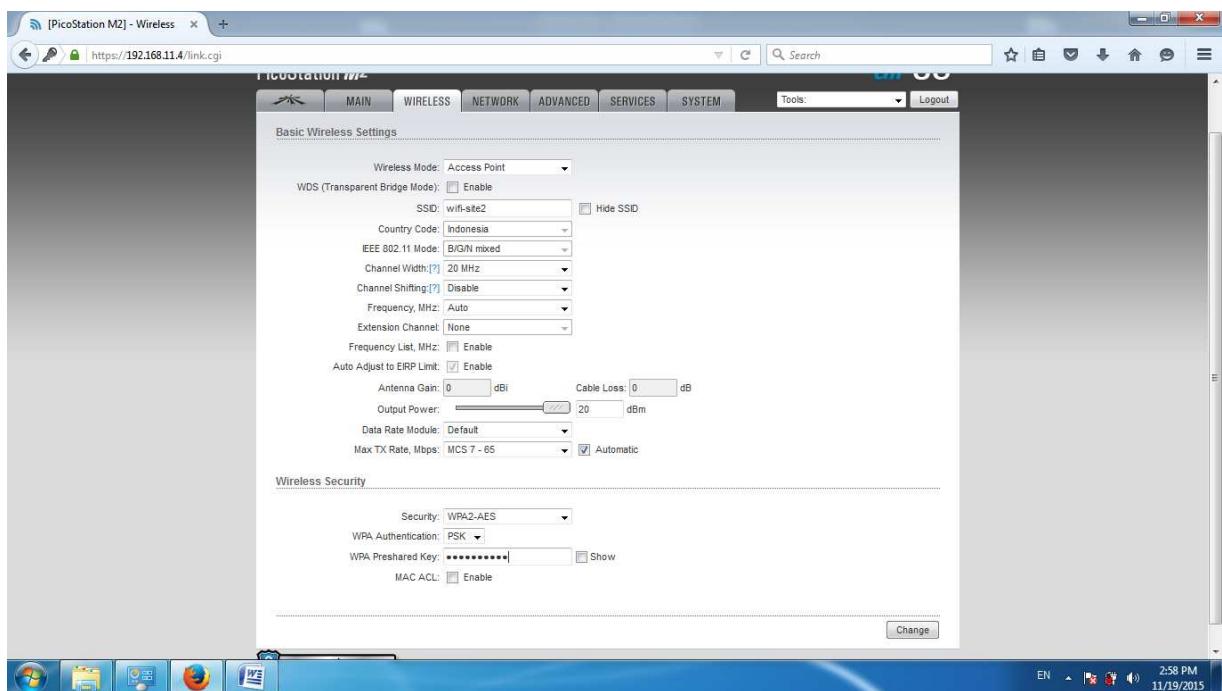


## PicoStation M2HP as AP

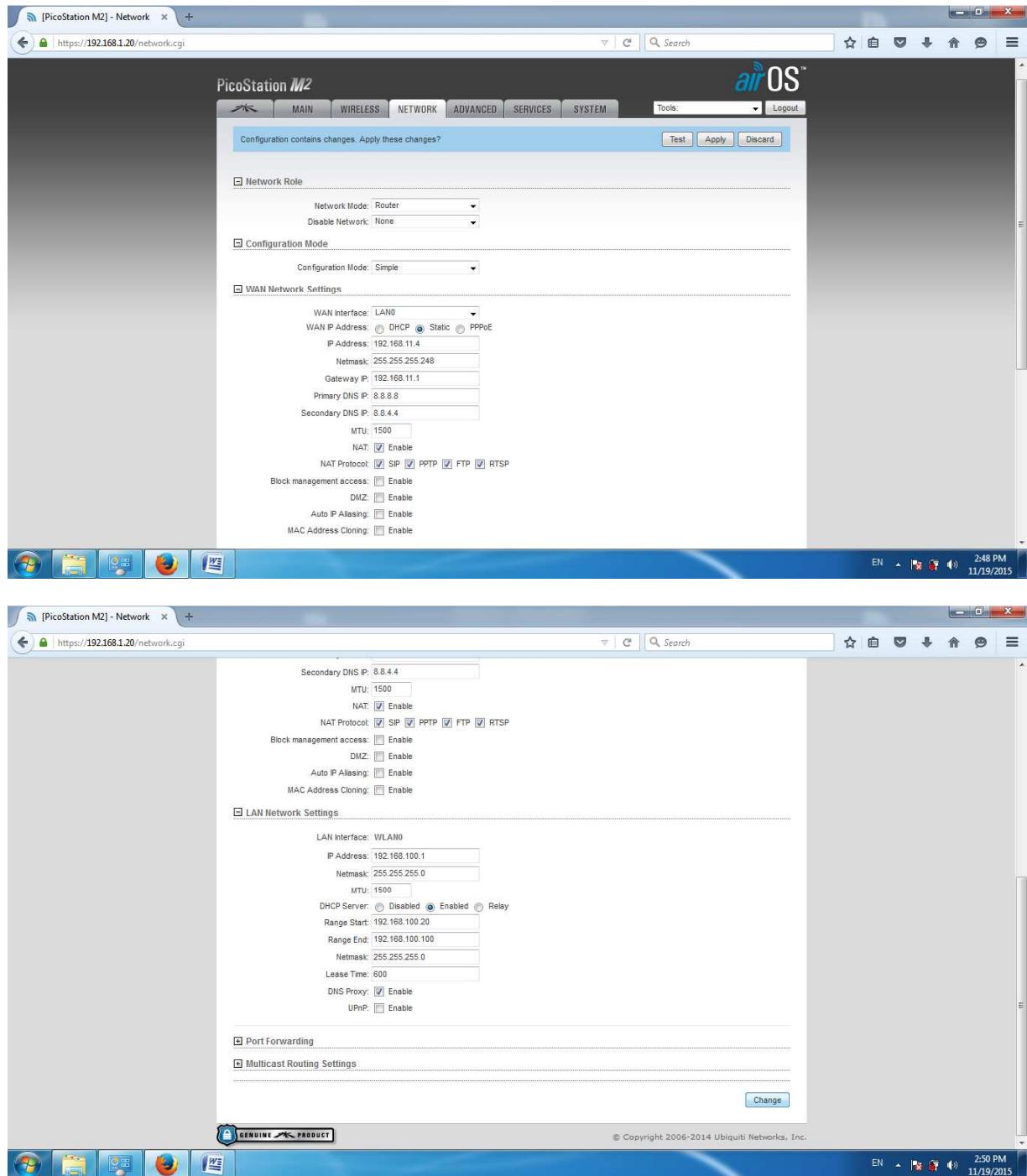
1. default ip PicoStation M2 is 192.168.1.20 with user & passwd ubnt.



