



México -2018



The Dude


MERCADOWISPMEXICO



Acerca del Expositor

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Certificaciones: **MTCNA, MTCWE, MTCTCE, MTCRE, MTCINE.**

Ocupacion:

- Consultor Certificado Mikrotik.
- Soporte y Asesoría En Redes y Enlaces Inalámbricos
- Implementación De Soluciones Llave En Mano
- Soporte Mensual o Por Evento a WISPs

Acerca de la Empresa

Mercado Wisp Mexico

Fundada en el año 2015 con la finalidad de comercializar productos y asesorías para el óptimo funcionamiento de un Wisp. Creando un grupo en Facebook el cual actualmente cuenta con más de 13 mil usuarios donde se comparten experiencias, soluciones, tips y recomendaciones en todo lo relacionado a redes informáticas y otras tecnologías.



Mercado Wisp Mexico

Es socio estrategico de Ecatel bolivia y trae certificaciones oficiales mikrotik, por primera ocacion.

MTCNA Y MTCUME de 18 a 21 de Abril de 2018.



MERCADOWISPMEXICO



Acerca de la Empresa

MISIÓN:

Ofrecer soluciones viables y profesionales con el propósito de impulsar el desarrollo de pequeñas y medianas empresas dedicadas al área de telecomunicaciones en Latinoamérica.

VISIÓN:

Posicionarse como una empresa líder a nivel internacional brindando soluciones específicas para satisfacer la necesidad del usuario final contando con personal calificado.



Resumen

- Que es The Dude? Como funciona The Dude?
- Como instalo The Dude?
- Configuracion basica en The Dude
- Configuraciones personalizadas en The Dude
- Demostración
- Recomendaciones



The Dude

Es una aplicación para monitoreo gratuita de Mikrotik, que puede mejorar de manera drástica el modo en que administras tu red.

Algunas funciones que podrias realizar con de The Dude son:

The Dude



- ❖ Diagrama visual de tu red.
- ❖ Manejo de multiples mapas o submapas de red.
- ❖ Escaneos automaticos de subredes o dispositivos.
- ❖ Monitoreo de diferentes tipos de servicios.
- ❖ Diferentes metodos de notificaciones.
- ❖ Historial de eventos y graficos de consumo.
- ❖ Gestion individual o simultanea de dispositivos mikrotik con aplicaciones adicionales.
- ❖ Actualizaciones simultaneas de dispositivos mikrotik.



The Dude

The Dude es una aplicacion **NMS** (**N**o es **M**uy **S**imple)
pero...

Si hace que tu vida sea mas simple!!!

The Dude



- The Dude es una aplicación **NMS** (**N**etwork **M**onitoring **S**ystem). O bien central de monitoreo.
- The Dude utiliza los siguientes protocolos para monitoreo de red:

The Dude



- ❖ **SNMP** (Simple Network Management Protocol).
 - Usado para recolectar y organizar informacion acerca del manejo de dispositivos de red.
 - Tambien para modificar esa informacion y cambiar el comportamiendo del dispositivo .
- ❖ **Syslog** es la manera para que los dispositivos de red envíen mensajes de eventos a un servidor de logs.
- ❖ **ROS** (ros_command, Propietario de MikroTik) .

The Dude

Se compone de 2 partes:

Cliente Dude:

- Desarrollado para Windows, Linux, Mac OS.

Servidor Dude paquete routers para hardware:

- Tile. Seres CCR.
- ARM
- RouterOS x86
- CHR
- mmips!!!!



➤ Debes tener RouterOS v6.34rc13 o superior para utilizar The Dude.

Instalacion The Dude:



Home About Buy Jobs Hardware Software Support Training Account

Software

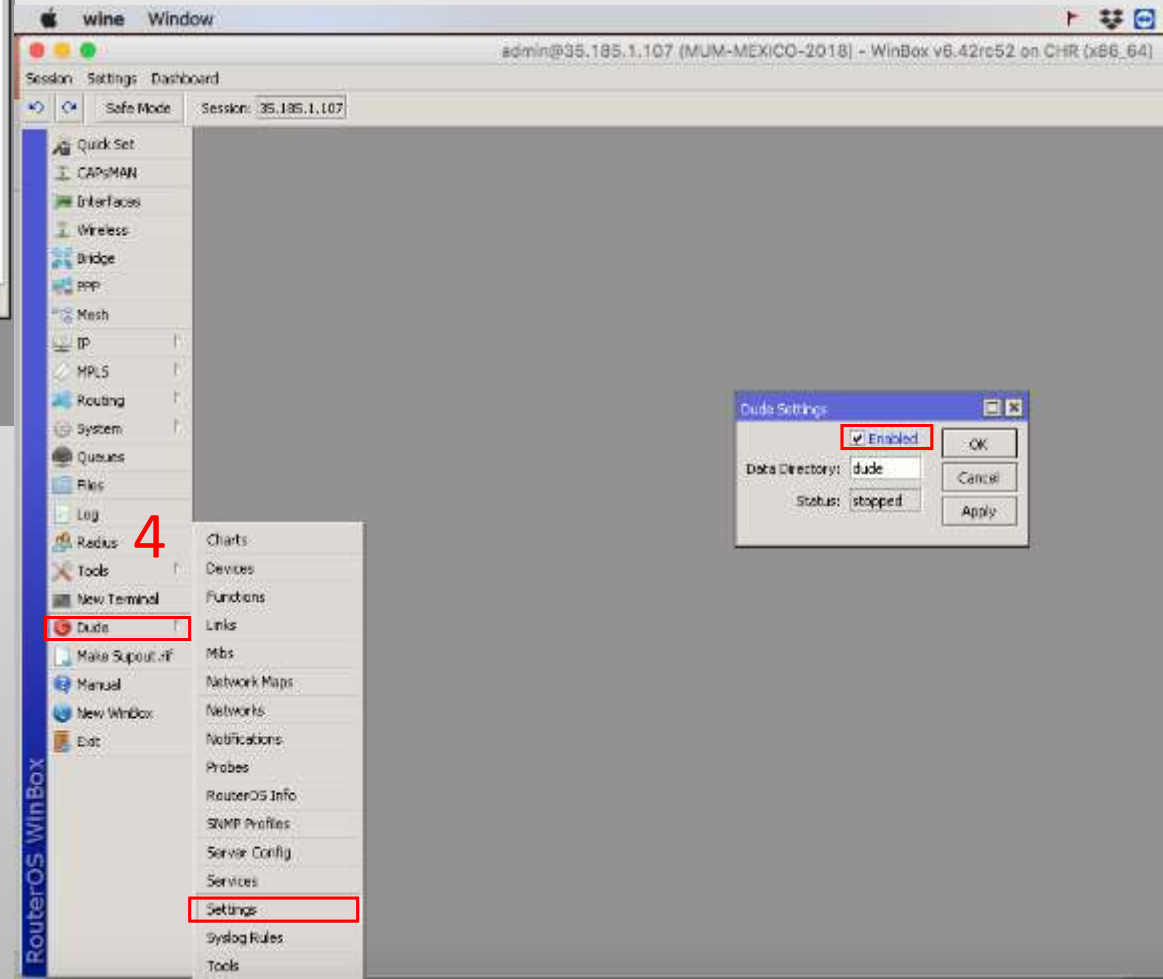
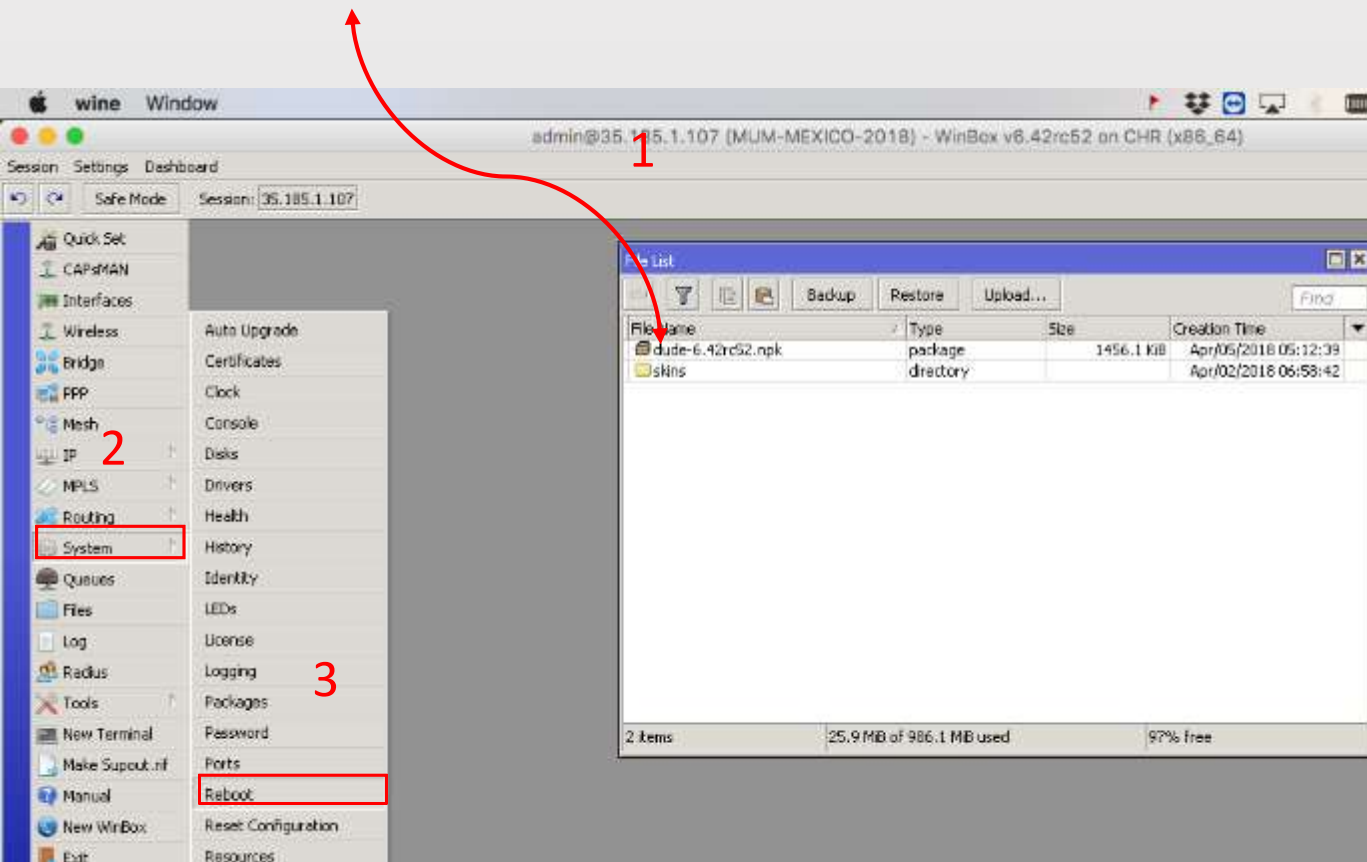
Downloads Changelogs Download archive RouterOS The Dude

Cloud Hosted Router

| | 6.40.7 (Bugfix only) | 6.41.3 (Current) | 5.26 (Legacy) | 6.42rc52 (Release candidate) |
|------------------------|-------------------------------------|-------------------------------------|---------------|-------------------------------------|
| Images | vmdk, vhdx, vdi, ova, img | | | |
| VHDX image | | | - | |
| VMDK image | | | - | |
| VDI image | | | - | |
| OVA template | - | | - | - |
| Raw disk image | | | - | |
| Extra packages | | | - | |
| <u>The Dude server</u> | | | - | |
| The Dude client | | | - | |
| Changelog | | | - | |
| Checksum | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | - | <input checked="" type="checkbox"/> |

En CHR The Dude viene preinstalado

Instalacion The Dude



Inicio en The Dude

The image shows two windows side-by-side. The left window is RouterOS WinBox, and the right window is The Dude.

RouterOS WinBox:

- Session: 35.185.1.107
- Safe Mode
- User List table:

| Name | Group | Allowed Address | Last Logged In |
|-------------------------|-------|-----------------|----------------|
| ;;: system default user | | | |
| admin | full | | Apr/0 |
| dude | full | | Apr/0 |
- Group <full> dialog:
 - Name: full
 - Policies:
 - local, telnet, ssh, ftp, reboot, read, write, policy, test, winbox, password, web, sniff, sensitive, api, romon, **dude**, tikapp
 - Skin: default

The Dude:

- not connected - The Dude 6.42rc52
- Server: 35.185.1.107
- Mode: plain secure
- Port: 8291
- User Name: dude
- Password: *****
- Remember Password
- Comment: MUM-MX-2018
- Table:

| Address | User Name | Comment |
|--------------|-----------|---------|
| 35.185.1.107 | dude | MUM-MX |

Primer inicio de sesion en The Dude

- ❖ Despues de conectar por primera vez, aparecera un asistente para descubrir tu red de manera automatica.
- ❖ Este puede ser cancelado para agregar de forma manual tus dispositivos si asi lo desesas.

miguel@10.10.14.4 - The Dude 6.41.3

FIREWALL AND BANDWIDTH CONTROL -> WWW

Layer: links Zoom: 100%

- El uso de address list se usa para omitir direcciones ip que no seran escaneadas.
- El address list debe configurarse directamente en el router

Device Discovery

General Services Device Types Advanced

Enter subnet number you want to scan for devices

Scan Networks: 10.10.10.0/29

Agent: default

Add Networks To Auto Scan

Black List: DUDE-LIST

Device Name Preference: DNS, SNMP, NETBIOS, IP

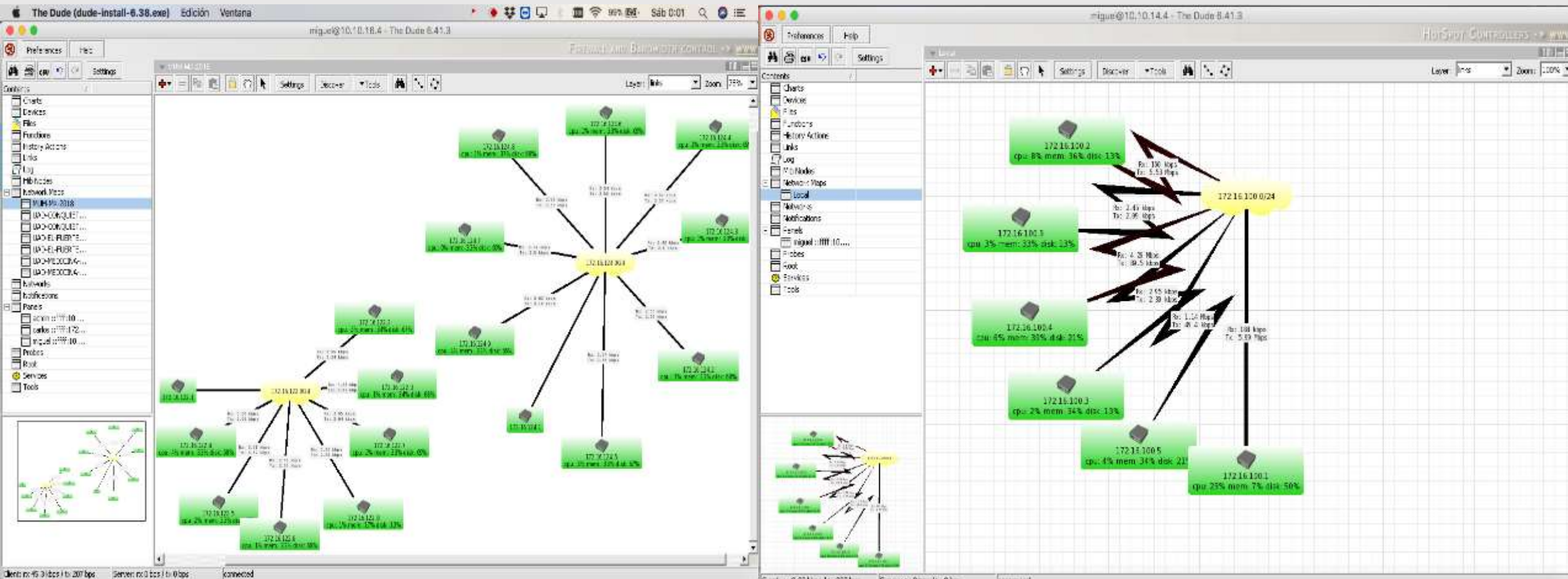
Discovery Mode: fast (scan by ping) reliable (scan each service)

Recursive Hops: 0

Layout Map After Discovery Complete

Discover Cancel

Apariencia estandar despues de Discovery en The Dude



Paneles en The Dude

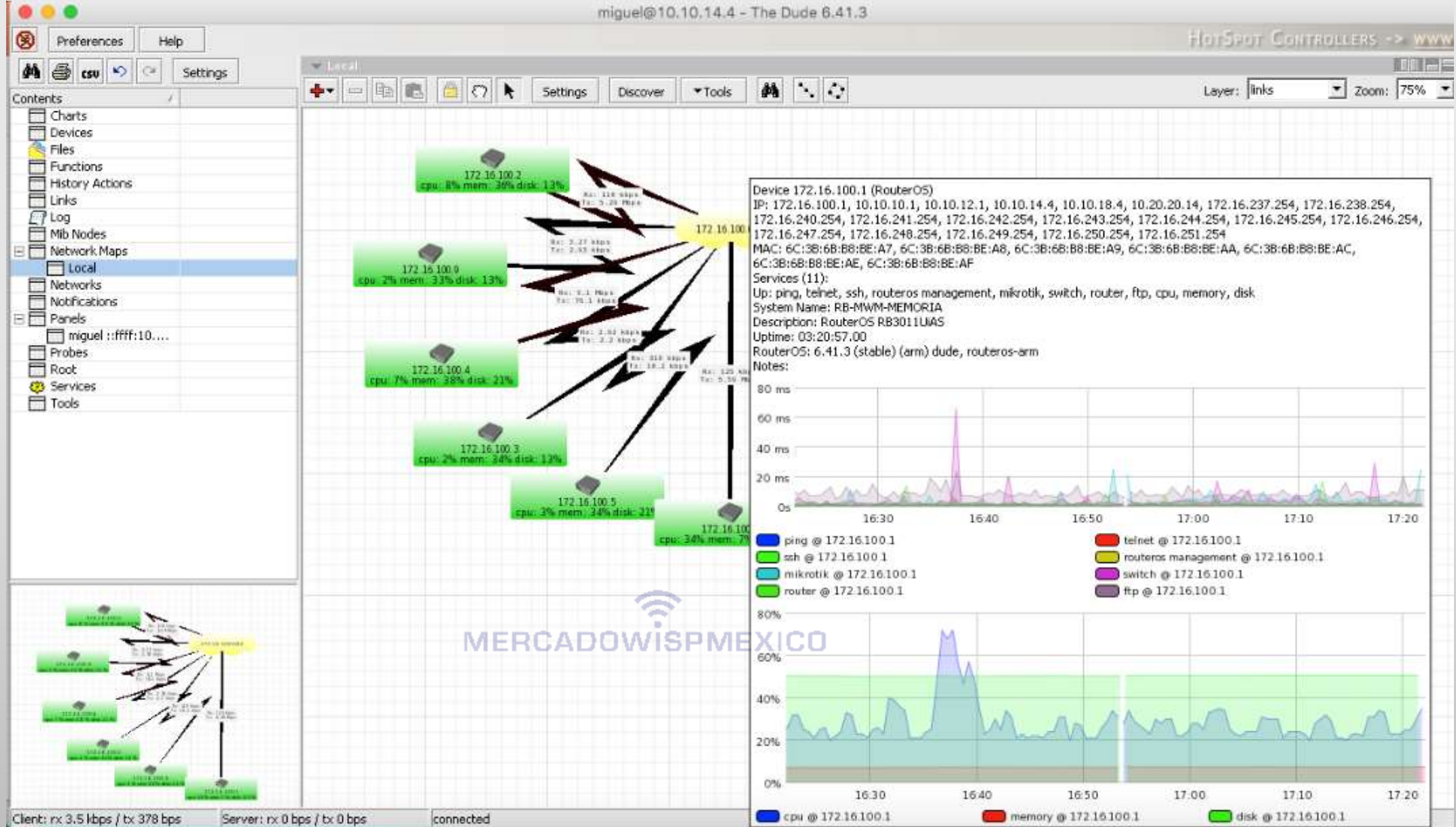
The screenshot displays the 'The Dude' network monitoring application. The window title is 'miguel@10.10.14.4 - The Dude 6.41.3'. The interface is divided into several sections:

- Panel de menu:** A green sidebar on the left containing a 'Contents' list with categories like Charts, Devices, Files, Functions, History Actions, Links, Log, Mib Nodes, Network Maps, Local, Networks, Notifications, Panels, Probes, Root, Services, and Tools. A red label 'Panel de menu' is overlaid on this section.
- Panel Principal:** The main workspace showing a network diagram on a red grid. A central yellow node (172.16.100.24) is connected to several peripheral green nodes. Each node displays its IP address and resource usage (cpu, mem, disk). A red label 'Panel Principal' is overlaid on this section.
- Bottom Status Bar:** Shows network statistics: 'Client: rx 4.59 kbps / tx 206 bps', 'Server: rx 0 bps / tx 0 bps', and 'connected'.