## 2. set wireless & change.



### 3. set network & change.

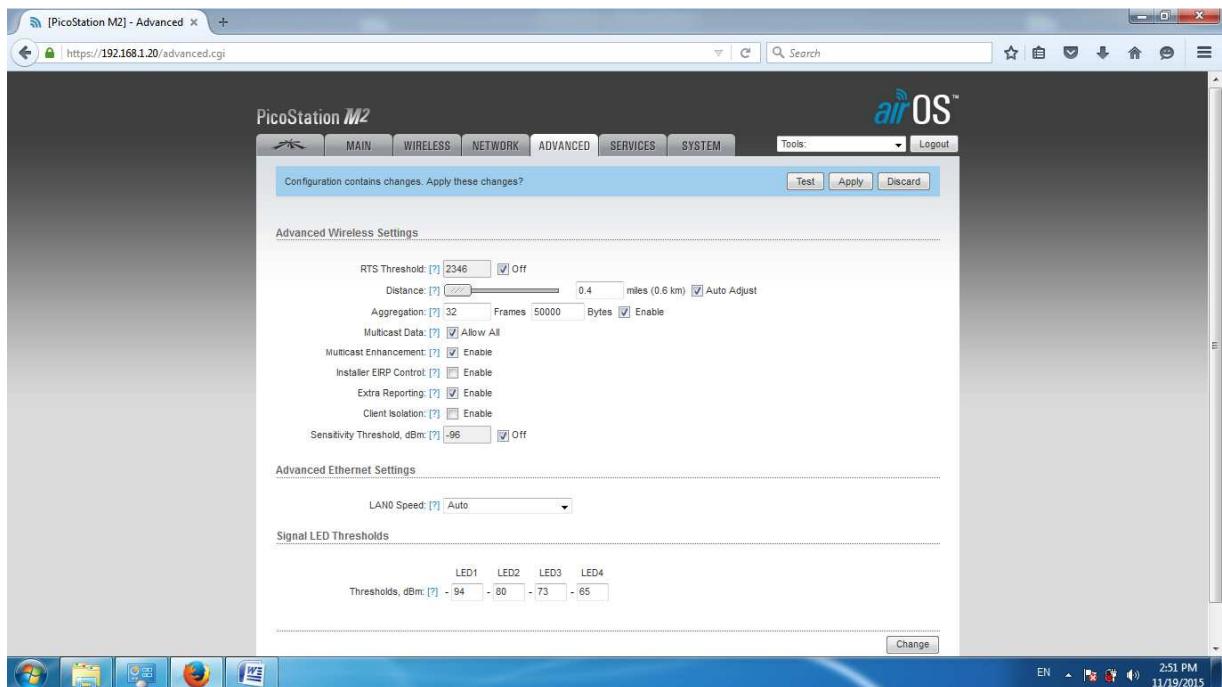


The screenshot shows the PicoStation M2 Network configuration interface. The top navigation bar includes MAIN, WIRELESS, NETWORK, ADVANCED, SERVICES, SYSTEM, and Tools. The NETWORK tab is selected. A message at the top says "Configuration contains changes. Apply these changes?" with buttons for Test, Apply, and Discard. The interface is divided into sections:

- Network Role:** Network Mode: Router, Disable Network: None
- Configuration Mode:** Configuration Mode: Simple
- WAN Network Settings:** WAN Interface: LAN0, WAN IP Address: Static (192.168.11.4), Netmask: 255.255.255.248, Gateway IP: 192.168.11.1, Primary DNS IP: 8.8.8.8, Secondary DNS IP: 8.8.4.4, MTU: 1500, NAT: Enabled, NAT Protocol: SIP, PPTP, FTP, RTSP. Block management access: Enabled, DMZ: Enabled, Auto IP Aliasing: Enabled, MAC Address Cloning: Enabled.
- LAN Network Settings:** LAN Interface: WLAN0, IP Address: 192.168.100.1, Netmask: 255.255.255.0, MTU: 1500, DHCP Server: Enabled, Range Start: 192.168.100.20, Range End: 192.168.100.100, Netmask: 255.255.255.0, Lease Time: 600, DNS Proxy: Enabled, UPnP: Enabled.
- Port Forwarding**
- Multicast Routing Settings**

At the bottom, there is a "Change" button and a "GENUINE PRODUCT" badge. The status bar shows "EN 2:48 PM 11/19/2015".

#### 4. set advanced & change.



Configuration contains changes. Apply these changes?