Network Diagram Data:

| IP Address | CPU | Mem | Disk |
|---------------|-----|-----|------|
| 172.16.100.2 | 8% | 36% | 13% |
| 172.16.100.9 | 2% | 34% | 13% |
| 172.16.100.4 | 7% | 39% | 21% |
| 172.16.100.3 | 2% | 34% | 13% |
| 172.16.100.5 | 3% | 34% | 21% |
| 172.16.100.1 | 18% | 7% | 50% |
| 172.16.100.24 | - | - | - |

Grafica de servicios de un dispositivo en The Dude



Configuración de Usuario y contraseña de manera simultánea desde el menú Devices en The Dude

The screenshot shows the 'Devices' window in The Dude. A table lists several devices with IP addresses starting with 172.16.100.1. The status for these devices is 'invalid user name or password (6), next attempt at Apr/09 21:03:41'. A context menu is open over the first device, with 'Settings' selected. Below the table, the 'Settings' dialog box is open, showing the 'Polling' tab. The 'User Name' field is set to 'miguel' and the 'Password' field is masked with asterisks. The 'Status' is 'up' and 'RouterOS Status' is empty. A vertical red arrow points from the title to the 'Settings' menu item, and a horizontal red arrow points from the 'Settings' menu item to the 'Settings' dialog box.

| Name | Status | Version | Architecture | Board | Upgrade Status | Packages |
|--------------|--|---------|--------------|-------|----------------|----------|
| 172.16.100.1 | invalid user name or password (6), next attempt at Apr/09 21:03:41 | | | | | |
| 172.16.100.2 | invalid user name or password (6), next attempt at Apr/09 21:03:24 | | | | | |
| 172.16.100.3 | invalid user name or password (6), next attempt at Apr/09 21:03:12 | | | | | |
| 172.16.100.4 | invalid user name or password (6), next attempt at Apr/09 21:04:08 | | | | | |
| 172.16.100.5 | invalid user name or password (6), next attempt at Apr/09 21:03:52 | | | | | |
| 172.16.100.6 | invalid user name or password (6), next attempt at Apr/09 21:03:17 | | | | | |

General | Polling

Name:

Addresses:

DNS Names:

DNS Lookup: none address to name name to address

DNS Lookup Interval: min

MAC Addresses:

MAC Lookup: none ip to mac mac to ip

Type:

Parents:

Custom Field 1:

Custom Field 2:

Custom Field 3:

Agent:

Snmp Profile:

User Name:

Password:

Secure Mode

Router OS

Dude Server

Services:

Status:

RouterOS Status:

Ok

Cancel

Apply

Remove

Tools

Reprobe

Ack

Unack

Reboot

Reconnect

Configuración de Usuario y contraseña de manera simultánea desde el menu Devices en The Dude

Devices

List Tree RouterOS Types Mac Mappings

Device Group Wireless Registration Simple Queue

Map: all

| Name | Status | Version | Architecture | Board | Upgrade Status | Packages |
|--------------|--------|--------------|--------------|-------------------|----------------|--------------------|
| 172.16.100.1 | ok | 6.41.3 (...) | arm | RB3011UIA5 | | dude, routeros-arm |
| 172.16.100.2 | ok | 6.41.2 (...) | mipsbe | RB912UAG-SHPnD | | routeros-mipsbe |
| 172.16.100.3 | ok | 6.7 | mipsbe | RB SXT G-5HPnD r2 | | routeros-mipsbe |
| 172.16.100.4 | ok | 6.41.3 (...) | mipsbe | RB SXT 5nD r2 | | routeros-mipsbe |
| 172.16.100.5 | ok | 6.41.3 (...) | mipsbe | RB SXT 5nD r2 | | routeros-mipsbe |
| 172.16.100.9 | ok | 6.19 | mipsbe | RB SXT 5nD r2 | | routeros-mipsbe |

172.16.100.1, 172.16.100.2, 172.16.100.3, 172.16.100.4, 172.16.100.5, 172.16.100.9 - 6 Devices

General Polling

Name:

Addresses:

DNS Names:

DNS Lookup: none address to name name to address

DNS Lookup Interval: 60 min

MAC Addresses:

MAC Lookup: none first mac first ip first mac to ip first ip to mac

Type: RouterOS

Parents:

Custom Field 1:

Custom Field 2:

Custom Field 3:

Agent: default

Snmp Profile: default

User Name: miguel

Password: *****

Secure Mode

Router OS

Services:

Status: up

RouterOS Status: ok

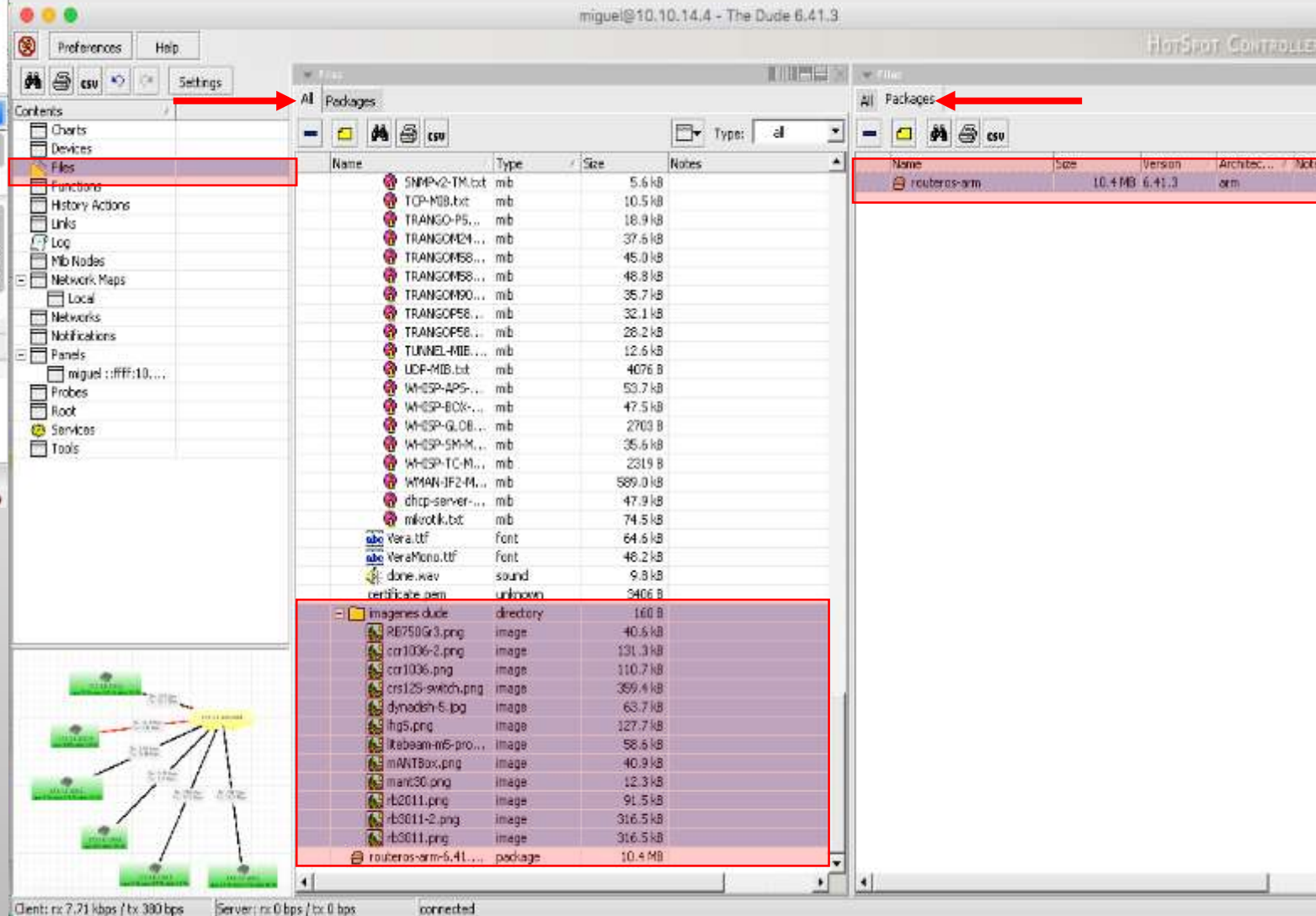
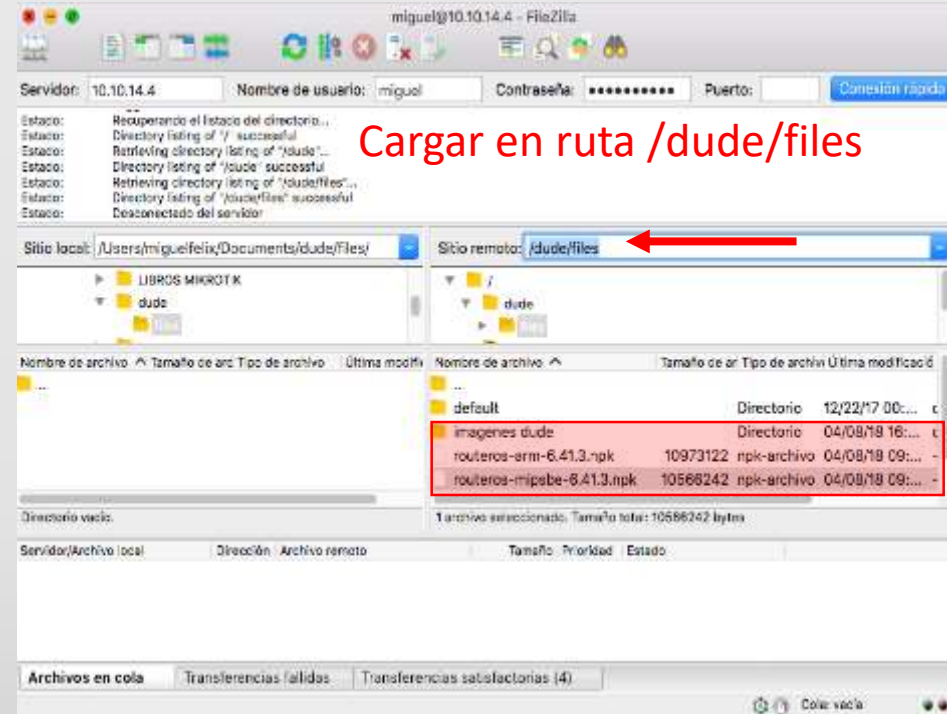
Ok Cancel Apply Remove Tools Reprobe Ack Unack Reboot Reconnect

❖ Configuración correcta de usuario y contraseña

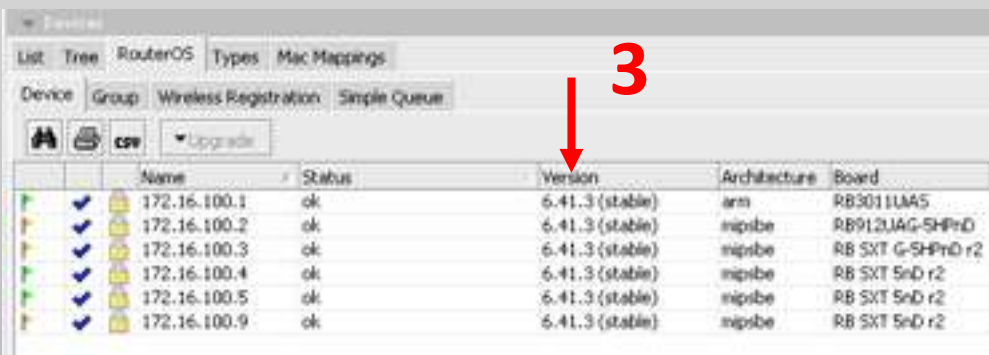
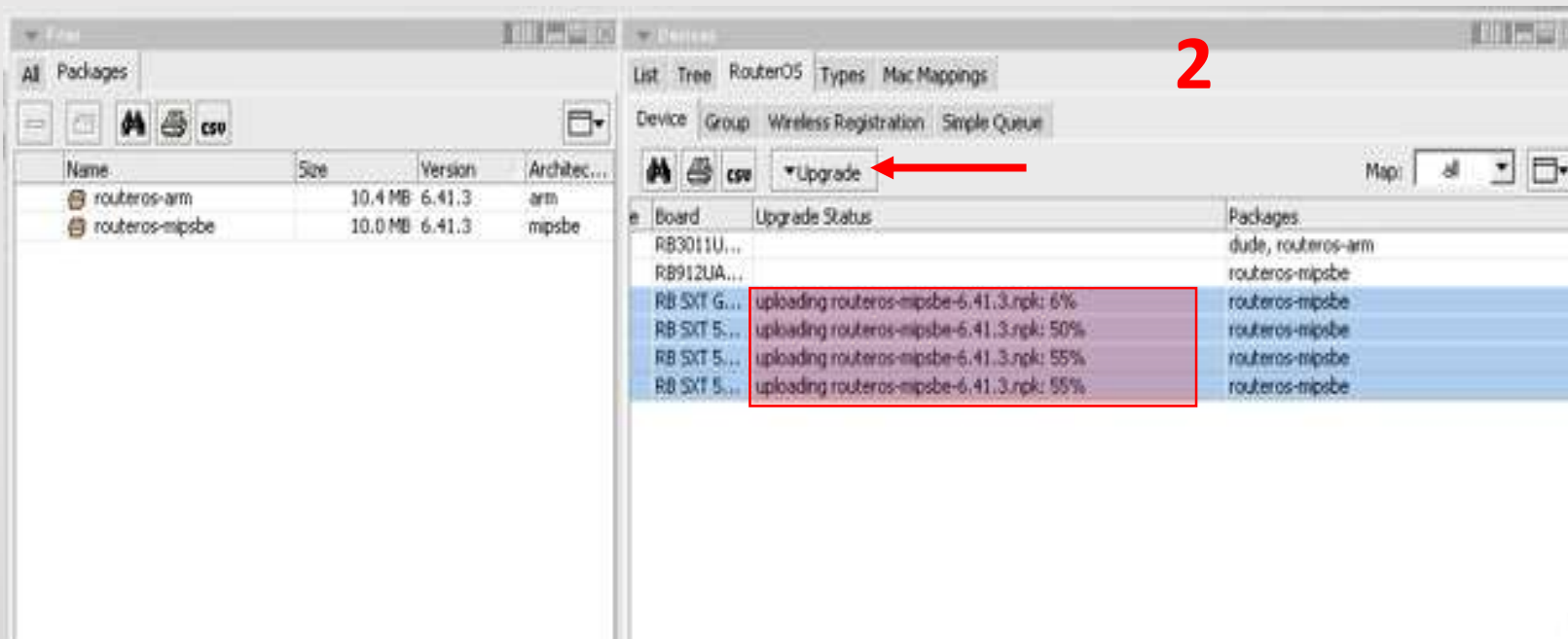
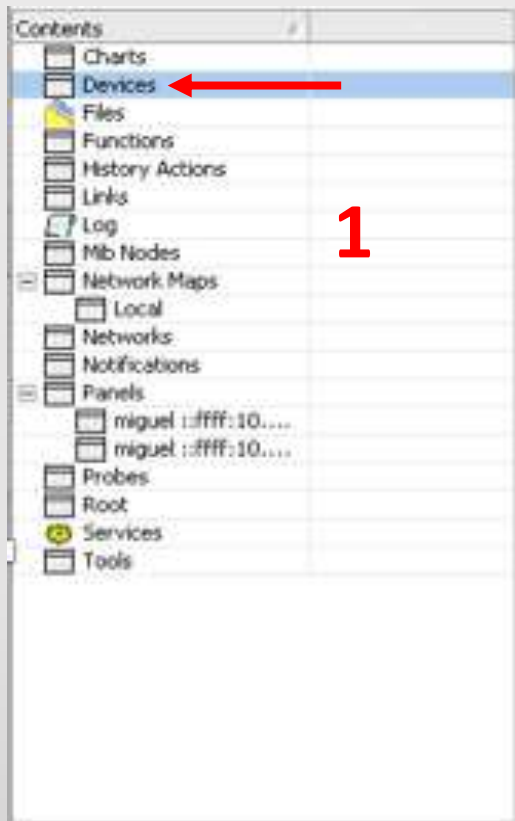
Carga de Archivos por Ftp al servidor The Dude

❖ Conexión con cliente FTP al servidor

❖ Archivos cargados en el menu Files



Actualizacion Simultanea de equipos Mikrotik en The Dude.

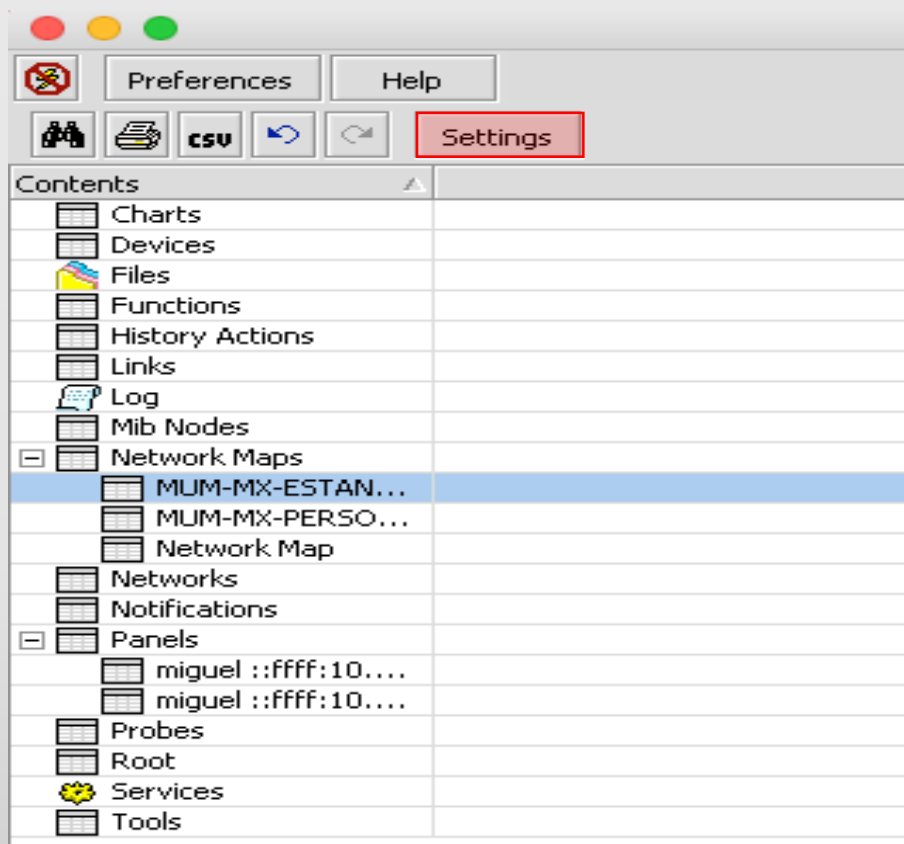


Funcionamiento de The Dude

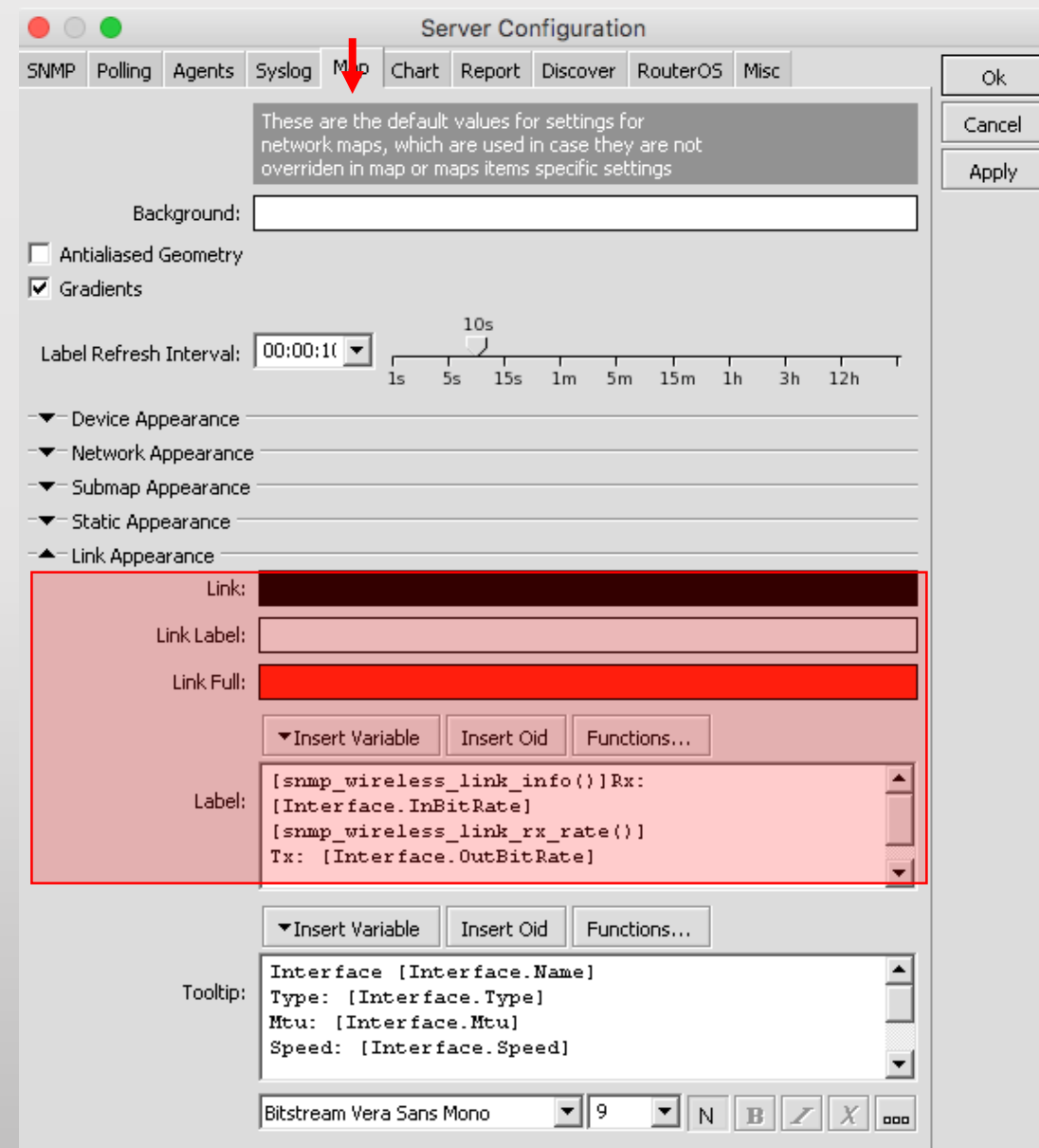
- ❖ The Dude maneja 3 niveles donde se puede realizar una configuración que cumpla con el mismo objetivo, pero cada nivel es mas específico que otro.
- ❖ Si se realiza una configuración en un nivel mas bajo o específico, The Dude tomara en cuenta su configuración por sobre la configuración de otro nivel superior en caso de existir.

Veamos un ejemplo...

Configuración de etiqueta de enlace desde el servidor

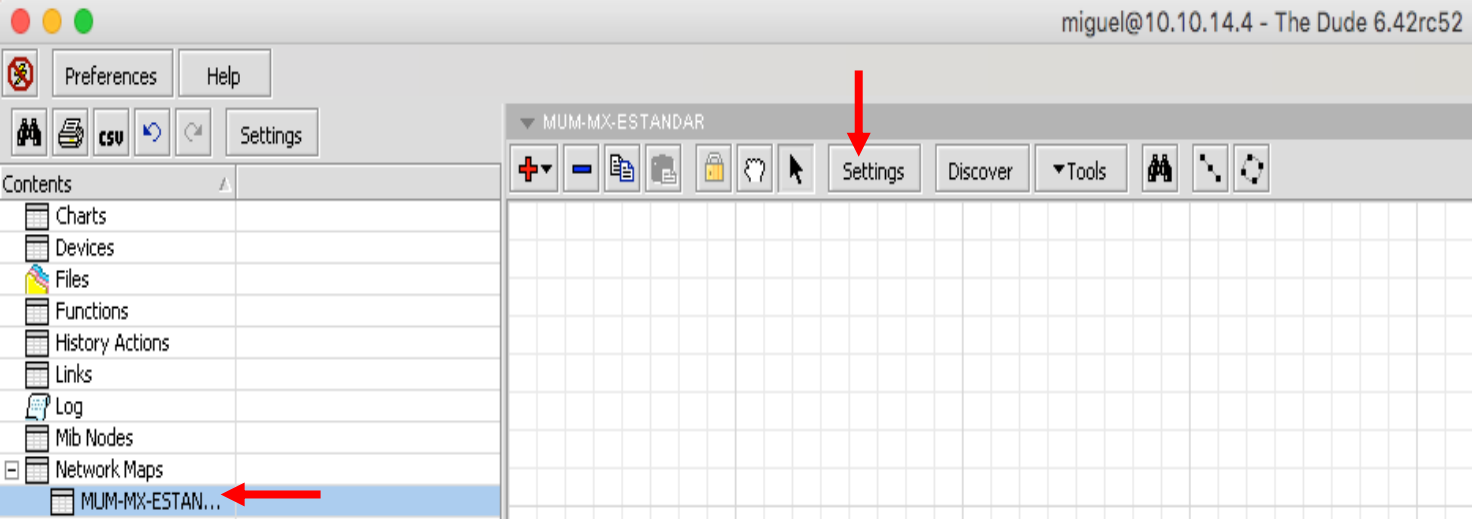


Nivel Alto

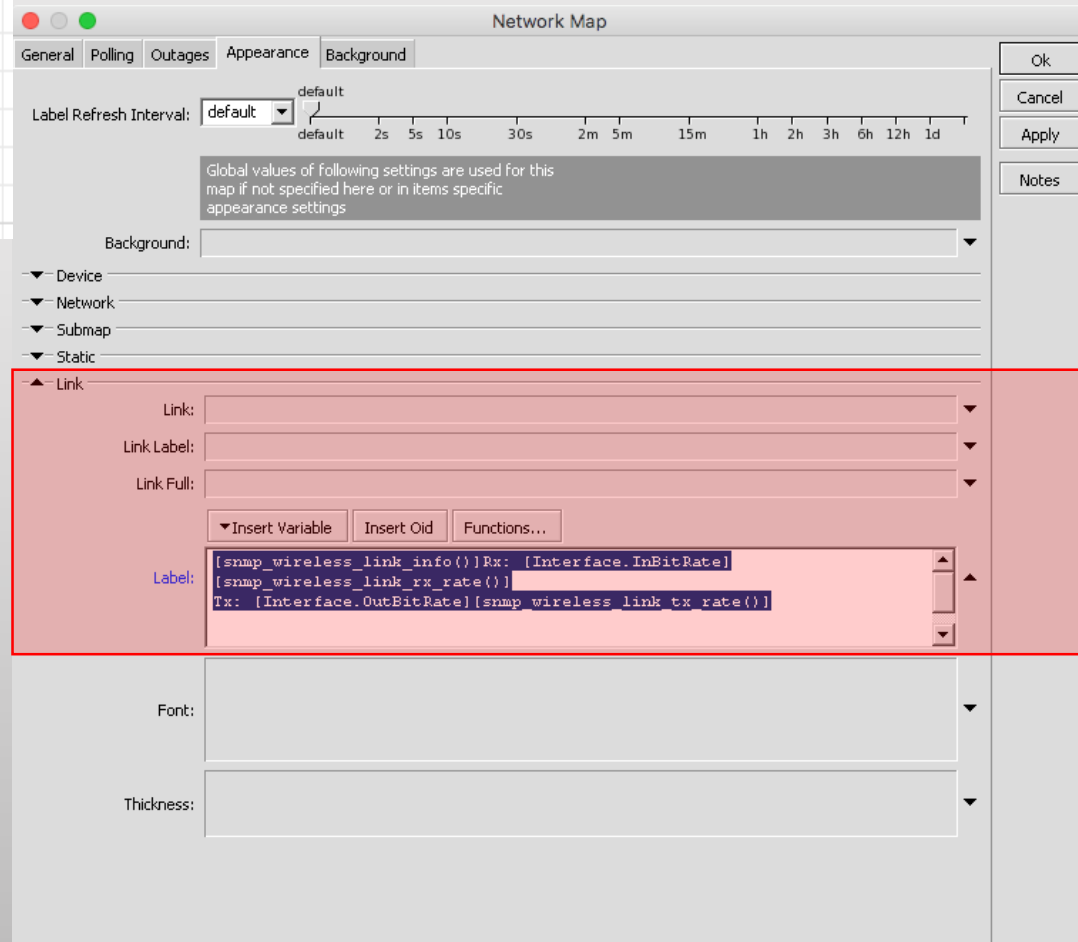


Esta opción aplicará para todas las etiquetas de enlaces en The Dude, siempre y cuando no exista alguna configuración en un nivel inferior

Configuración de etiqueta de enlace desde el Mapa de Red

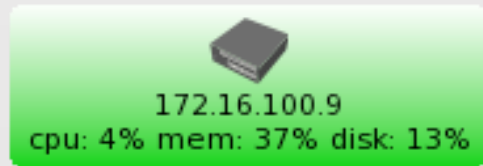


Nivel Medio

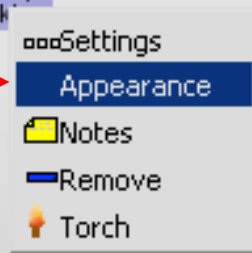


Esta opción se aplicara para todas las etiquetas de enlaces del mapa en el que se configure, y no tomara en cuenta la configuracion del nivel alto.

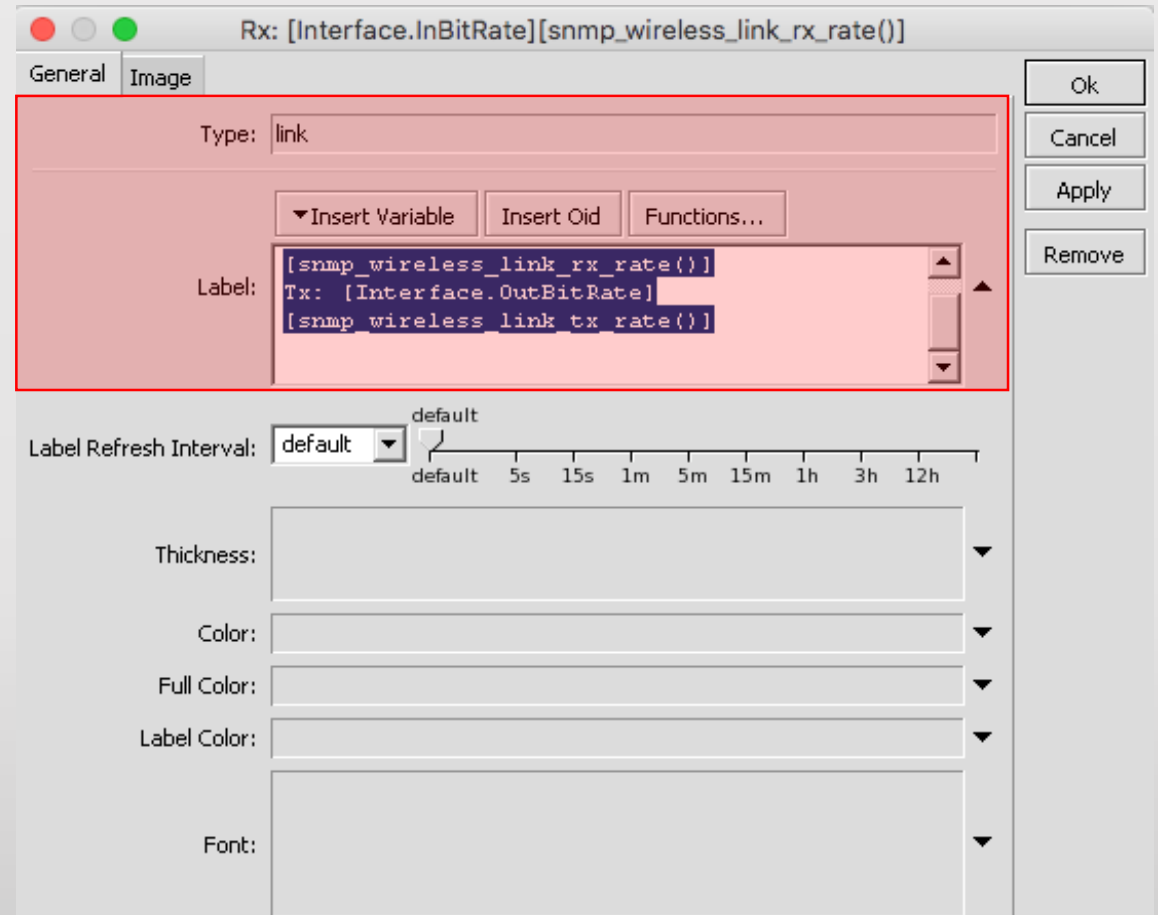
Configuracion de etiqueta desde el propio enlace



Rx: 17.2 kbps
Tx: 23.4 kbps



Nivel Bajo



Esta configuracion solo funcionara para su propio enlace y no tomara en cuenta al resto de los niveles



- ✓ **Que es The Dude? Como funciona The Dude?**
- ✓ **Como instalo The Dude?**
- ✓ **Configuracion basica en The Dude**
- Configuraciones personalizadas en The Dude**
- Demostración**
- Recomendaciones**

❖ Se recomienda crear un perfil SNMP por en el servidor, el cual tambien debera estar configurado en los dispositivos antes de realizar el en escaneo de tu red

The screenshot shows the Mikrotik WinBox interface with several windows open. A red box labeled '1' highlights the 'Preferences' menu in the top-left corner. Another red box labeled '2' highlights the 'Settings' button in the top toolbar. A third red box labeled '1' highlights the 'Preferences' dialog box, which has checkboxes for 'Auto Connect At Startup', 'Auto Reconnect If Connection Lost', 'Auto Update To Server Version', 'Appear Only On Tray When Minimized', 'Hide Tray Icon', and 'Status Bar'. A fourth red box labeled '2' highlights the 'Server Configuration' dialog box. In this dialog, the 'SNMP' tab is active, and the 'Default' dropdown is set to 'MERCADOWISPMEXICOV2'. A table below shows the configuration for this profile:

| Name | Vers... | Community | Port | Notes |
|---------------------|---------|----------------|------|-------|
| v1-public | 1 | public | 161 | |
| MERCADOWISPMEXICOV2 | 2c | MERCADOWISP... | 161 | |
| v2-public | 2c | public | 161 | |
| no-snmp | none | | | |

Below the table, the 'Profiles:' section is visible. At the bottom of the 'Server Configuration' dialog, there are fields for 'Tries' (set to 3) and 'Try Timeout' (set to 3000 ms).

Habilitar SNMP v2 en Dispositivo(s) Mikrotik:

The screenshot shows the Mikrotik WinBox interface. The 'SNMP Settings' window is open, showing the following configuration:

- Enabled:
- Contact Info: soporte@mercadowispmexico.com
- Location: mwm
- Engine ID: (empty)
- Trap Target: (empty)
- Trap Community: MERCADOWISPMEXICO
- Trap Version: 2
- Trap Generators: (empty)
- Trap Interfaces: (empty)
- Src. Address: ::

The 'SNMP Communities' window shows the following table:

| Name | Addresses | Security | Read Ac... | Write Ac... |
|-------------------|--------------|----------|------------|-------------|
| MERCADOWISPMEXICO | 172.16.100.1 | none | yes | no |
| no-public | 0.0.0.0/0 | none | no | no |

The Terminal window shows the following commands and output:

```
[?] Gives the list of available commands
command [?] Gives help on the command and list of arguments
[Tab] Completes the command/word. If the input is ambiguous,
a second [Tab] gives possible options
/ Move up to base level
.. Move up one level
/command Use command at the base level
[miqel@MWM-SECTOR-INDUSTRIAL] > /snmp export
# apr/08/2018 19:23:00 by RouterOS 6.41.3
# software id = F7CF-2175
#
# model = 912UAG-SHPnD
# serial number = 4C6E027EA5C7
/snmp community
set [ find default=yes ] addresses=0.0.0.0/0 name=no-public read-access=no
add addresses=172.16.100.1/32 authentication-protocol=SHA1 encryption-protocol=AES name=MERCADOWISPMEXICO
/snmp
set contact=soporte@mercadowispmexico.com enabled=yes location=mwm \
trap-community=MERCADOWISPMEXICO trap-version=2
[miqel@MWM-SECTOR-INDUSTRIAL] >
```

/snmp community

set [find default=yes] addresses=0.0.0.0/0 name=no-public read-access=no

add addresses=172.16.100.1/32 authentication-protocol=SHA1 encryption-protocol=AES name=MERCADOWISPMEXICO

/snmp

set contact=soporte@mercadowispmexico.com enabled=yes location=mwm trap-community=MERCADOWISPMEXICO trap-version=2

Snmp Walk en The Dude

- ❖ Uso de la herramienta Snmp walk para obtener parametros especificos de un dispositivo
- ❖ Snmp Walk obtiene parametros atravez de idendificadores de objetos "oid"

The screenshot shows the The Dude interface with a network map. A context menu is open over a device node (172.16.100.9), with the 'Tools' menu item selected. The 'Snmpwalk' option is highlighted. A dialog box titled 'Snmp Walk 172.16.100.9' is open, showing the configuration for the walk. The 'From' field is set to 'default', 'To' is '172.16.100.9', 'Profile' is 'MERCADOWISPMEIXICOV2', 'Type' is 'all', and 'Tries' is '3'. The 'List' tab is active, displaying a table of OID and Value pairs. The value 'MikroTik RouterOS 6.41.3 (stable) SXT Lite5' is highlighted. The 'Sys' button at the bottom of the dialog is also highlighted.

| OID | Type | Value |
|--|--------------|---|
| so6802.1eee802dot1.1eee802dot1mbs.lldpMIB.l... | octet string | CRISTIAN GARCIA CAMACHO |
| so6802.1eee802dot1.1eee802dot1mbs.lldpMIB.l... | octet string | MikroTik RouterOS 6.41.3 (stable) SXT Lite5 |
| so6802.1eee802dot1.1eee802dot1mbs.lldpMIB.l... | integer | 28 |
| so6802.1eee802dot1.1eee802dot1mbs.lldpMIB.l... | integer | 24 |
| so6802.1eee802dot1.1eee802dot1mbs.lldpMIB.l... | integer | 1 |
| so6802.1eee802dot1.1eee802dot1mbs.lldpMIB.l... | integer | 2 |
| so6802.1eee802dot1.1eee802dot1mbs.lldpMIB.l... | integer | macAddress (3) |
| so6802.1eee802dot1.1eee802dot1mbs.lldpMIB.l... | integer | macAddress (3) |
| so6802.1eee802dot1.1eee802dot1mbs.lldpMIB.l... | octet string | 4C:5E:0C:54:71:30 |
| so6802.1eee802dot1.1eee802dot1mbs.lldpMIB.l... | octet string | 4C:5E:0C:54:71:31 |
| so6802.1eee802dot1.1eee802dot1mbs.lldpMIB.l... | octet string | ether1-LAN |

Menu “Probes” en The Dude

❖ Configuración de probe con herramienta Snmp Walk

The screenshot illustrates the configuration of a probe in The Dude. The main interface shows a network map with a router node at 172.16.100.9. The 'Probes' menu is highlighted in the left sidebar. A 'New Probe' dialog box is open, with the following configuration:

- Name: SXTLITES_Device
- Type: SNMP
- Agent: default
- Snmp Profile: MERCADOWISPMEXICOV2
- Treat service as available only if up
- Oid: iso.std.iso8802.1.ieee802dot1.ieee802dot1mibs
- Oid Type: octet string
- Compare Method: match regexp
- String Value: MikroTik RouterOS 6.41.3 (stable) SXT Lite5

A 'Snmp Walk' dialog box is also open, showing the results of a walk on 172.16.100.9. The results are displayed in a table:

| Module | Type | Value |
|-------------------------------------|--------------|-----------------------------------|
| / | octet string | CRISTIAN GARCIA CAMACHO |
| / | octet string | MikroTik RouterOS 6.41.3 (stable) |
| iso.org.dod.internet.mgmt.mib-2.isr | integer | 28 |
| iso.org.dod.internet.mgmt.mib-2.isr | integer | 24 |
| iso.org.dod.internet.mgmt.mib-2.isr | integer | 1 |
| iso.org.dod.internet.mgmt.mib-2.isr | integer | 2 |
| iso.org.dod.internet.mgmt.mib-2.isr | integer | macAddress (3) |
| iso.org.dod.internet.mgmt.mib-2.isr | integer | macAddress (3) |
| iso.org.dod.internet.mgmt.mib-2.isr | octet string | 4C:5E:0C:54:71:30 |
| iso.org.dod.internet.mgmt.mib-2.isr | octet string | 4C:5E:0C:54:71:31 |
| iso.org.dod.internet.mgmt.mib-2.isr | octet string | ether1-LAN |

A context menu is open over the table, with the 'Create Probe' option highlighted. Red arrows indicate the flow of the configuration process: from the main interface to the 'New Probe' dialog, then to the 'Snmp Walk' dialog, and finally to the 'Create Probe' option in the context menu.

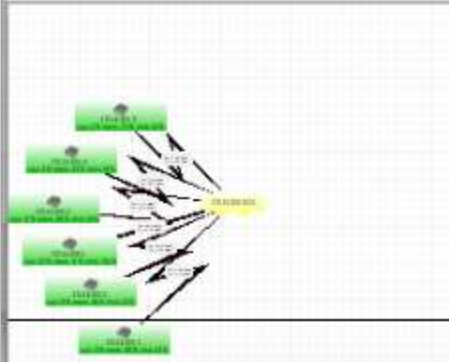
Tipo de Dispositivo (Device Type) en The Dude

The screenshot shows the 'SXTLite5_Device - Device Type' dialog box in The Dude. The 'General' tab is selected, displaying the following fields:

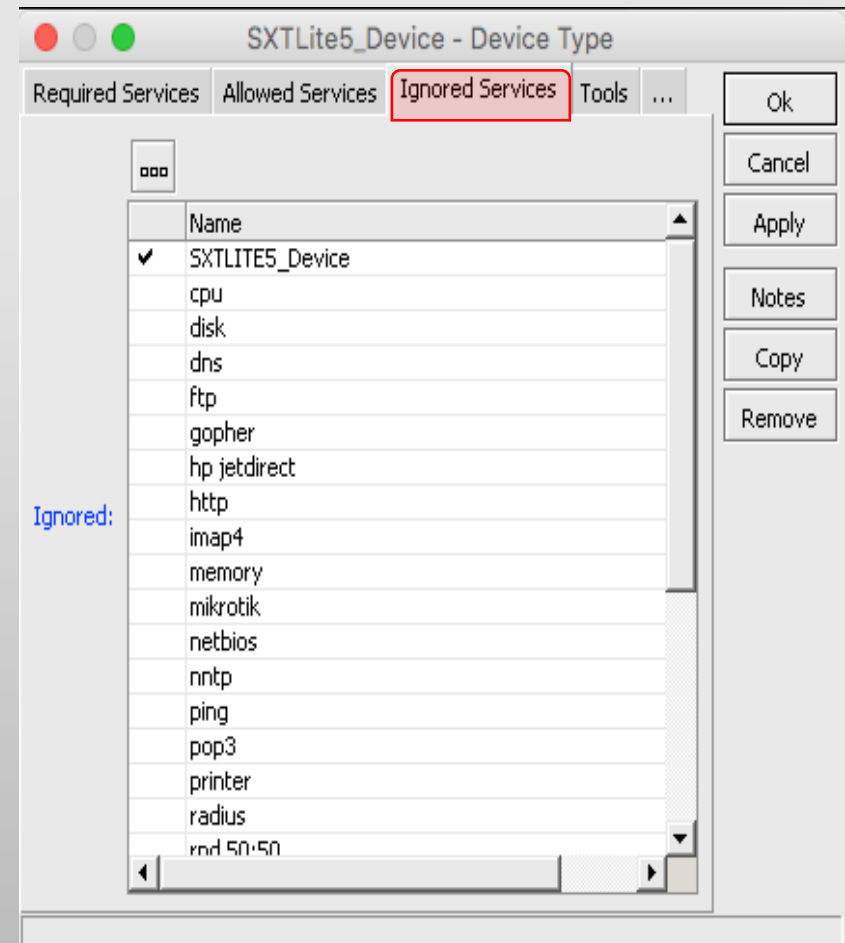
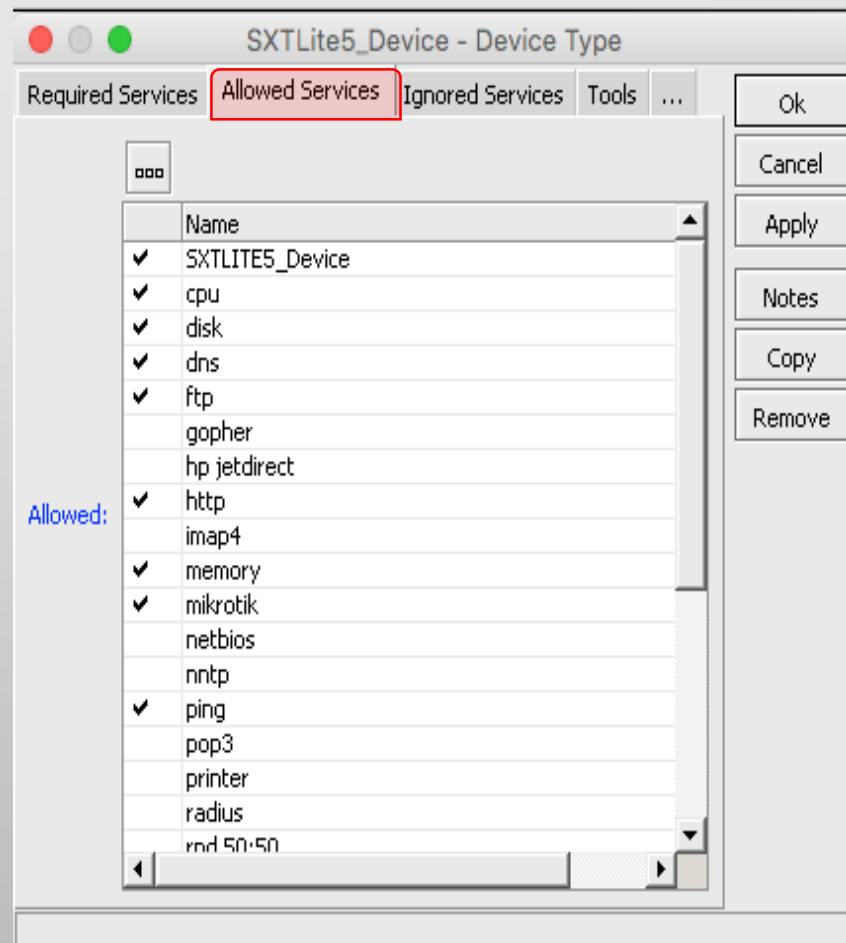
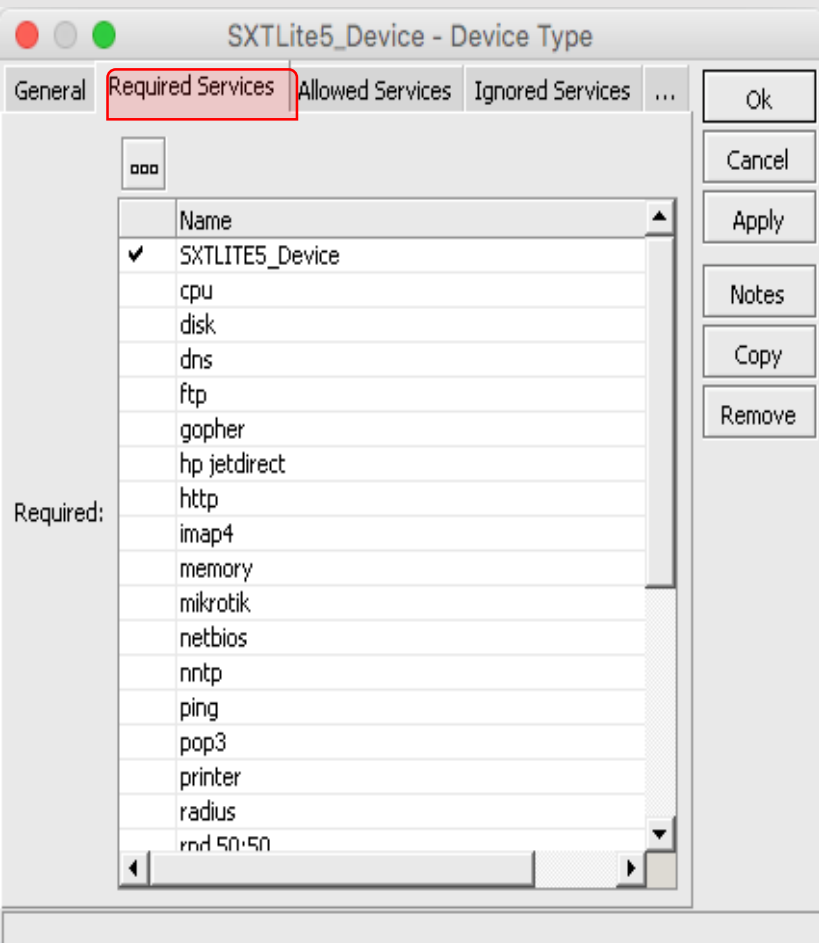
- Name: SXTLite5_Device
- Icon: cpe:sxtlite5.png (with a red arrow pointing to the icon field)
- Scale: 15% (with a slider from 0 to 1K)
- Url: http://[Device.FirstAddress]

In the background, the 'Devices' list is visible, with 'SXTLite5_Device' highlighted at index 18. The 'Types' tab is also visible in the 'Devices' list.