Test Apply Discard

Advanced Wireless Settings

RTS Threshold: 2346 Off

Distance: 0.4 miles (0.6 km) Auto Adjust

Aggregation: 32 Frames 50000 Bytes Enable

Multicast Data: Allow All

Multicast Enhancement: Enable

Installer EIRP Control: Enable

Extra Reporting: Enable

Client Isolation: Enable

Sensitivity Threshold, dBm: -96 Off

Advanced Ethernet Settings

LAN0 Speed: Auto

Signal LED Thresholds

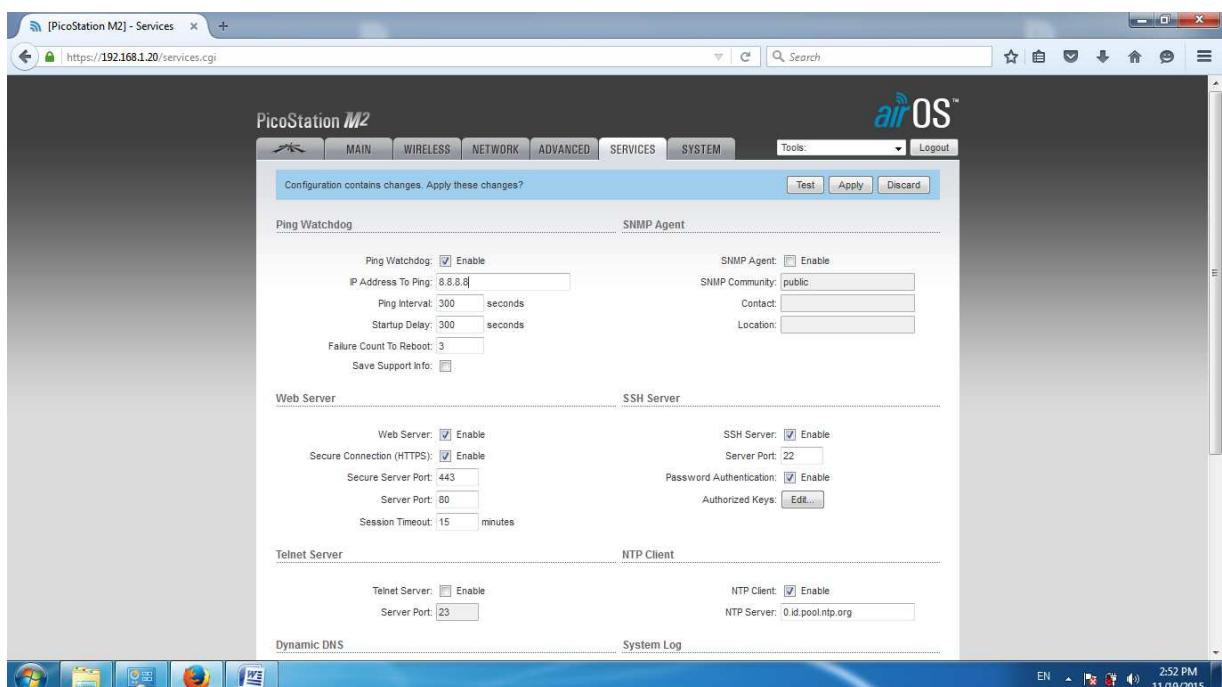
LED1 LED2 LED3 LED4

Thresholds, dBm: -94 -80 -73 -65

Change

EN 2:51 PM 11/19/2015

#### 5. set services, enable NTP client.



Configuration contains changes. Apply these changes?

Test Apply Discard

Ping Watchdog

Ping Watchdog: Enable

IP Address To Ping: 8.8.8.8

Ping Interval: 300 seconds

Startup Delay: 300 seconds

Failure Count To Reboot: 3

Save Support Info:

SNMP Agent

SNMP Agent: Enable

SNMP Community: public

Contact:

Location:

Web Server

Web Server: Enable

Secure Connection (HTTPS): Enable

Secure Server Port: 443

Server Port: 80

Session Timeout: 15 minutes

SSH Server

SSH Server: Enable

Server Port: 22

Password Authentication: Enable

Authorized Keys: Edit...