- Las imagenes deben ser cargadas previamente por FTP al servidor



- ❖ **Required Services:** Seleccionar el servicio que debe existir durante el discovery o autoscán.
- ❖ **Allowed Services:** Seleccionar servicios permitidos para el tipo de dispositivo que se esta creando.
- ❖ **Ignored Services:** Seleccionar servicios que solo se toman en cuenta durante el scan y no son agregados a la lista de deteccion pruebas.



Crear mapa de Red en The Dude

miguel@10.10.14.4 - The Dude 6.42rc52

The screenshot shows the The Dude interface with several red arrows indicating the steps to create a network map:

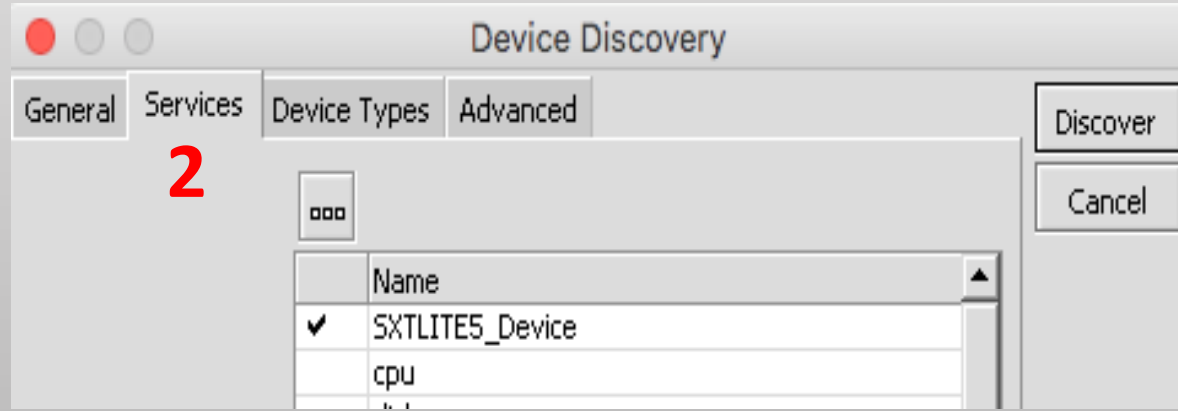
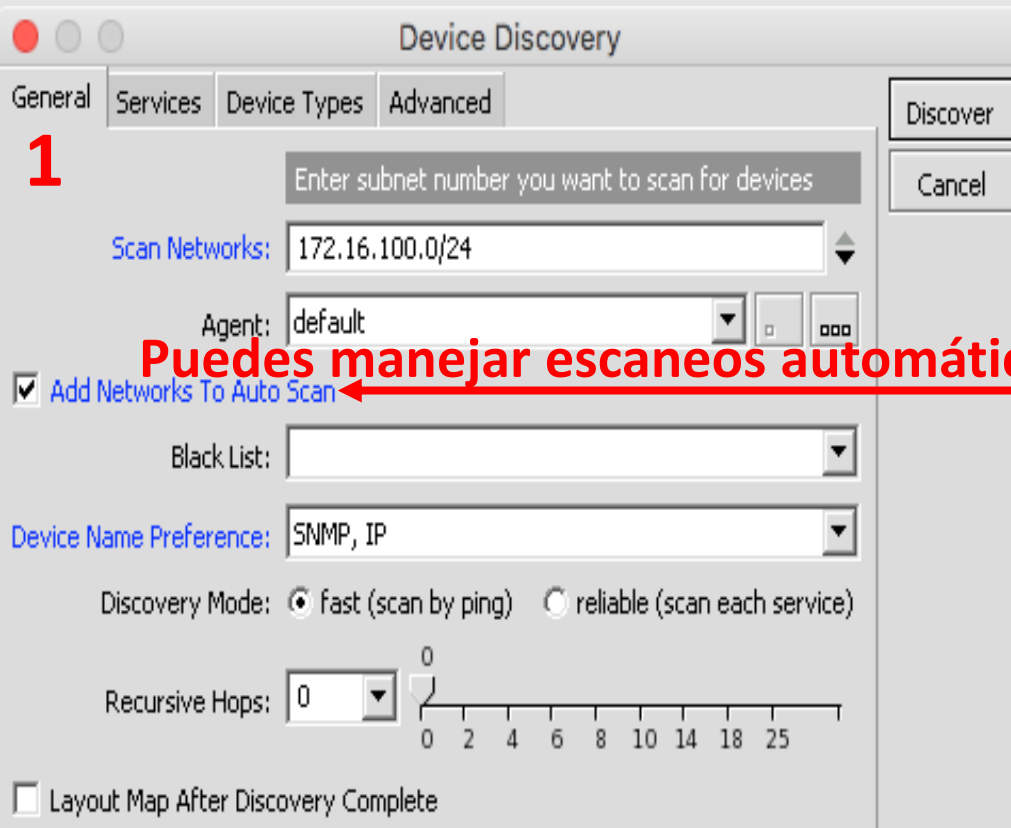
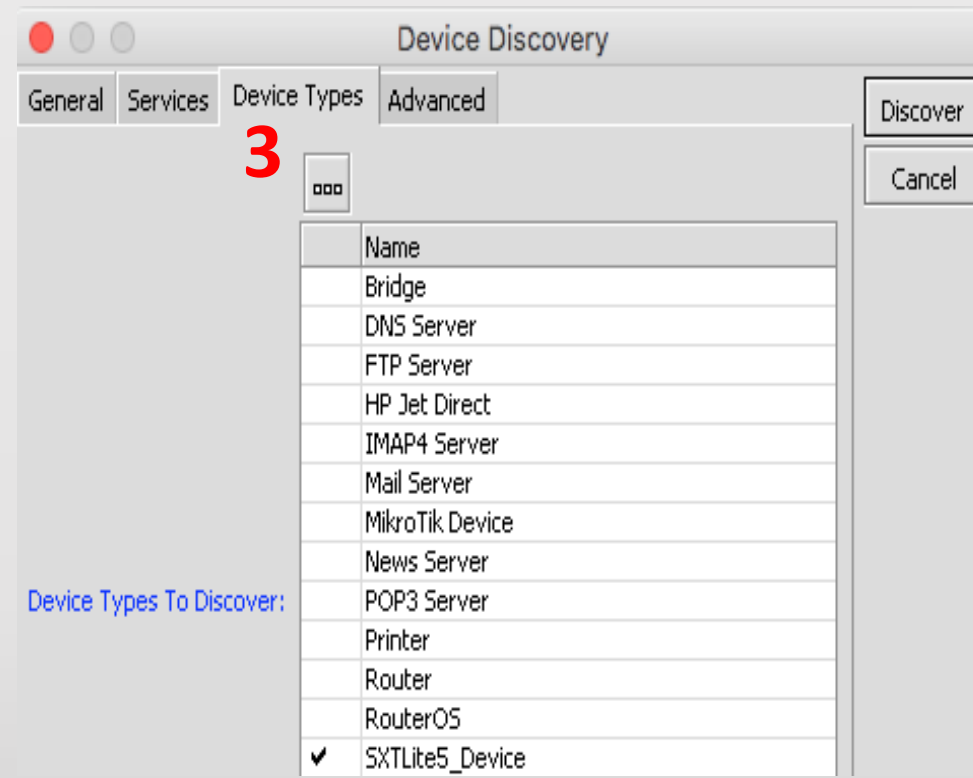
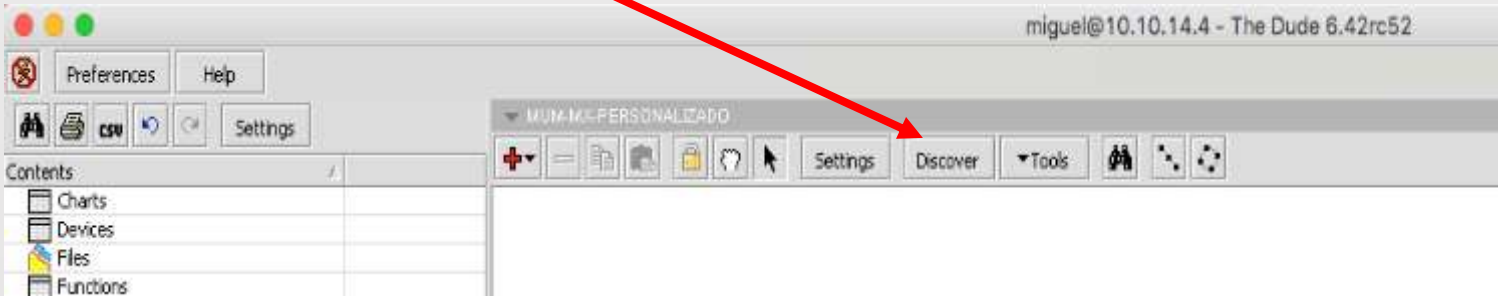
- An arrow points to the '+' icon in the Network Maps toolbar.
- An arrow points to the 'Network Maps' folder in the Contents sidebar.
- An arrow points to the 'Name' field in the 'New Network Map' dialog, which contains 'MUM-MX-PERSONALIZADO'.
- An arrow points to the 'MUM-MX-PERSONALIZADO' entry in the Network Maps table.

| Name | Devices | Down | Notes |
|----------------------|---------|------|-------|
| MUM-MX-ESTANDAR | 6 | | |
| MUM-MX-PERSONALIZADO | 0 | | |

New Network Map dialog details:

- General tab selected
- Name: MUM-MX-PERSONALIZADO
- Default Zoom: 100%
- Report Scan Status
- Buttons: Ok, Cancel, Apply, Notes

Discovery con dispositivo específico en The Dude



Escaneos automaticos en The Dude

Contents

- Charts
- Devices
- Files
- Functions
- History Actions
- Links
- Log
- Mib Nodes
- Network Maps
 - MUM-MX-ESTANDAR
 - MUM-MX-PERSONALIZADO
 - Network Map

MUM-MX-PERSONALIZADO

Settings Discover Tools

Layer: links Zoom:

172.16.100.9
cpu: 2% mem: 33% disk: 13%

SSID: CWG51
Banda: 5550/20/a/n
Senal: -54
Rx: 3.45 kbps
Tx: 2.62 kbps

MUM-MX-PERSONALIZADO - Network Map

General Polling Outages Appearance Background

Name: MUM-MX-PERSONALIZADO

Default Zoom: 100%

Status: down

Devices:

Report Scan Status

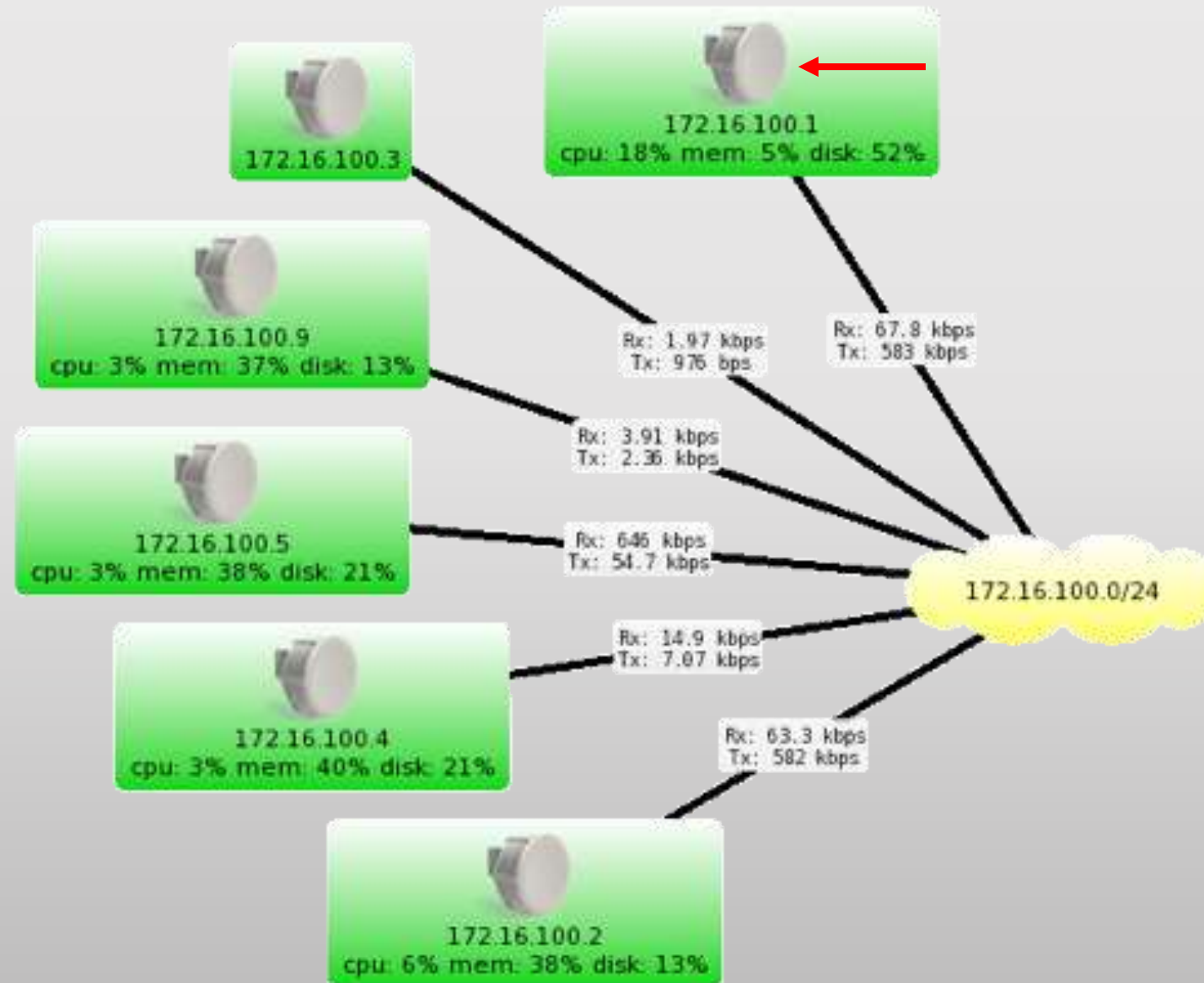
| Network | Progress | Next ... |
|-----------------|----------|----------|
| 172.16.100.0/24 | 100 | 00:55:05 |

Down - 1
Up - 5

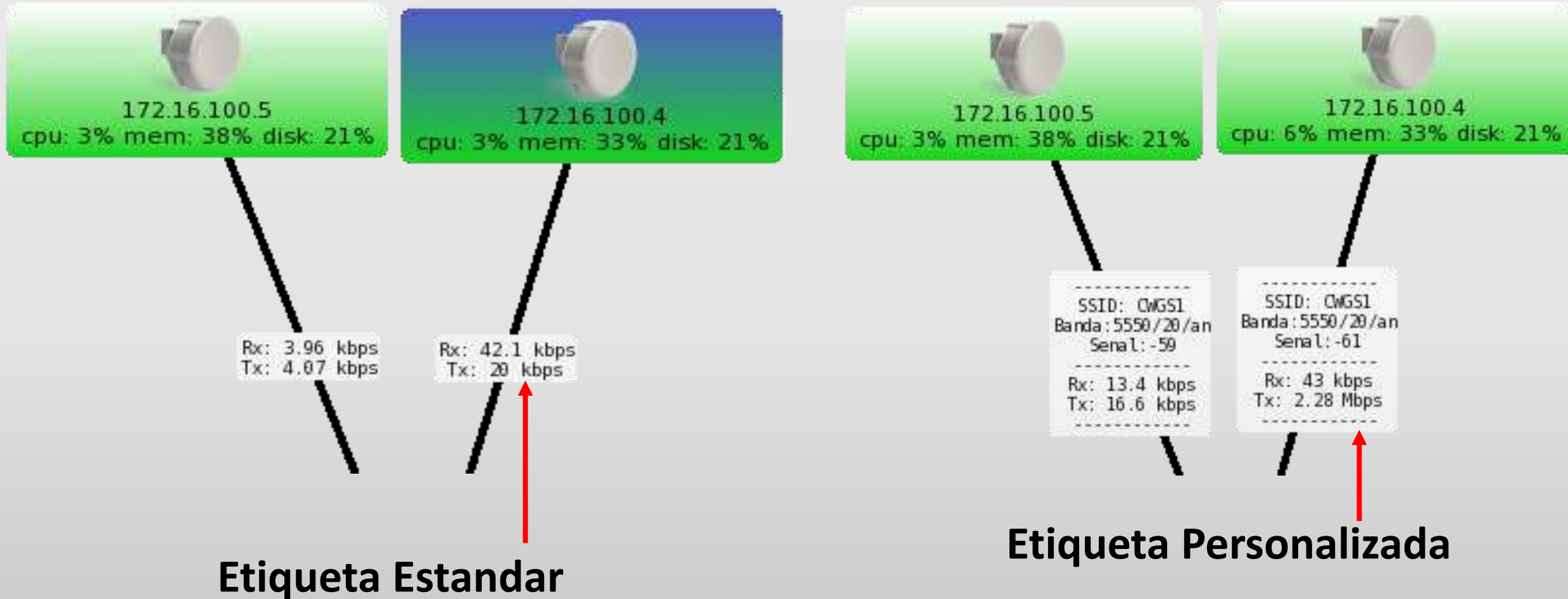
Escaneos automaticos en mapas de red

Dispositivos en The Dude

❖ Apariencia despues del scan con tipo de dispositivo especifico "Device type"



Etiquetas de Enlaces (Link - Label) con The Dude



Etiquetas de Enlaces (Link - Label) con The Dude



SSID: CWG51
Banda: 5550 / 20 / a
Senal: -55

Rx: 4.62 kbps
Tx: 3.4 kbps

- Settings
- Appearance**
- Notes
- Remove
- Torch

MUM-MX-PERSONALIZADO - Network Map

General | Polling | Outages | Appearance | Background

Label Refresh Interval: default

Global values of following settings are used for this map if not specified here or in items specific appearance settings

Background:

Device

Network

Submap

Static

Link

Link:

Link Label:

Link Full:

Insert Variable | Insert Oid | Functions...

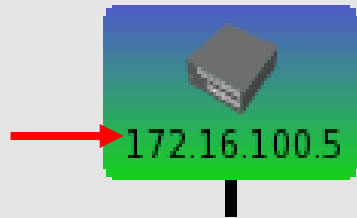
Label:

```
-----  
SSID: [mikrotik_ssid_snmp()  
Banda: [mikrotik_freq_snmp()  
Senal: [mikrotik_signal_snmp()
```

SSID: [mikrotik_ssid_snmp()]
Banda:[mikrotik_freq_snmp()]
Senal:[mikrotik_signal_snmp()]

Rx: [Interface.InBitRate][snmp_wireless_link_rx_rate()]
Tx: [Interface.OutBitRate][snmp_wireless_link_tx_rate()]

Etiquetas de Dispositivos (Device – Label) con The Dude



Etiqueta Estandar sin Snmp



Etiqueta Estandar con Snmp



Etiqueta personalizada con SNMP y ros_command

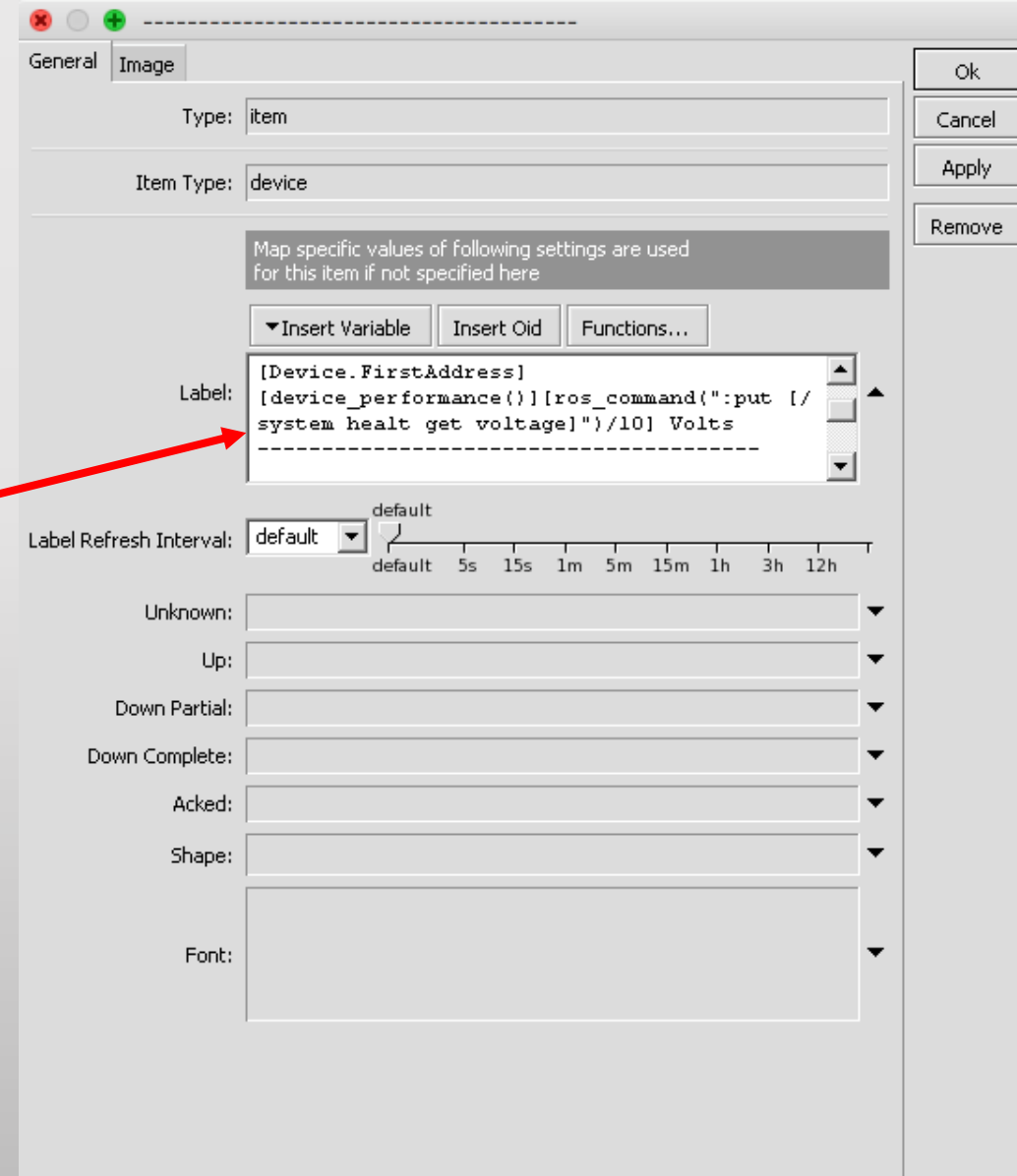
Etiquetas de Dispositivos (Device – Label) con The Dude



- Settings
- Appearance
- Tools
- Reprobe
- Ack
- Unack
- Upgrade
- Force Upgrade
- Notes
- Remove
- Select Adjacent

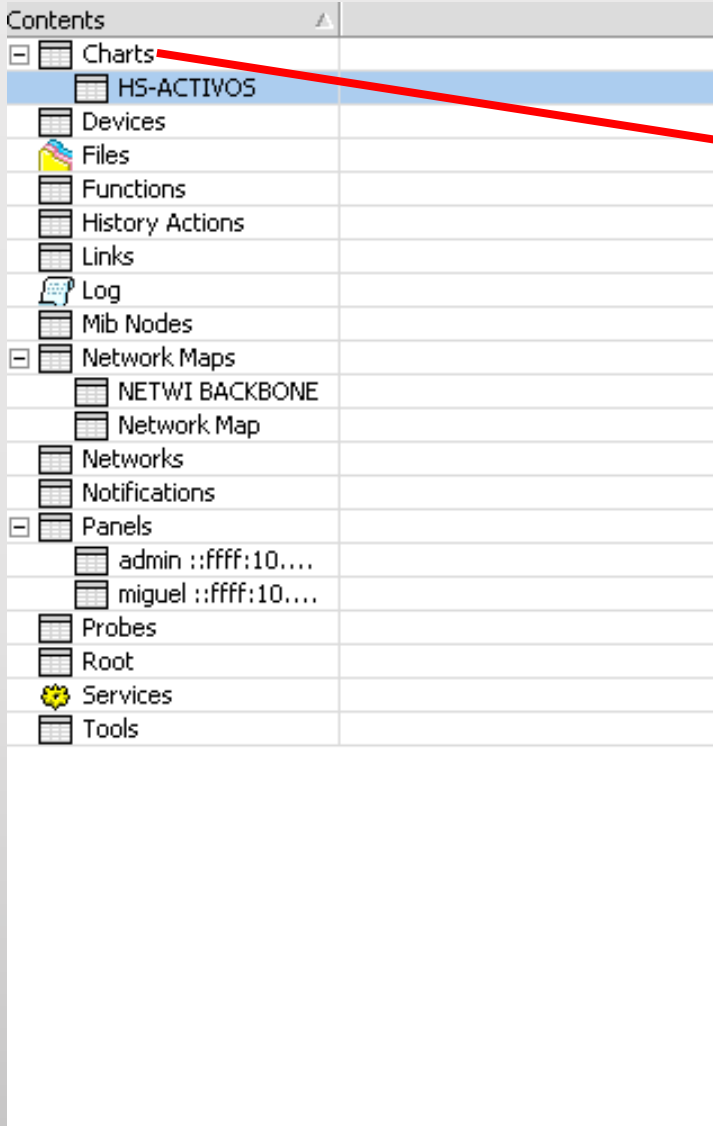
[mikrotik_nombre_ros()]
IP:[Device.FirstAddress]
[device_performance()]
[ros_command(":put [/system healt get voltage])/10] Volts

SSID: [mikrotik_ssid_snmp()]
Banda:[mikrotik_freq_snmp()]
CPE:[mikrotik_wireless_reg_rc()]
Nfloor:[oid("iso.3.6.1.4.1.14988.1.1.1.3.1.9.2")]



Configuración de Graficos en The Dude (Charts)

❖ Configuración del origen de datos (Data Sources)



The screenshot shows the configuration window for the 'active_clients' data source. The window is titled 'active_clients - Data Source' and has two tabs: 'General' and 'Chart'. The 'General' tab is active, and the 'Enabled' checkbox is checked. The configuration fields are as follows:

- Name:** active_clients
- Unit:** (empty)
- Device:** RB-ADMINISTRADOR
- Code:** `oAAASessionMIB.casnMIBObjects.casnActive.casnActiveTable.casnActiveEntry.casnUserId"`
- Interval:** 00:00:30 (30s)
- Last Value Time:** 13:03:34
- Last Value:** 1735
- Raw Value Keep Time:** default
- 10 Min Value Keep Time:** default
- 2 Hour Value Keep Time:** default
- 1 Day Value Keep Time:** default
- Approximate Storage Size:** 42.4 kB

Buttons on the right side include 'Ok', 'Cancel', 'Apply', 'Notes', and 'Remove'. A red box highlights the Name, Unit, Device, and Code fields. A red arrow points from the 'Charts' folder in the sidebar to the 'Data Sources' tab in the configuration window. Another red arrow points from the 'active_clients' entry in the table to the configuration window.

| Name | Type | Last Value |
|--|----------|-------------|
| ether10-MIMOSA-B5C (10) @ RB-HOTSPOT-CE... | builtin | 0 |
| active_clients @ RB-ADMINISTRADOR | builtin | 4 |
| ether10-MIMOSA-B5C (10) @ RB-HOTSPOT-CE... | builtin | 0 |
| ether1-R5-BALANCEADOR (1) @ RB-HOTSPOT-... | builtin | 9.16309E+07 |
| ether1-R5-BALANCEADOR (1) @ RB-HOTSPOT-... | builtin | 8.91908E+06 |
| active_clients @ RB-HOTSPOT-CENTRAL | builtin | 4 |
| ping @ RB-HOTSPOT-CENTRAL | builtin | 0.000313 |
| ath0 (5) @ AP-SIERRITA-NARA tx | builtin | |
| ath0 (5) @ AP-SIERRITA-NARA rx | builtin | |
| ping @ RB-ADMINISTRADOR | builtin | 0.000358 |
| active_clients | function | 1735 |

- The Dude permite configurar gráficos de área visual para representar cualquier dato disponible de un dispositivo. Para ello hace uso de parámetros igual que el menú funciones (functions).

Graficos en The Dude

❖ Configuración de Charts

Charts Data Sources

| Name | Notes |
|------------|-------|
| HS-ACTIVOS | |

HS-ACTIVOS - Chart

Name: HS-ACTIVOS

| # | Source | Notes |
|---|----------------|-------|
| 1 | active_clients | |

Elements:

Ok Cancel Apply Notes Copy Remove

New Chart Line

Source: active_clients

Line Style: 1 pt

Line Color: [Purple]

Line Opacity: 30%

Fill Color: [Purple]

Fill Opacity: 30%

Ok Cancel Apply Notes Copy Remove

Graficos en The Dude

❖ Graficas de Charts.

NETWI BACKBONE

Layer: links Zoom: 100%

RB-ADMINISTRADOR
cpu: 29.25% mem: 28% disk: 23%
10.201.201.2
ACTIVOS:1740



Session Settings Dashboard

Safe Mode Session: 10.11.11.1

Hotspot

Servers Server Profiles Users User Profiles Active Hosts IP Bindings Service Ports Wa

| Server | User | Domain | Address | Uptime | Idle |
|---------------------------|----------|--------|----------------|-------------|------|
| hs-vlan-HOTSPOT-SANMI... | rr33zen | | 172.16.80.198 | 01:35:47 | 00: |
| hs-vlan-HOTSPOT-INCEN... | 5522ngt | | 172.16.49.91 | 16:02:18 | 00: |
| hs-vlan-HOTSPOT-TARAU... | 3534bli | | 172.16.121.97 | 1d 00:38... | 00: |
| hs-vlan-HOTSPOT-SECTO... | 8837ksg | | 172.16.100.... | 3d 02:18... | 00: |
| hs-vlan-HOTSPOT-SECTO... | 6622dmv | | 172.16.100.66 | 13:29:54 | 00: |
| hs-vlan-HOTSPOT-SANMI... | rr43som | | 172.16.80.35 | 16:30:13 | 00: |
| hs-vlan-HOTSPOT-SIERRITA | ff42cdy | | 172.16.111.... | 10:32:09 | 00: |
| hs-vlan-HOTSPOT-SANMI... | rr33yaw | | 172.16.81.31 | 00:29:22 | 00: |
| hs-bridge-HOTSPOT-LOCAL | 6627dkf | | 192.168.11... | 11:28:49 | 00: |
| hs-vlan-HOTSPOT-MULTIP... | 6675hea | | 172.16.240.97 | 03:32:36 | 00: |
| hs-vlan-HOTSPOT-CERRO... | cc546ggg | | 172.16.10.109 | 14:24:13 | 00: |
| hs-vlan-HOTSPOT-CERRO... | 5577bxi | | 172.16.8.174 | 01:12:47 | 00: |
| hs-vlan-HOTSPOT-CERRO... | 5577ccq | | 172.16.9.46 | 13:24:43 | 00: |
| hs-vlan-HOTSPOT-MULTIP... | 3344mpm | | 172.16.240.73 | 00:06:13 | 00: |
| hs-vlan-HOTSPOT-SANRA... | cc33zew | | 172.16.90.237 | 1d 11:52... | 00: |
| hs-vlan-HOTSPOT-CIENEG... | 6677ark | | 172.16.20.52 | 00:12:54 | 00: |
| hs-vlan-HOTSPOT-CERRO... | 5546bul | | 172.16.8.110 | 00:04:15 | 00: |
| hs-vlan-HOTSPOT-MULTIP... | 5564dva | | 172.16.241.54 | 00:04:45 | 00: |
| hs-vlan-HOTSPOT-TEMBL... | 5574uls | | 172.16.211.... | 16:24:31 | 00: |
| hs-vlan-HOTSPOT-INCEN... | 6633oux | | 172.16.50.162 | 00:15:37 | 00: |
| hs-bridge-HOTSPOT-LOCAL | 5533uav | | 192.168.11... | 00:08:54 | 00: |
| hs-vlan-HOTSPOT-SECTO... | 8837amq | | 172.16.101.... | 17:33:05 | 00: |
| hs-vlan-HOTSPOT-CIENEG... | 3342duj | | 172.16.20.137 | 02:51:20 | 00: |
| hs-vlan-HOTSPOT-SANMI... | rr33wbw | | 172.16.80.238 | 11:38:37 | 00: |
| hs-vlan-HOTSPOT-MULTIP... | 6675fqc | | 172.16.240.... | 15:41:37 | 00: |
| hs-vlan-HOTSPOT-MULTIP... | 6675fqd | | 172.16.240.... | 01:49:17 | 01: |
| hs-vlan-HOTSPOT-MULTIP... | 6675ktx | | 172.16.240.... | 12:30:04 | 00: |
| hs-vlan-HOTSPOT-MULTIP... | 3344njj | | 172.16.240.... | 03:54:54 | 03: |
| hs-vlan-HOTSPOT-TARAU... | 6654vgv | | 172.16.123.... | 00:42:21 | 00: |
| hs-vlan-MULTIPUNTO-NEV... | 5564xgu | | 172.16.230.... | 00:20:27 | 00: |
| hs-vlan-HOTSPOT-CIENEG... | 5566hyj | | 172.16.21.173 | 3d 02:41... | 00: |
| hs-vlan-HOTSPOT-INCEN... | 7733ipg | | 172.16.50.55 | 07:10:27 | 00: |
| hs-vlan-MULTIPUNTO-NEV... | 6654ocz | | 172.16.230.... | 00:09:05 | 00: |
| hs-vlan-HOTSPOT-MULTIP... | 6675rxz | | 172.16.240.... | 13:40:12 | 01: |
| hs-vlan-HOTSPOT-CERRO... | 5522zvj | | 172.16.10.220 | 12:33:46 | 00: |
| hs-vlan-HOTSPOT-SECTO... | 6657dvf | | 172.16.101.... | 00:49:13 | 00: |

RouterOS WinBox

1852 items



MERCADOWISP MEXICO

Graficos en The Dude

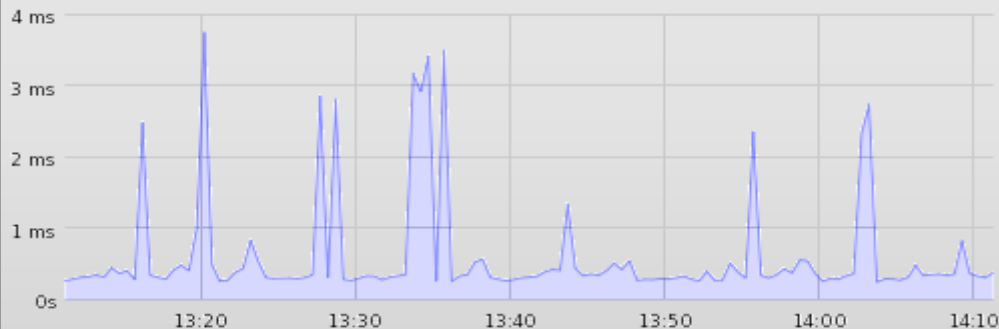
RB-ADMINISTRADOR

cpu: 23.75% mem: 28% disk: 23%

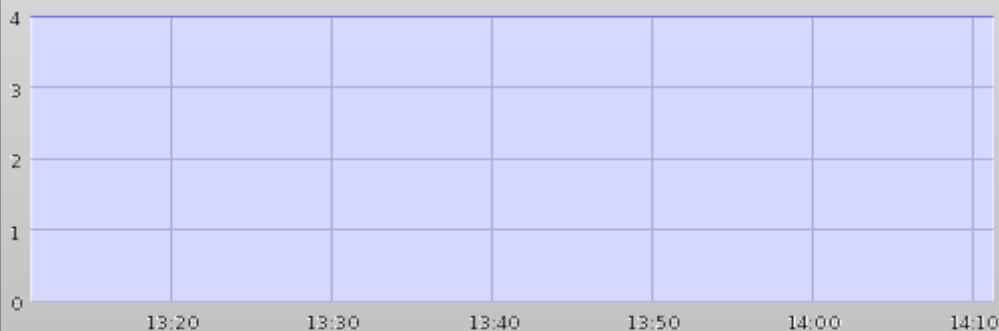
10.201.201.2

ACTIVOS:1713

Device RB-ADMINISTRADOR ()
IP: 10.201.201.2
MAC: E4:8D:8C:14:72:28
Services (2):
Up: ping, active_clients
System Name: RB-HOTSPOT
Description: RouterOS CCR1016-12G
Uptime: 5d 01:46:14.00
RouterOS: 6.41.3 (stable) (tile) dude, routeros-tile, user-manager
Notes:



ping @ RB-ADMINISTRADOR



active_clients @ RB-ADMINISTRADOR

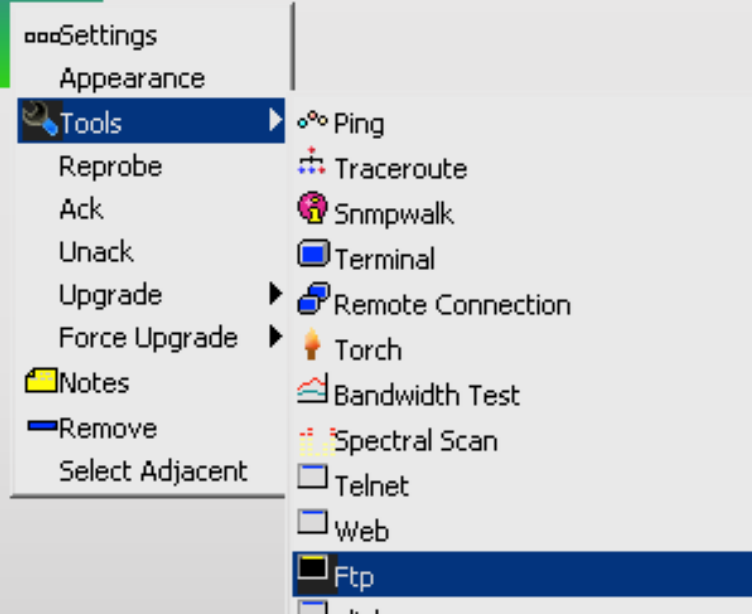




Herramientas (Tools) en The Dude

ECMP2-BALANCEADOR-VINEDOS

cpu: 16% disk: 69%
10.10.15.3
Canal: 5655
Senal: -30



❖ **The Dude** maneja herramientas predefinidas pero podemos añadir algunas personalizadas, que nos permitan realizar diferencias funciones con dispositivos mikrotik o de otros fabricantes



Herramientas (Tools) en The Dude

| Contents | |
|----------|-----------------------------|
| + [icon] | Charts |
| [icon] | Devices |
| [icon] | Files |
| [icon] | Functions |
| [icon] | History Actions |
| [icon] | Links |
| [icon] | Log |
| [icon] | Mib Nodes |
| + [icon] | Network Maps |
| [icon] | Networks |
| [icon] | Notifications |
| - [icon] | Panels |
| [icon] | admin ::ffff:10.3.133.72 |
| [icon] | miguel ::ffff:189.216.11... |
| [icon] | Probes |
| [icon] | Root |
| [icon] | Services |
| [icon] | Tools |

echoplink-sh-macbook - Tool

Type:

Name:

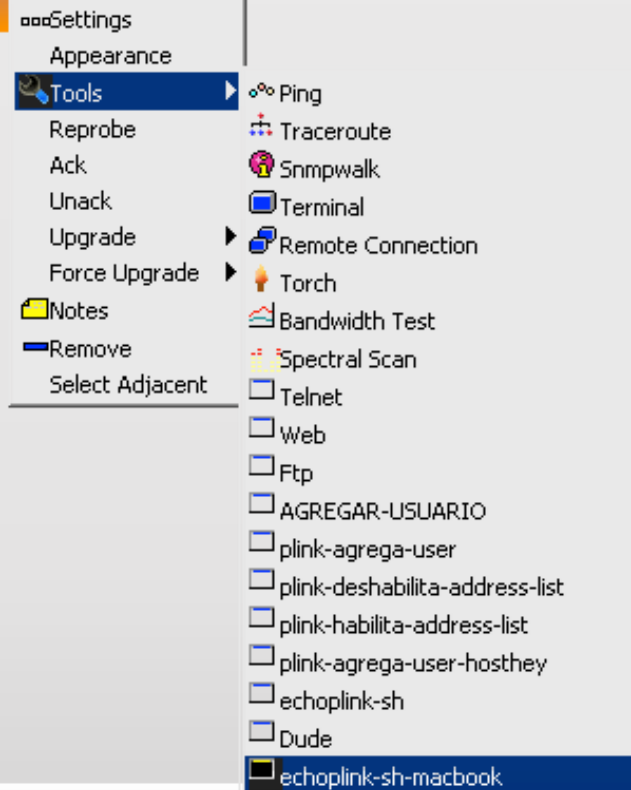
Command:

Device:

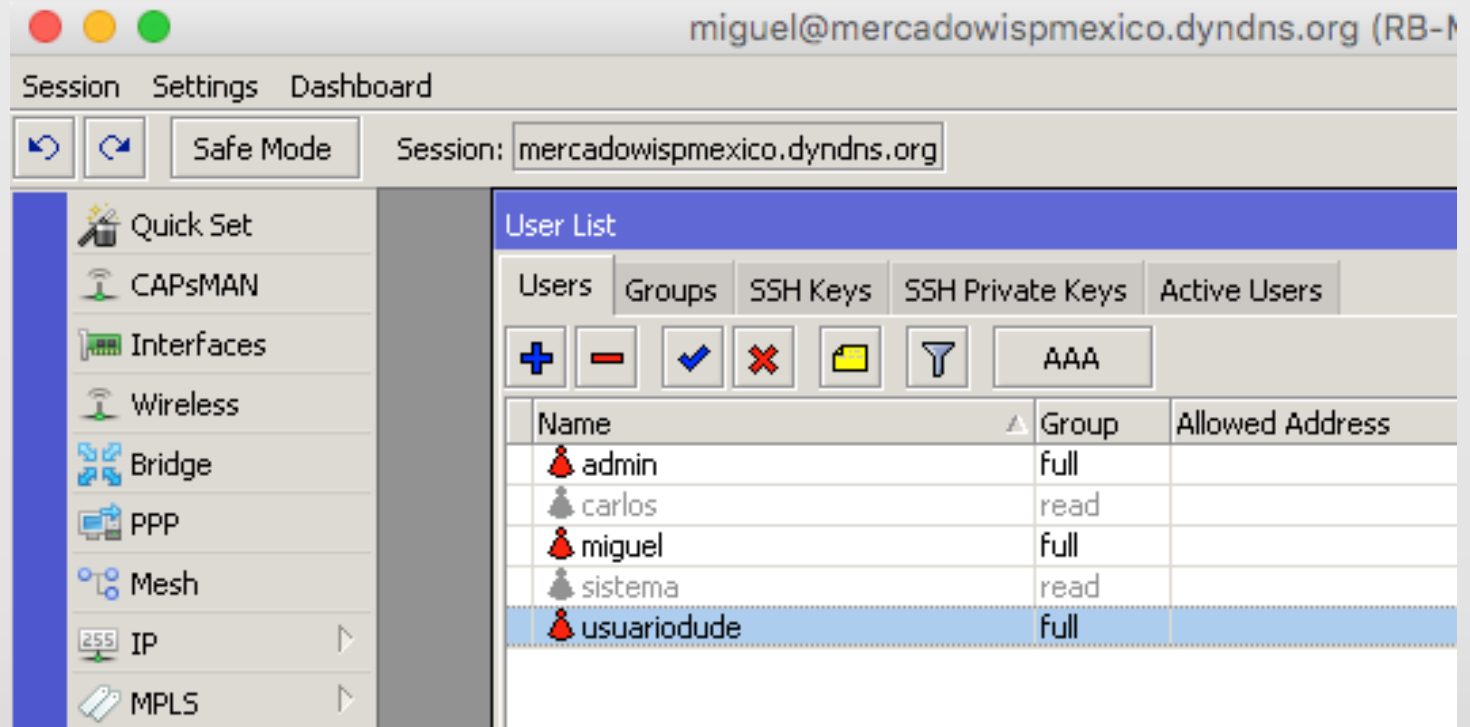
❖ **Uso de la herramienta plink en conjunto con The Dude para herramienta personalizada**

Herramientas (Tools) en The Dude

RB OFICINA ADMINISTRADOR
cpu: 2% mem: 19% disk: 26%
10.1.1.2



The screenshot shows the 'Tools' menu in The Dude. The menu is open, displaying a list of tools. The 'Tools' option is highlighted in blue. Below it, a sub-menu is visible, listing various tools such as Ping, Traceroute, Snmpwalk, Terminal, Remote Connection, Torch, Bandwidth Test, Spectral Scan, Telnet, Web, Ftp, AGREGAR-USUARIO, plink-agrega-user, plink-deshabilita-address-list, plink-habilita-address-list, plink-agrega-user-hostthey, echoplink-sh, Dude, and echoplink-sh-macbook.