Telnet Server

Telnet Server: Enable

Server Port: 23

NTP Client

NTP Client: Enable

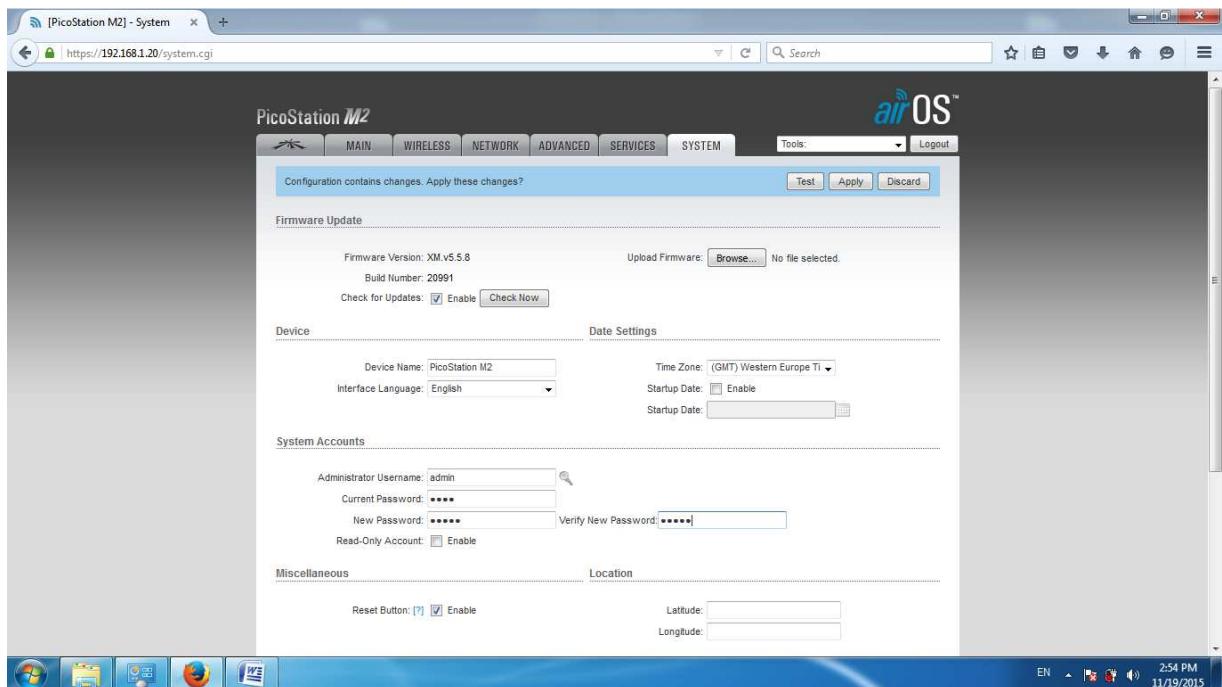
NTP Server: 0.id.pool.ntp.org

Dynamic DNS

System Log

EN 2:52 PM 11/19/2015

## 6. set system, change default user & passwd.



PicoStation M2 - System

Configuration contains changes. Apply these changes?

Firmware Update

Firmware Version: XM.v5.5.8  
Build Number: 20991  
Check for Updates:  Enable

Device

Device Name: PicoStation M2  
Interface Language: English

Date Settings

Time Zone: (GMT) Western Europe TI  
Startup Date:  Enable

System Accounts

Administrator Username: admin  
Current Password:

New Password:  Verify New Password:

Read-Only Account:  Enable

Miscellaneous

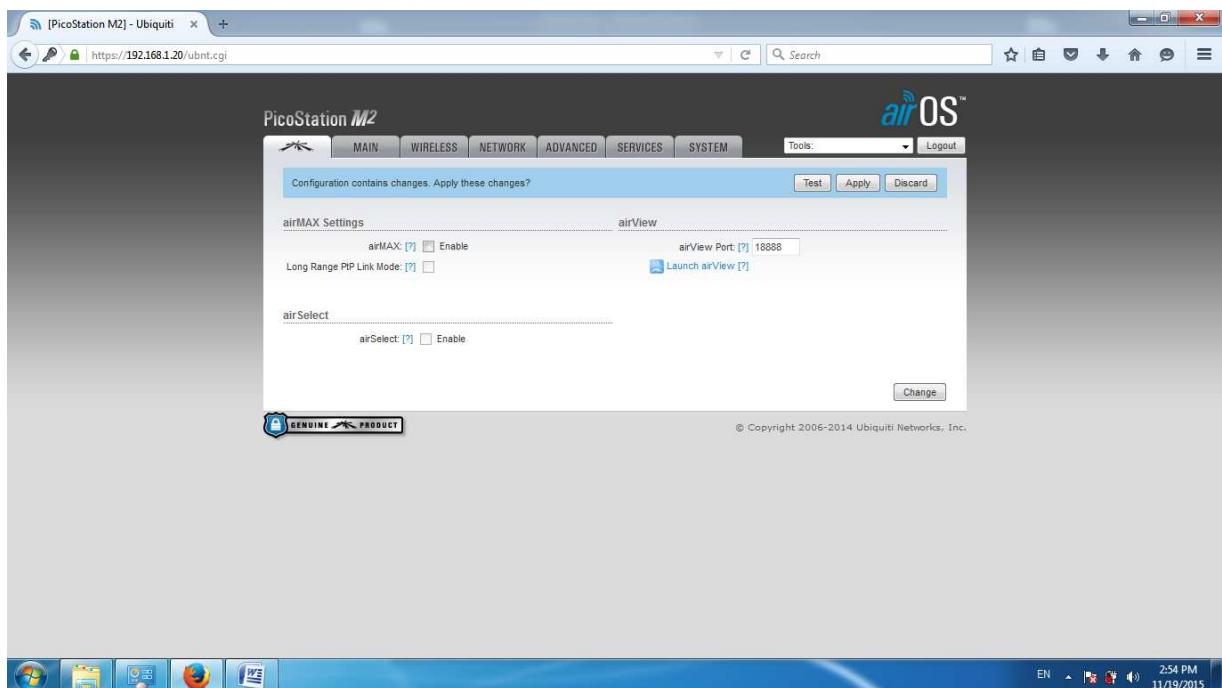
Reset Button:   Enable

Location

Latitude:   
Longitude:

EN 2:54 PM 11/19/2015

## 7. disable airMax & change, then apply all config.



PicoStation M2 - Ubiquiti

Configuration contains changes. Apply these changes?

airMAX Settings

airMAX:   Enable  
Long Range PTP Link Mode:

airView

airView Port:  18888

airSelect

airSelect:   Enable

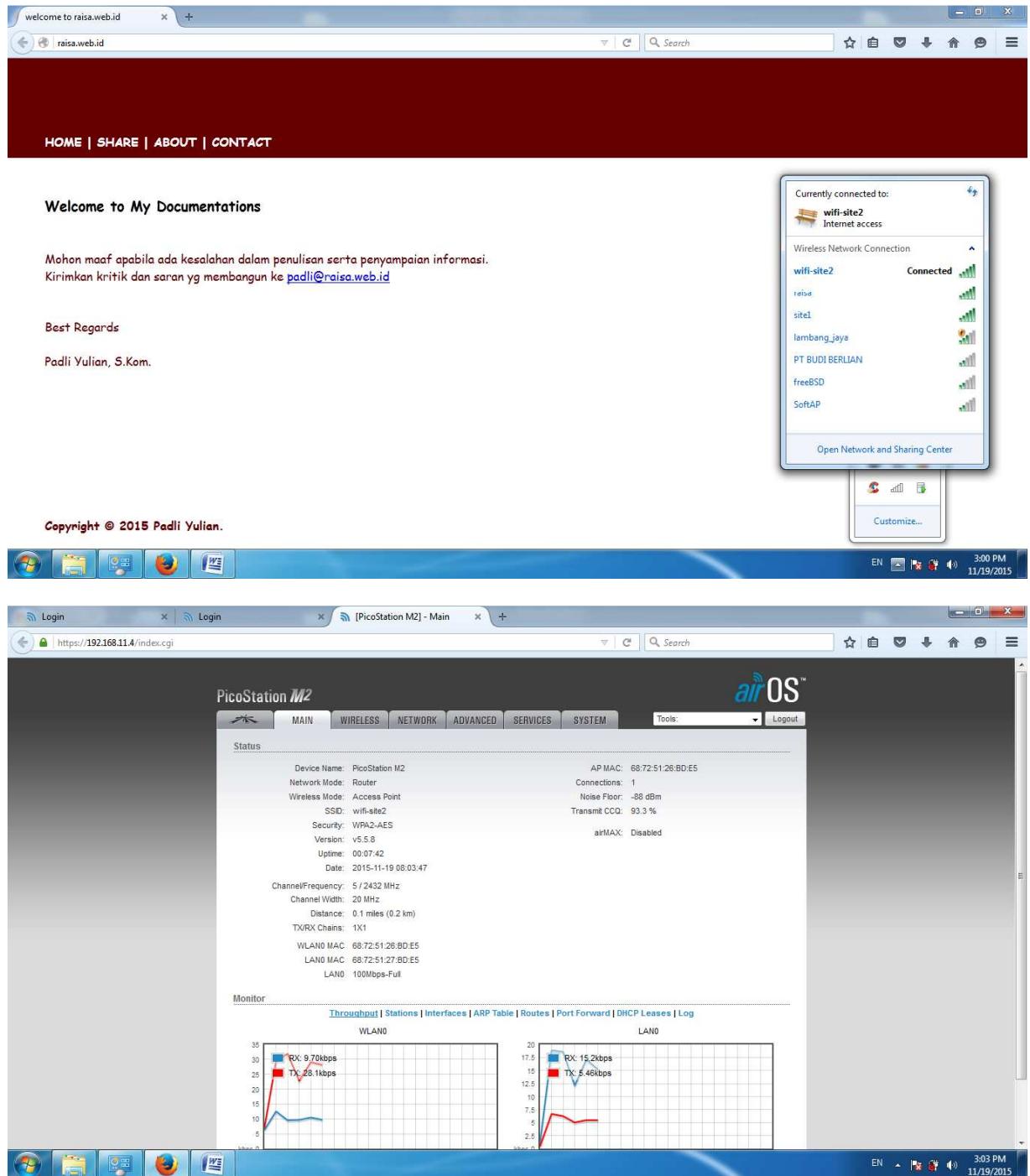
Change

GENUINE PRODUCT

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## 8. try connect to wifi.



Dok 20/11/2015 padliyulian@ymail.com