The screenshot shows the 'User List' tab in The Dude. The 'Users' tab is selected, and the 'User List' table is displayed. The table has columns for Name, Group, and Allowed Address. The 'usuariodude' user is highlighted in blue.

| Name | Group | Allowed Address |
|-------------|-------|-----------------|
| admin | full | |
| carlos | read | |
| miguel | full | |
| sistema | read | |
| usuariodude | full | |

```
[MacBook-Pro-de-miguel:~ mercadowispMexico$ cat echoplink-sh-macbook
```

```
#!/bin/bash
```

```
# Este es nuestro primer programa
```

❖ Con este tipo de herramientas es posible gestionar mil dispositivos en este ejemplo agregar un usuario de manera masiva.

```
ip=$1
```

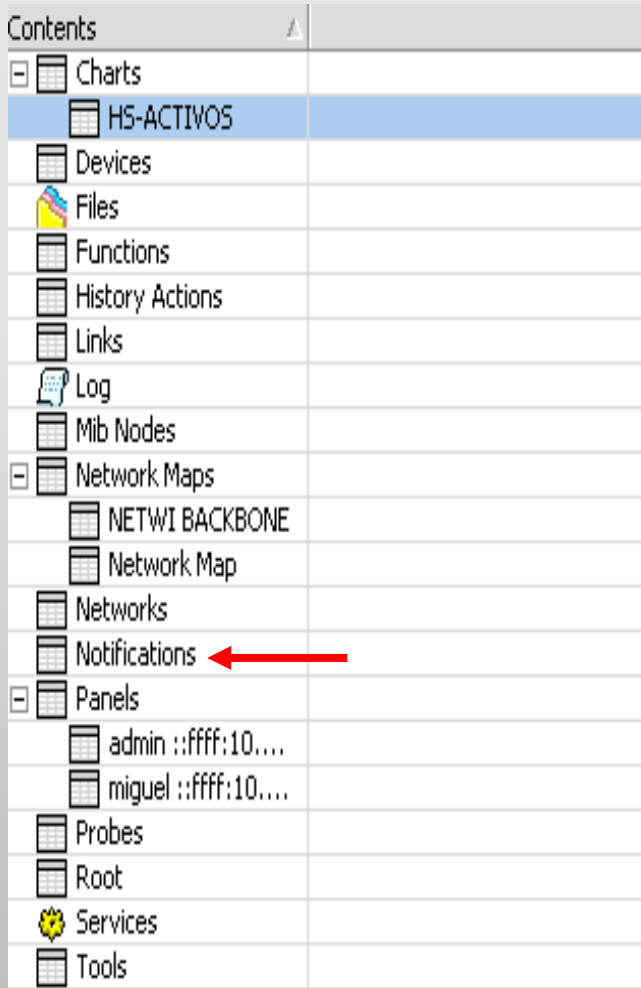
```
user=$2
```

```
pass=$3
```

```
echo n | plink -ssh $ip -P 22 -l $user -pw $pass "/user add name=usuariodude password=12345 group=full disabled=no
```

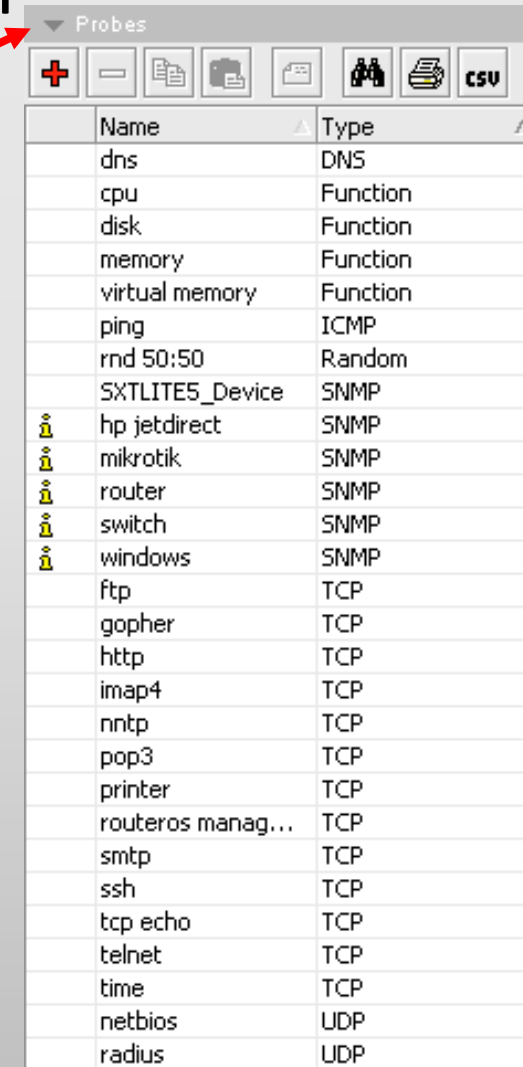
Notificaciones en The Dude

- ❖ The Dude puede notificar de distintas formas cuando un dispositivo cambia de estado.
- ❖ Una notificación toma acción cuando uno o más de un servicio monitoreado en un dispositivo deja de estar o vuelve a estar disponible.



| Contents | |
|--------------------------|--|
| [-] Charts | |
| [-] HS-ACTIVOS | |
| [-] Devices | |
| [-] Files | |
| [-] Functions | |
| [-] History Actions | |
| [-] Links | |
| [-] Log | |
| [-] Mib Nodes | |
| [-] Network Maps | |
| [-] NETWI BACKBONE | |
| [-] Network Map | |
| [-] Networks | |
| [-] Notifications | |
| [-] Panels | |
| [-] admin ::ffff:10.... | |
| [-] miguel ::ffff:10.... | |
| [-] Probes | |
| [-] Root | |
| [-] Services | |
| [-] Tools | |

- The Dude maneja servicios predefinidos los cuales pueden ser encuestados por una notificación

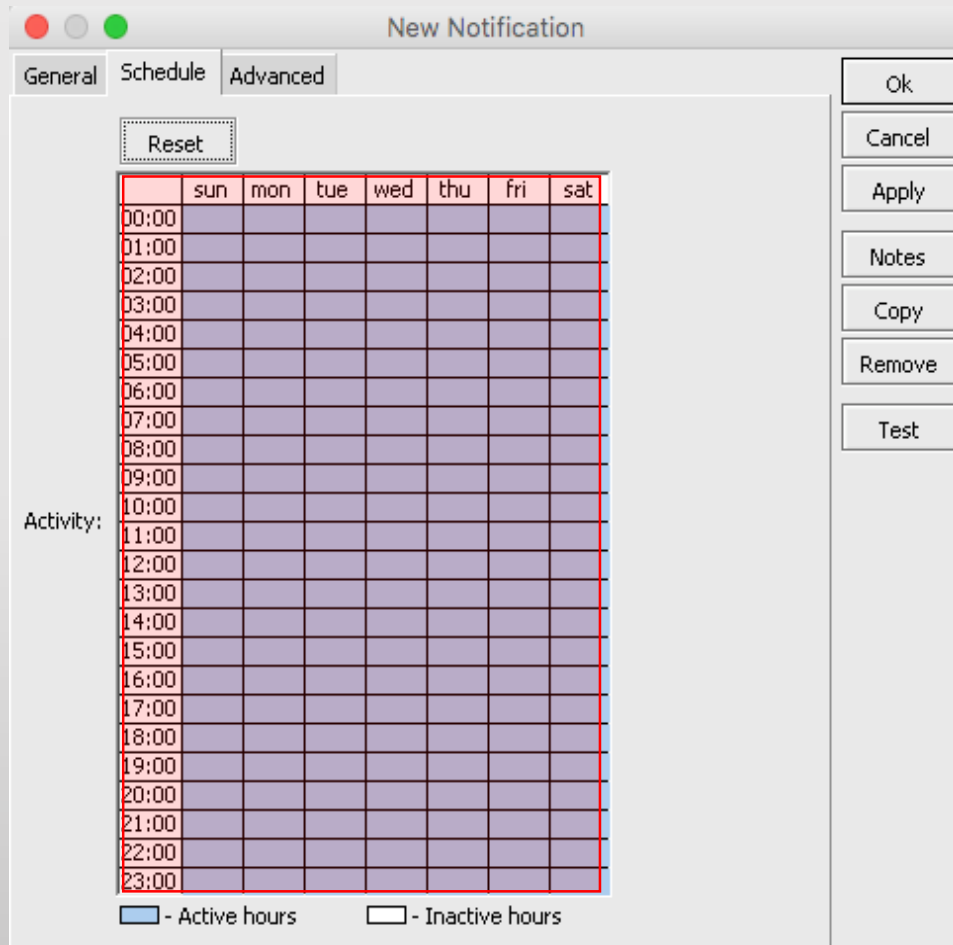


| Probes | |
|---|----------|
| [+] [-] [Print] [Export] [Import] [Refresh] [CSU] | |
| Name | Type |
| dns | DNS |
| cpu | Function |
| disk | Function |
| memory | Function |
| virtual memory | Function |
| ping | ICMP |
| rnd 50:50 | Random |
| SXTLITE5_Device | SNMP |
| hp jetdirect | SNMP |
| mikrotik | SNMP |
| router | SNMP |
| switch | SNMP |
| windows | SNMP |
| ftp | TCP |
| gopher | TCP |
| http | TCP |
| imap4 | TCP |
| nntp | TCP |
| pop3 | TCP |
| printer | TCP |
| routeros manag... | TCP |
| smtp | TCP |
| ssh | TCP |
| tcp echo | TCP |
| telnet | TCP |
| time | TCP |
| netbios | UDP |
| radius | UDP |

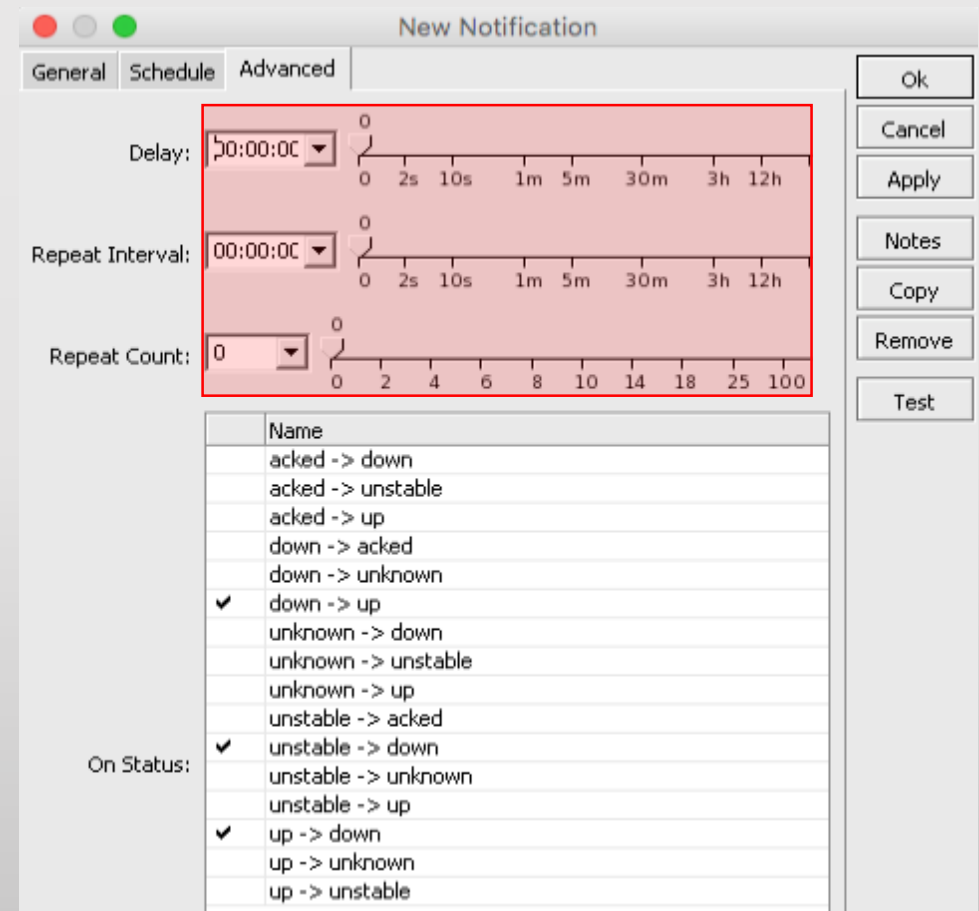
- The Dude permite configurar nuevos servicios en panel probes

Notificaciones en The Dude

❖ Se pueden configurar notificaciones independientes de acuerdo a necesidades.

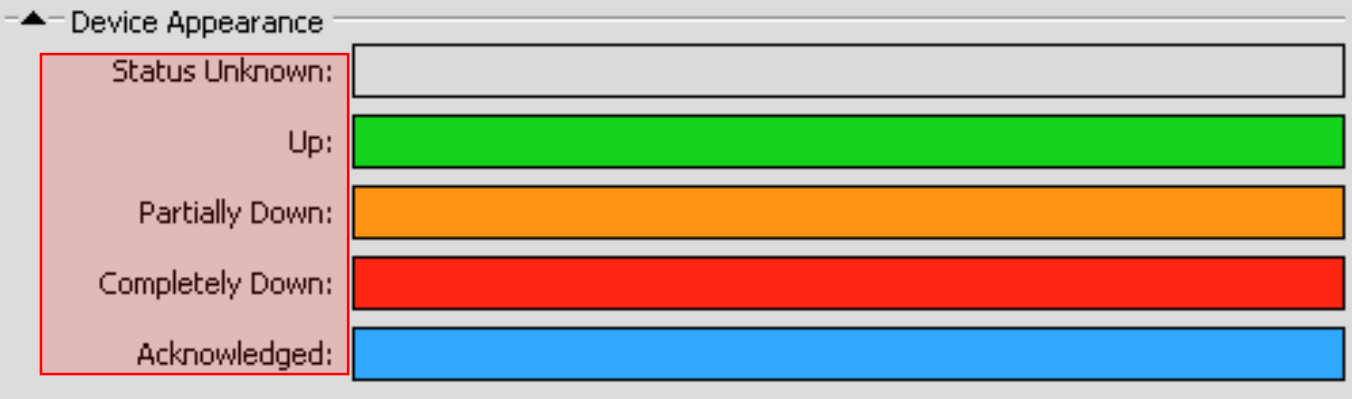


- Planificador de tiempo en el que una notificación se encuentra trabajando



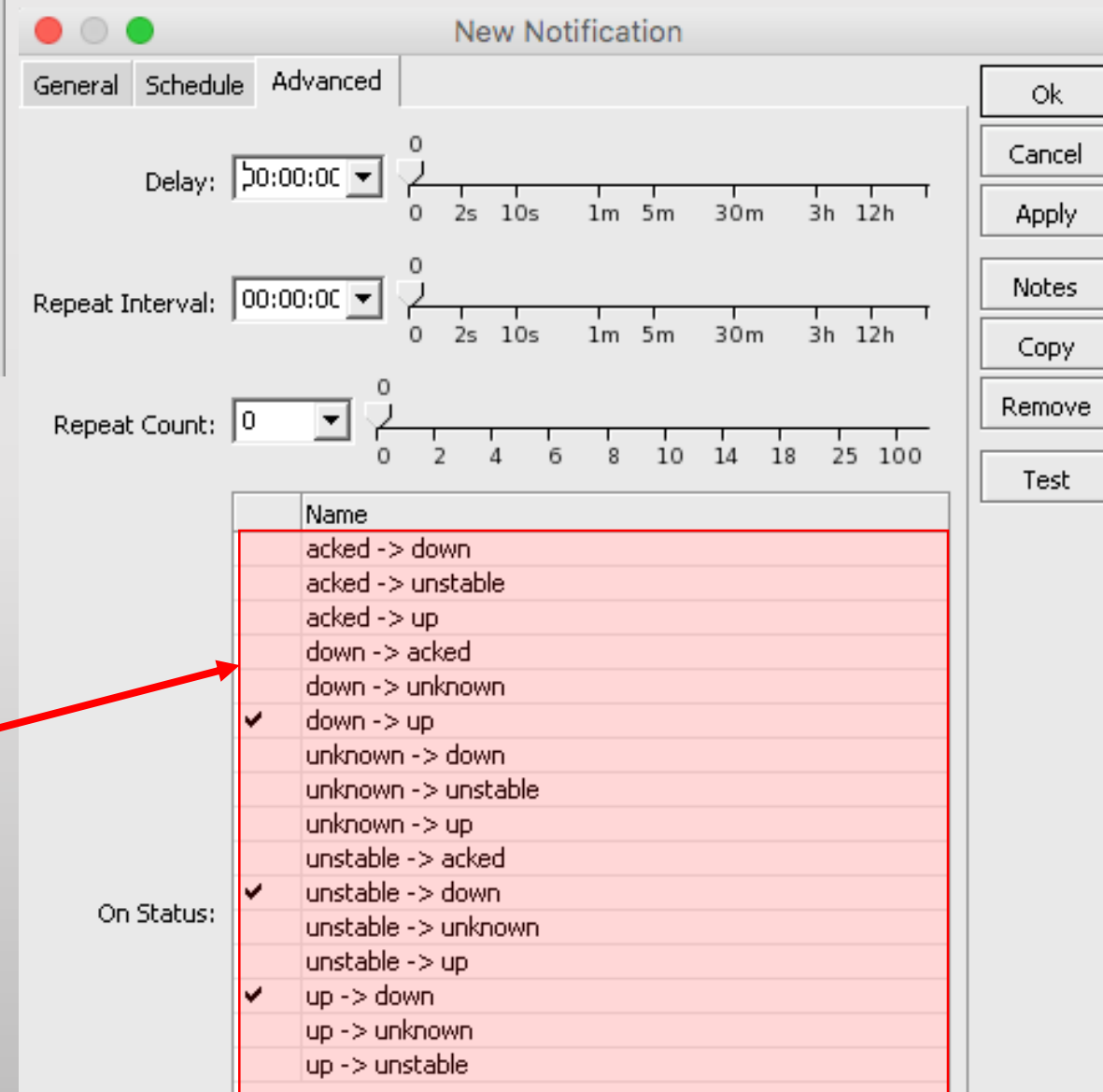
- Intervalos de tiempo y contadores que una notificación encuesta entre cambios de estado.

Notificaciones en The Dude



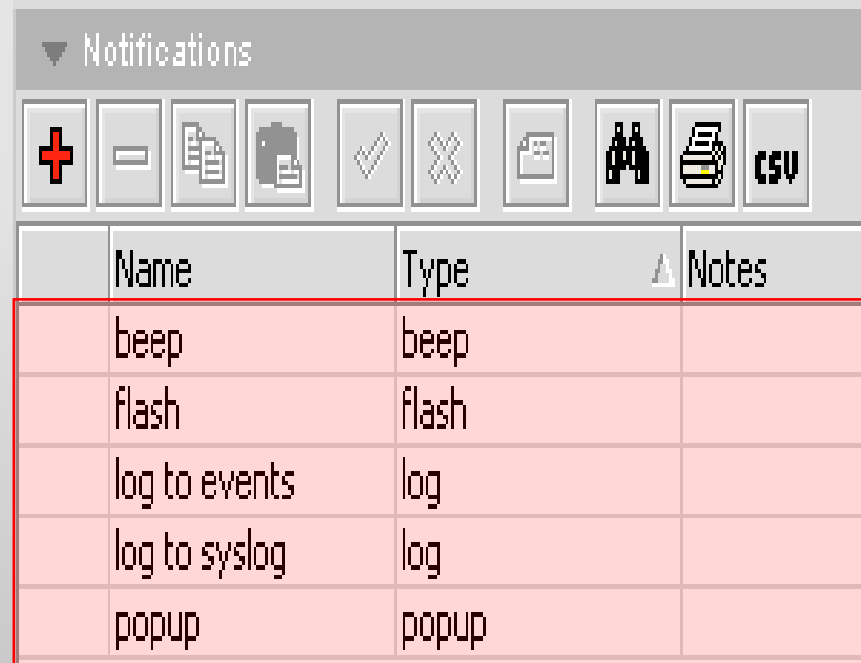
❖ Estados de un Dispositivo

❖ Cambios de estado de un dispositivo que pueden accionar la notificación



Notificaciones en The Dude

- ❖ Una notificación puede ser asignada en los mismos 3 niveles explicado anteriormente.
- ❖ The Dude maneja algunas notificaciones predefinidas y permite agregar otras.



| | Name | Type | Notes |
|--|---------------|-------|-------|
| | beep | beep | |
| | flash | flash | |
| | log to events | log | |
| | log to syslog | log | |
| | popup | popup | |

- **En esta presentación solo trabajaremos con notificaciones personalizadas.**



Notificaciones en The Dude

Notificación por email (gmail).

Configuración en Servidor (Winbox).

Dialog box titled "Email Settings" with the following fields:

- Server: 74.125.127.108
- Port: 587
- Start TLS: yes
- From: mercadowispmexico@gmail.com
- User: mercadowispmexico@gmail.com
- Password: *****

Buttons: OK, Cancel, Apply, Send Email

Window titled "EMAIL - Notification" with tabs: General, Schedule, Advanced.

General Tab:

- Name: EMAIL
- Enabled
- Type: email
- Server IP: 74.125.127.108
- Server Dns Name: smtp.gmail.com
- Server Port: 587
- User: monitormercadowispmexico@gmail.com
- Password: *****
- Tls Mode: yes
- From: monitormercadowispmexico@gmail.com
- To: monitormercadowispmexico@gmail.com

Subject:

SERVICIO [Probe.Name] EN [Device.Name]
ESTA [Service.Status]
IP: [Device.FirstAddress]
MAC: [Device.MacAddressesCommaList]

Body:

SERVICIO [Probe.Name] EN [Device.Name]
ESTA [Service.Status]
IP: [Device.FirstAddress]
MAC: [Device.MacAddressesCommaList]

Buttons: Ok, Cancel, Apply, Notes, Copy, Remove, Test

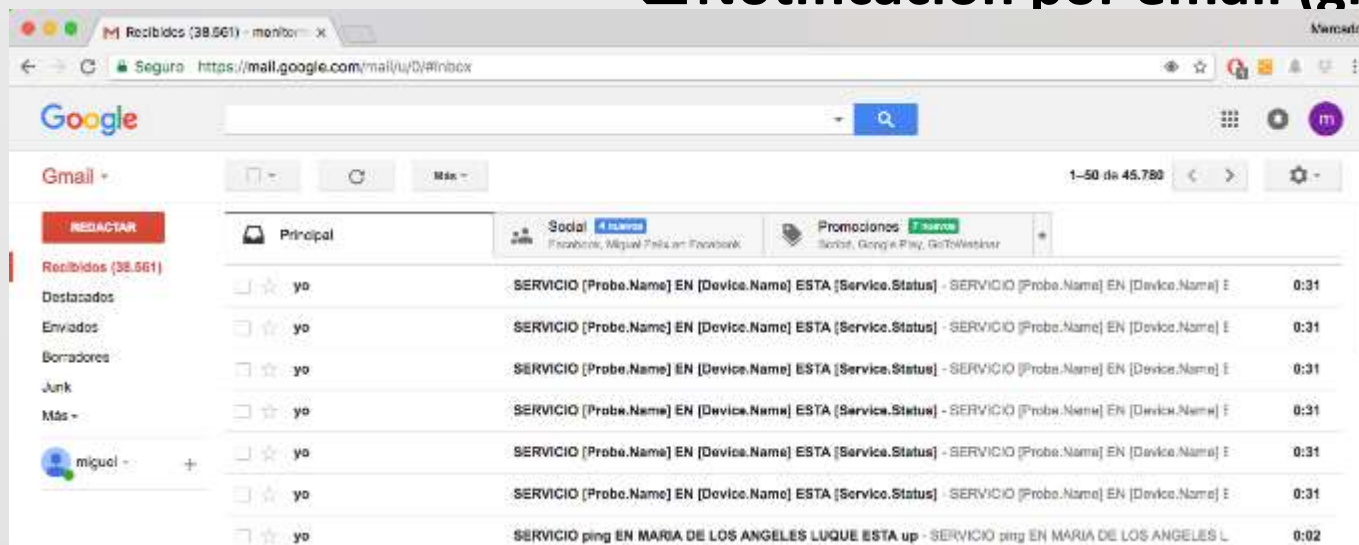
Configuración en the dude

SERVICIO [Probe.Name] EN
[Device.Name] ESTA [Service.Status]
IP:[Device.FirstAddress]
MAC:[Device.MacAddressesCommaList]



Notificaciones en The Dude

☐ Notificación por email (gmail).



Pruebas de Gmail en Web y Movil





Notificaciones en The Dude

Notificacion por sms (con modem usb).

Configuración en Servidor (Winbox).

SMS Settings

Receive Enabled

Port: usb3

Channel: 0

Secret:

Allowed Number:

Keep Max SMS: 100

OK Cancel Apply Inbox Send SMS

SMS MIGUEL FELIX - Notification

General Schedule Advanced

Name: SMS MIGUEL FELIX

Enabled

Type: execute on server

▼ Insert Variable

```
#
:local notificationtext "Service
[Probe.Name] on [Device.Name] is now
[Service.Status]"
:local usbport "usb3"
#
# First Name Last Name
:local phonenumber "6681055479"
#
/tool sms send phone-number="$phonenumber"
$usbport message="$notificationtext"
# And test it via pressing Test button.
```

Command:

Ok Cancel Apply Notes Copy Remove Test

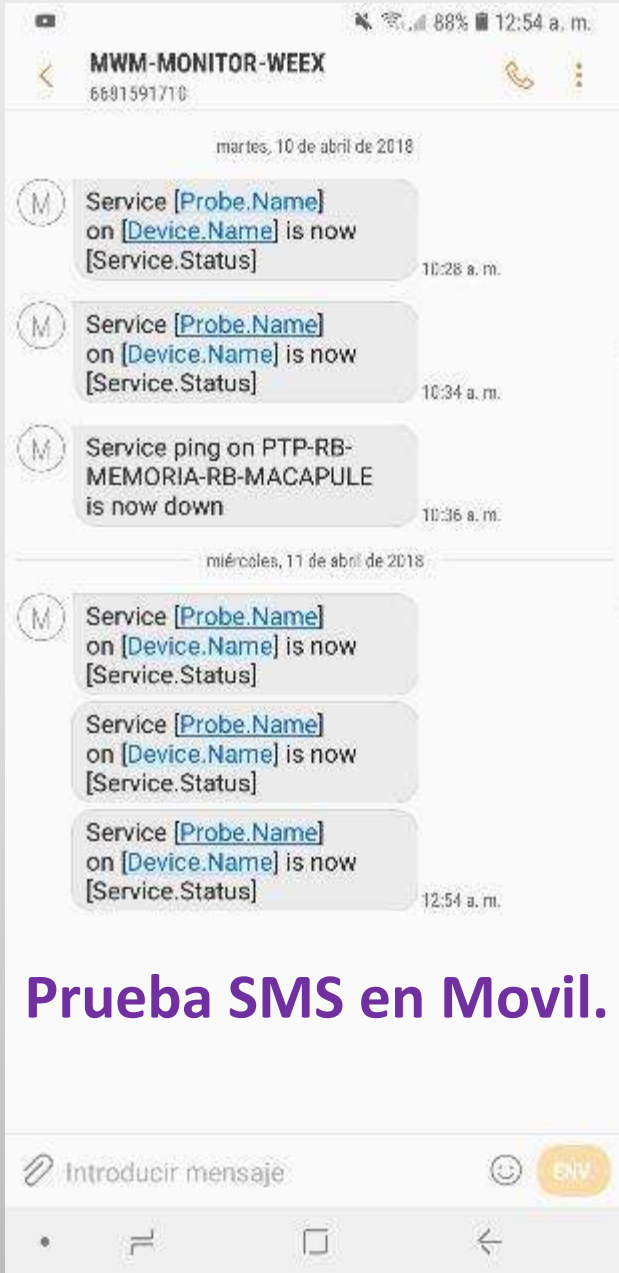
Configuración en The Dude.

```
#
:local notificationtext "Service [Probe.Name] on [Device.Name] is now [Service.Status]"
:local usbport "usb3"
#
#
# First Name Last Name
:local phonenumber "6681055479"
#
/tool sms send phone-number="$phonenumber" $usbport message="$notificationtext"
# And test it via pressing Test button.
```

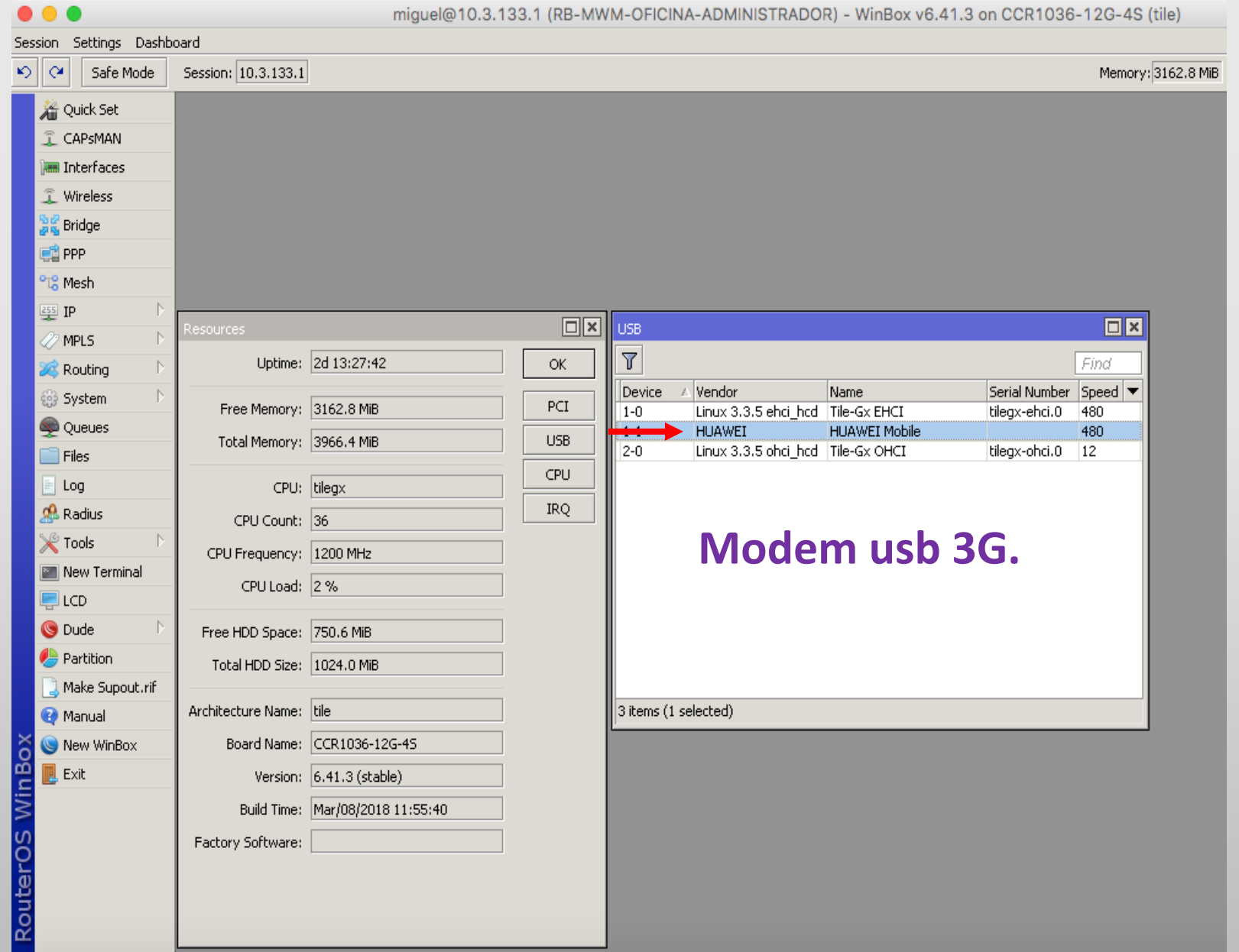



Notificaciones en The Dude

- Notificación por sms (con modem usb).



Prueba SMS en Movil.



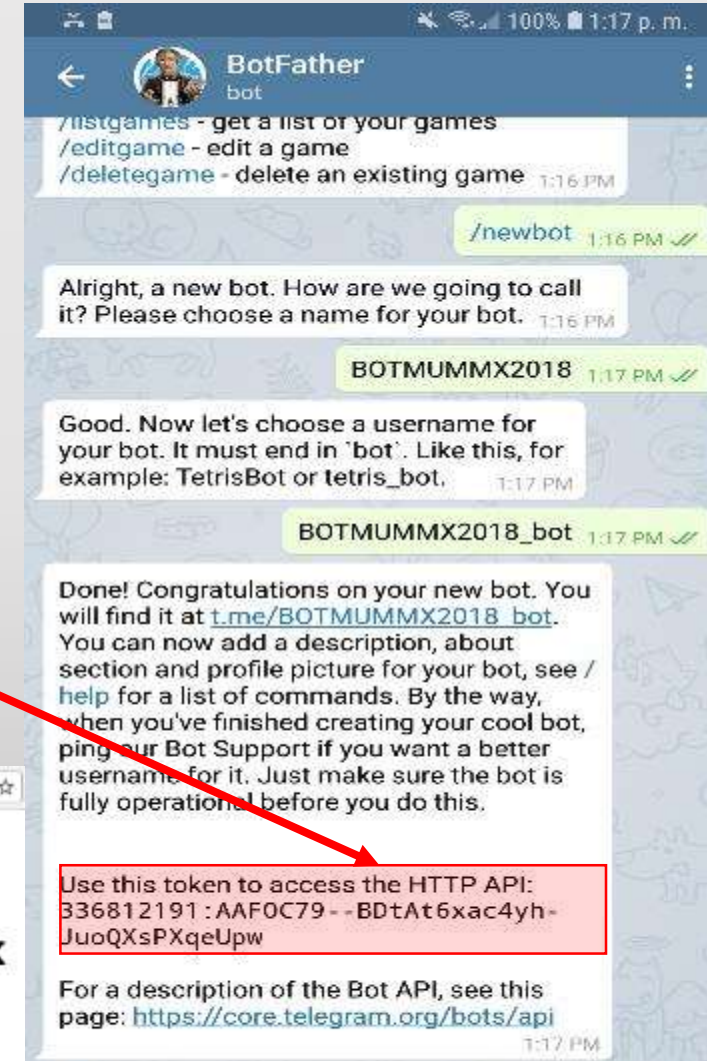


• Notificación por Telegram en The Dude

- ❖ Es posible notificar solo para el bot o una para notificación en un grupo de Telegram.
- ❖ Es necesario crear un bot para realizar las notificaciones

<https://core.telegram.org/bots#6-botfather>

- <https://api.telegram.org/bot336812191:AAF0C79--BDtAt6xac4yh-JuoQXsPXqeUpw/getUpdates>



```

Seguro | https://api.telegram.org/bot336812191:AAF0C79--BDtAt6xac4yh-JuoQXsPXqeUpw/getUpdates
{"ok":true,"result":[{"update_id":827785428,
"message":{"message_id":3,"from":
{"id":524279003,"is_bot":false,"first_name":"MIGUEL ANGEL","last_name":"FELIX
GARCIA","language_code":"es"},"chat":{"id":524279003,"first_name":"MIGUEL
ANGEL","last_name":"FELIX
GARCIA","type":"private"},"date":1523475926,"text":"/start","entities":
[{"offset":0,"length":6,"type":"bot_command"}]}}]}
  
```





Notificaciones en The Dude

TELEGRAM BOT MUMMX2018 - Notification

General Schedule Advanced

Name: TELEGRAM BOT MUMMX2018

Enabled

Type: execute on server

▼ Insert Variable

```

/tool fetch url="https://api.telegram.org/
bot336812191:AAF0C79--BDtAt6xac4yh-
JuoQXsPXqeUpw/sendMessage?
chat_id=524279003&parse_mode=HTML&text=El
servicio [Probe.Name] en <b>[Device.Name]</
b> esta ahora <b>[Service.Status]
([Service.ProblemDescription]) </
b><pre>Reporte generado a las [TimeAndDate]</
pre>" keep-result=no

```

Command:

Ok
Cancel
Apply
Notes
Copy
Remove
Test

Notificacion en The Dude

Notificacion para Bot telegram.



```

/tool fetch url="https://api.telegram.org/bot336812191:AAF0C79--BDtAt6xac4yh-
JuoQXsPXqeUpw/sendMessage?chat_id=524279003&parse_mode=HTML&text=El servicio [Probe.Name]
en <b>[Device.Name]</b> esta ahora <b>[Service.Status] ([Service.ProblemDescription])
</b><pre>Reporte generado a las [TimeAndDate]</pre>" keep-result=no

```

MERCADOWISP MEXICO

100% 2:51 p. m.

BOTMUMMX2018 bot

/start 1:45 PM ✓

El servicio [Probe.Name] en [Device.Name] esta ahora [Service.Status] ([Service.ProblemDescription]) Reporte generado a las [TimeAndDate] 2:44 PM

El servicio [Probe.Name] en [Device.Name] esta ahora [Service.Status] ([Service.ProblemDescription]) Reporte generado a las [TimeAndDate] 2:44 PM

El servicio [Probe.Name] en [Device.Name] esta ahora [Service.Status] ([Service.ProblemDescription]) Reporte generado a las [TimeAndDate] 2:44 PM

El servicio [Probe.Name] en [Device.Name] esta ahora [Service.Status] ([Service.ProblemDescription]) Reporte generado a las [TimeAndDate] 2:46 PM

El servicio [Probe.Name] en [Device.Name] esta ahora [Service.Status] ([Service.ProblemDescription]) Reporte generado a las [TimeAndDate] 2:46 PM

Mensajes no leídos

El servicio [Probe.Name] en [Device.Name] esta ahora [Service.Status] ([Service.ProblemDescription]) Reporte generado a las [TimeAndDate] 2:50 PM

El servicio [Probe.Name] en [Device.Name]

Mensaje

Notificaciones en The Dude



```
https://api.telegram.org/bot336812191:AAF0C79--BDtAt6xac4yh-JuoQXsPXqeUpw/getUpdates

{"ok":true,"result":[{"update_id":827785428,
"message":{"message_id":3,"from":
{"id":524279003,"is_bot":false,"first_name":"MIGUEL ANGEL","last_name":"FELIX
GARCIA","language_code":"es"},"chat":{"id":524279003,"first_name":"MIGUEL
ANGEL","last_name":"FELIX
GARCIA","type":"private"},"date":1523475926,"text":"/start","entities":
[{"offset":0,"length":6,"type":"bot_command"}]},{update_id":827785429,
"message":{"message_id":11,"from":
{"id":524279003,"is_bot":false,"first_name":"MIGUEL ANGEL","last_name":"FELIX
GARCIA","language_code":"es"},"chat":{"id":317591004,"title":"GPO-MUM-
MX2018","type":"group","all_members_are_administrators":true},"date":1523480269
,"new_chat_participant":
{"id":336812191,"is_bot":true,"first_name":"BOTMUMMX2018","username":"BOTMUMMX2
018_bot"},"new_chat_member":
{"id":336812191,"is_bot":true,"first_name":"BOTMUMMX2018","username":"BOTMUMMX2
018_bot"},"new_chat_members":
[{"id":336812191,"is_bot":true,"first_name":"BOTMUMMX2018","username":"BOTMUMMX
2018_bot"}]}}]}
```

New Notification

General Schedule Advanced

Name: TELEGRAM GRUPO MUMMX2018

Enabled

Type: execute on server

▼ Insert Variable

```
/tool fetch url="https://api.telegram.org/
bot336812191:AAF0C79--BDtAt6xac4yh-
JuoQXsPXqeUpw/sendMessage?
chat_id=-317591004&parse_mode=HTML&text=E1
servicio [Probe.Name] en <b>[Device.Name]</
b> esta ahora <b>[Service.Status]
([Service.ProblemDescription]) </
b><pre>Reporte generado a las [TimeAndDate]</
pre>" keep-result=no
```

Command:

Ok Cancel Apply Notes Copy Remove Test

Notificación en The Dude

- Pagina para obtener chat id

- <https://api.telegram.org/bot336812191:AAF0C79--BDtAt6xac4yh-JuoQXsPXqeUpw/getUpdates>

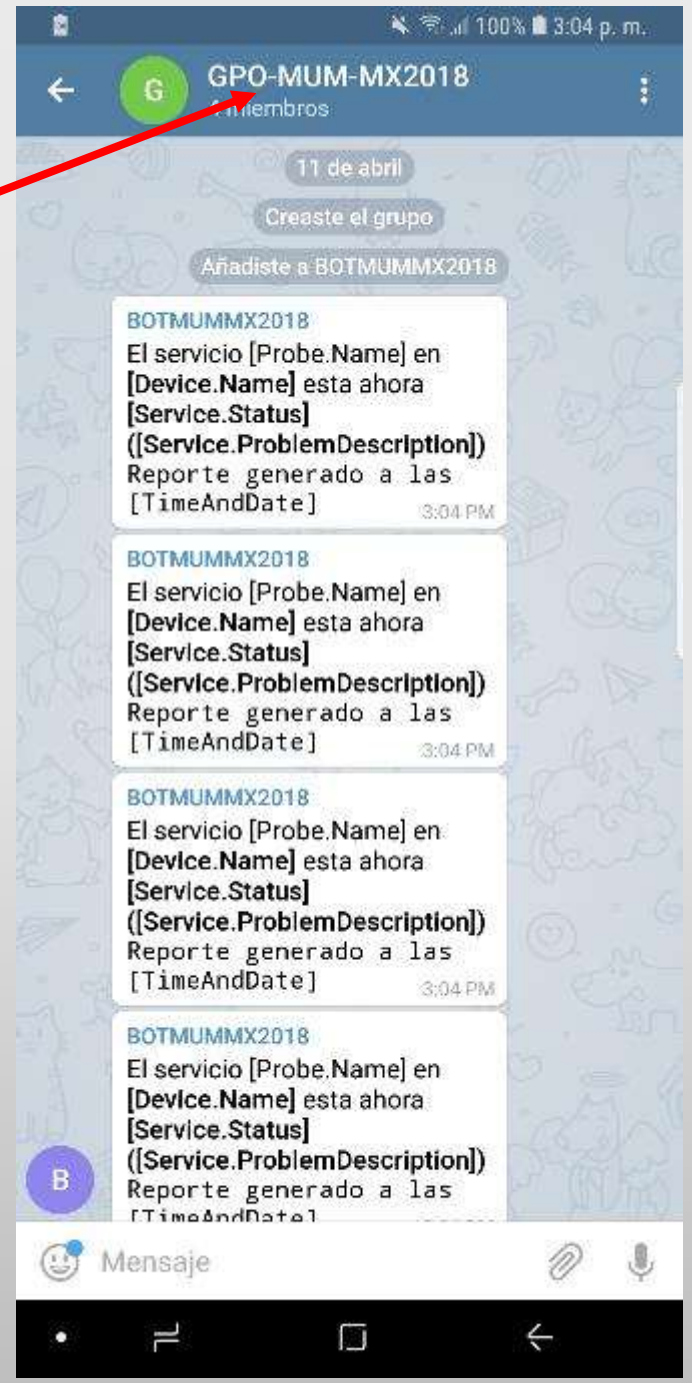
Notificaciones en The Dude



Notificacion para grupo de Telegram.

- Notificacion en The Dude

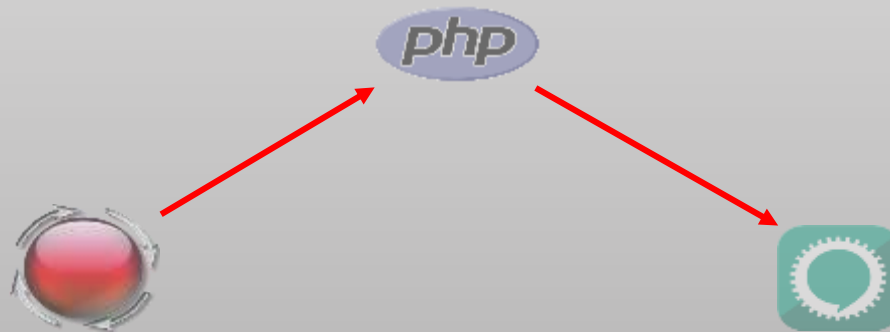
```
/tool fetch url="https://api.telegram.org/bot336812191:AAF0C79--BDtAt6xac4yh-JuoQXsPXqeUpw/sendMessage?chat_id=-317591004&parse_mode=HTML&text=El servicio [Probe.Name] en <b>[Device.Name]</b> esta ahora <b>[Service.Status] ([Service.ProblemDescription]) </b><pre>Reporte generado a las [TimeAndDate]</pre>" keep-result=no
```



Notificaciones en The Dude

□ *Notificación por SMS Gateway API.*

- ❖ The Dude puede hacer uso de API's para envío de notificaciones, en este ejemplo.
- ❖ Se requiere de un servidor web con soporte php para realizarlo.
- ❖ Es necesario registrar una cuenta en <https://msggateway.me> es GRATIS!!!!
- ❖ Por el momento la App solo tiene soporte para android.



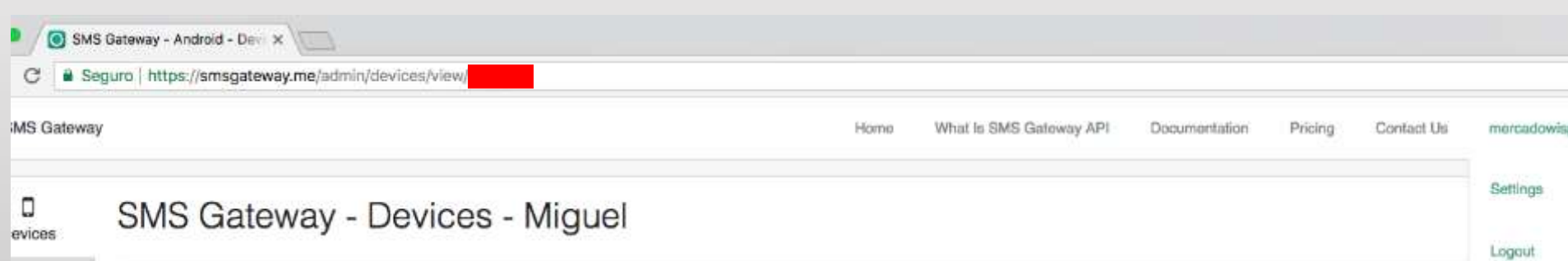
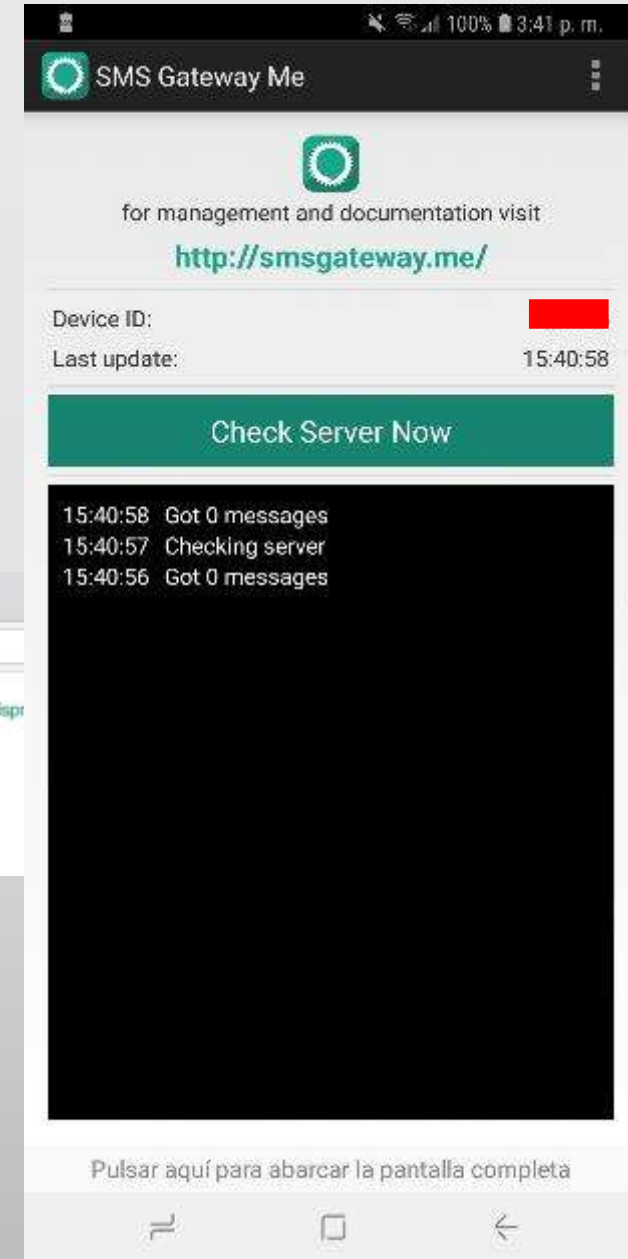


Notificaciones en The Dude

- App en movil android. 

☐ Notificacion por SMS Gateway API.

- Registro de cuenta en SMS Gateway.



Notificaciones en The Dude



Notificacion por SMS Gateway API.

- Api php corriendo en servidor

```
Last login: Wed Apr 11 17:18:27 2018 from [REDACTED]
manpath: can't set the locale; make sure $LC_* and $LANG are correct
[root@MWM-ADMIN-OFICINA:~# cat /var/www/html/sms/sms.php
<?php
include "smsMWM.php";
$objeto=new SmsGateway('mercadowispmexico@gmail.com','[REDACTED]');
$deviceID = $_GET['idMwm'];
$numCelular = $_GET['numCelular'];
$mensajeTexto = $_GET['mjeTexto'];
$result=$objeto->sendMessageToNumber($_GET['numCelular'], $_GET['mjeTexto'], $deviceID);
echo json_encode($result);
?>root@MWM-ADMIN-OFICINA:~# █
```

```
tool fetch keep-result=no
url="http://172.16.151.250/sms/sms.php?idMwm=[REDACTED]&
numCelular=6681055479&mjeTexto=[Device.Name]%20s
ervicio%20[Probe.Name]%20esta%20[Service.Status]"
```

The screenshot shows a configuration window titled "SMS-API-SERVER-MWM - Notification". It has three tabs: "General", "Schedule", and "Advanced". The "General" tab is active. The "Name" field contains "SMS-API-SERVER-MWM". The "Enabled" checkbox is checked. The "Type" dropdown is set to "execute on server". Below this is an "Insert Variable" button. The main text area contains the following command:

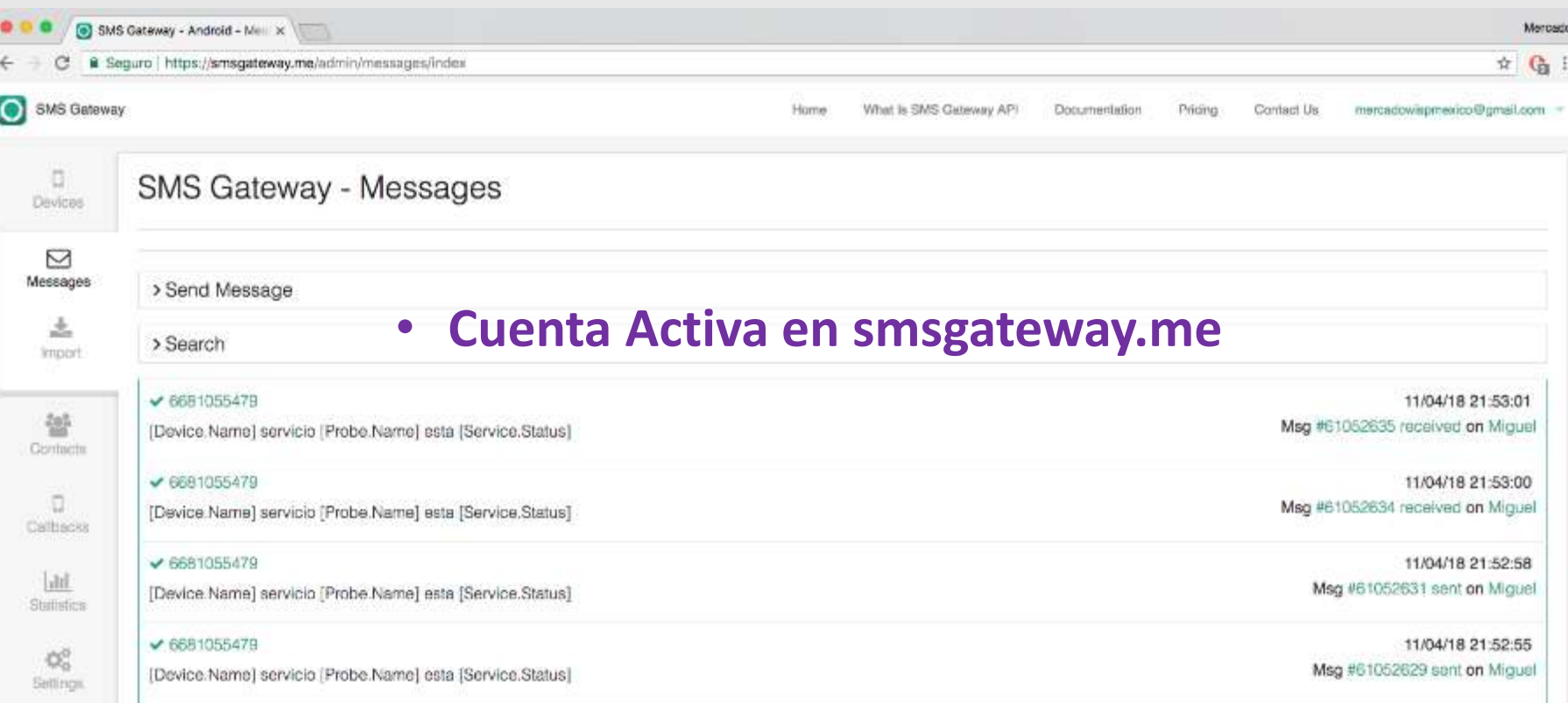
```
tool fetch keep-result=no
url="http://172.16.151.250/sms/sms.php?
idMwm=[REDACTED]&numCelular=6681055479&mjeTexto=[
Device.Name]%20servicio%20[Probe.Name]%20esta
%20[Service.Status]"
```

On the right side of the window, there are buttons for "Ok", "Cancel", "Apply", "Notes", "Copy", "Remove", and "Test". At the bottom left, the text "Command:" is visible.

- Notificacion en The Dude



☐ Notificación por SMS Gateway API.



• Cuenta Activa en msggateway.me

❖ Con The Dude y esta opcion seria posible realizar envios masivos SMS a nuestros clientes!!!

• <https://msggateway.me/sms-api-documentation/authentication>

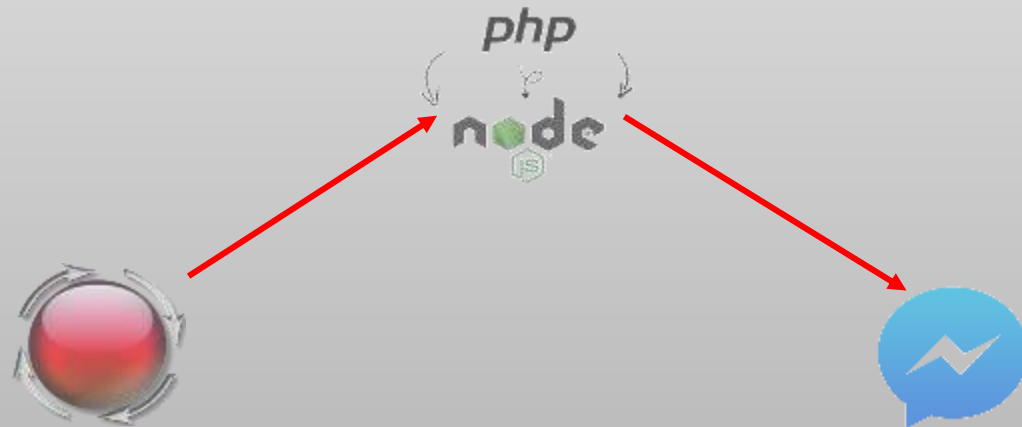


SMS recibido en android



☐ Notificación por Facebook Messenger.

- ❖ The Dude puede hacer uso de API's para envío de notificaciones, en este ejemplo.
- ❖ Se requiere de un servidor web con soporte php/Node.js y facebook-chat-api para realizarlo.
- ❖ Es necesario registrar una cuenta en FaceBook (Cuenta normal) y tener el Facebook ID del usuario al que le enviara la notificación
- ❖ Cualquiera cuenta de FaceBook puede notificar a si misma o a otra NO utiliza Bots o Webhook!!!





Notificaciones en The Dude

☐ Notificación por Facebook Messenger.

- Autenticación con cuenta facebook en interfaz grafica

❖ Configuración en el Servidor Node.js

- Autenticación con cuenta facebook en servidor Node.js

```
[root@MWM-ADMIN-OFICINA:/home/msmfb# ls
node_modules package-lock.json package.json server.js sesionP.json sessionfb.js
[root@MWM-ADMIN-OFICINA:/home/msmfb# cat sessionfb.js
const fs = require("fs");
const login = require("facebook-chat-api");

var credentials = {email: "monitormercadowispmexico@gmail.com", password: "[REDACTED]"};

login(credentials, (err, api) => {
  if(err) return console.error(err);

  fs.writeFileSync('sesionP.json', JSON.stringify(api.getState()));
});root@MWM-ADMIN-OFICINA:/home/msmfb# █
```



- <http://172.16.151.250:8183/initsessionfb?mail=monitormercadowispmexico@gmail.com?pass=supassword>



Notificaciones en The Dude

Notificacion por Facebook Messenger.

The screenshot shows the configuration window for a notification named "FACEBOOK-NODEJS-MWM". The "General" tab is selected. The "Name" field contains "FACEBOOK-NODEJS-MWM". The "Enabled" checkbox is checked. The "Type" is set to "execute on server". The "Code" field contains the following curl command:

```
tool fetch keep-result=no
url="http://172.16.151.250:8183/sendmsmf?
idfb=612673399&mge=[Device.Name]%20servicio
%20[Probe.Name]%20esta
%20[Service.Status]%20[Time]"
```

A red arrow points from the "Code" field to the URL in the browser screenshot below.

Configuracion en The Dude

Interfaz Grafica de Servidor

The screenshot shows a web browser window with the URL `172.16.151.250:8183/sendmsmf`. The page title is "Enviar mensaje a messenger facebook". There is a form with the following fields:

- Id Facebook: 612673399
- Mensaje a enviar: Le Informamos que tene

There is an "Enviar mensaje" button. The MERCADOWISPMEXICO logo is visible at the bottom.

<http://172.16.151.250:8183/sendmsmf?idfb=612673399&mge=Le%20informamos%20que%20tene...>

```
tool fetch keep-result=no
url="http://172.16.151.250:8183/sendmsmf?idfb=612673399&mge=[Device.Name]%20servicio%20[Probe.Name]%20esta%20[Service.Status]%20[Time]"
```

Notificaciones en The Dude

☐ Notificación por Facebook Messenger.



172.16.151.250:8183/sendmsm x

172.16.151.250:8183/sendmsmfb?idfb=61267

Enviando mensaje...

- **Interfaz Grafica de Servidor**

MERCADOWISPMEXICO

Mensaje en facebook-messenger

(1) Facebook x

Seguro | https://www.facebook.com

Busca

Miguel Inicio

Miguel Felix

Realizar publicación Álbum de fotos/videos

¿Qué estás pensando, Miguel?

Reciente (99+) Solicitudes de mensajes Nuevo grupo · Nuevo mensaje

Miguel Garci (1) 20:06
Le Informamos que tenemos una falla en el servicio y al...

94% 8:08 p. m.

Miguel Ahora

Invitar a Messenger Miguel recibirá un enlace para instalar

Miguel Garci Son amigos en Facebook

8:06 P. M.

Le Informamos que tenemos una falla en el servicio y al no usar The Dude no nos enteramos, le informaremos cuando reestablezca Gracias!!!



Notificaciones en The Dude

Notificación por Facebook Messenger.



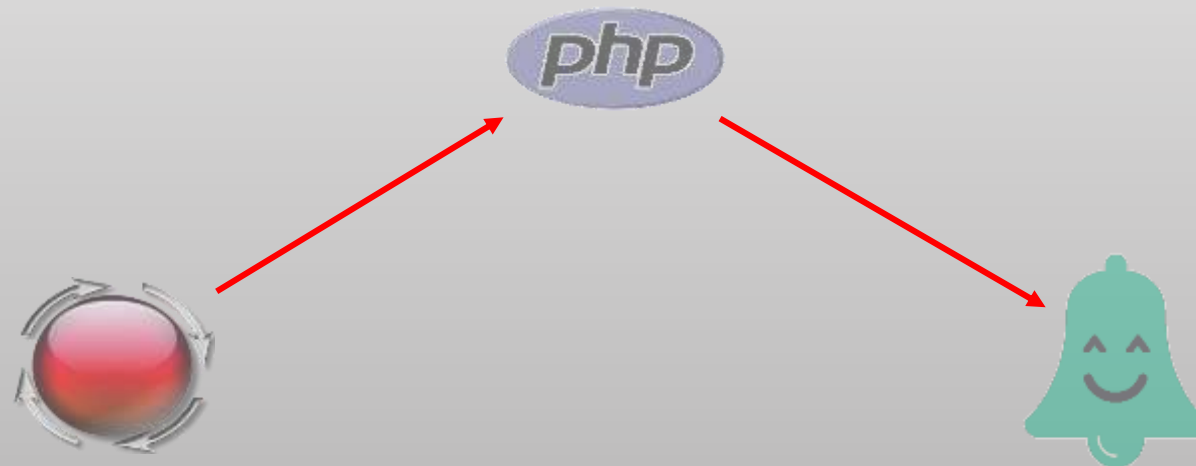
Mensaje en facebook-messenger



Notificaciones en The Dude

☐ Notificación Push .

❖ **Introducción:** Pushetta está hecho para que sea sencillo enviar comunicaciones de difusión a grupos de suscriptores. Funciona de una manera realmente simple: como editor. Usted crea un grupo temático, cada usuario que se suscribe a este grupo recibirá una notificación cada vez que presione un mensaje. Se puede comparar con **SMS**.



❖ *DEMOSTRACION!!!*





Notificaciones en The Dude

Notificación Push .

- 1. Descargar Aplicación pushetta para android o iOS**
- 2. Suscribirse al canal MUM-MX-2018**



Notificaciones en The Dude

☐ Notificacion Push .



PUSHETTA-MUM-MX-2018 - Notification

General | Schedule | Advanced

Name: PUSHETTA-MUM-MX-2018

Enabled

Type: execute on server

▼ Insert Variable

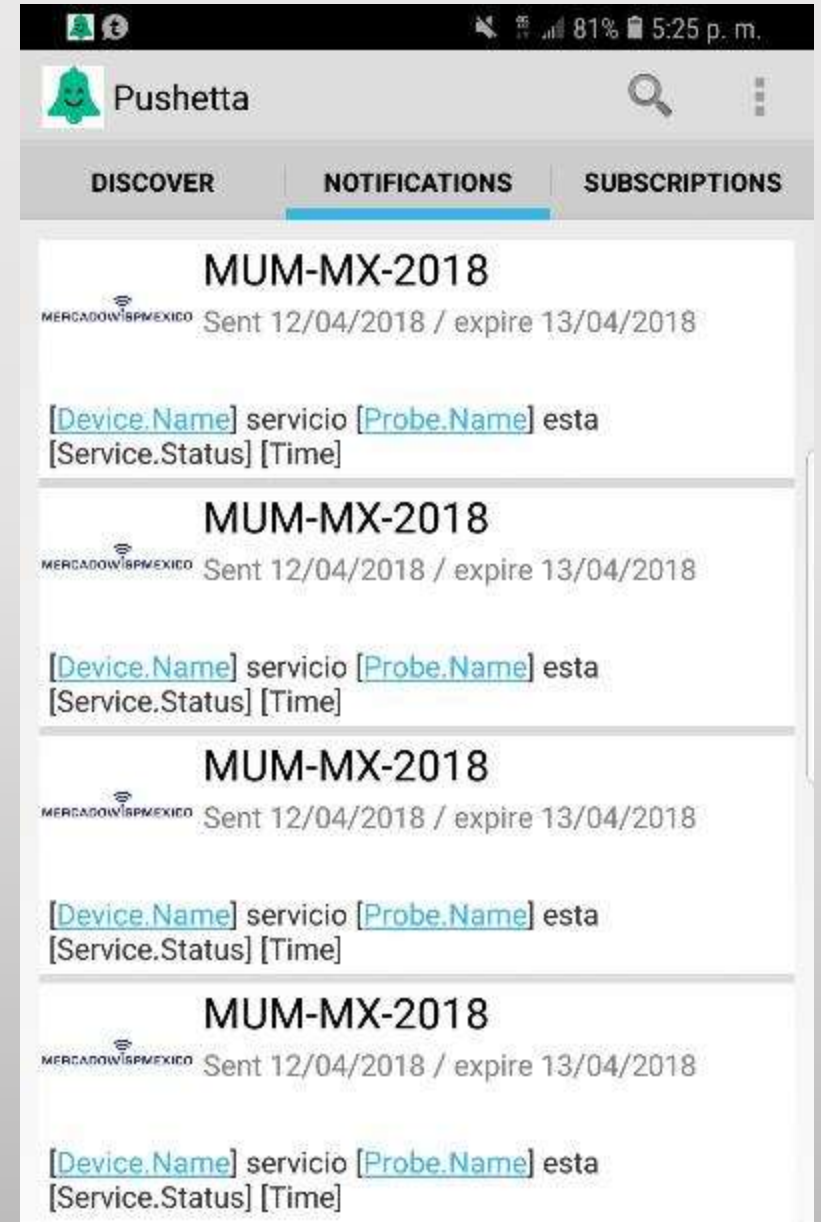
```
tool fetch keep-result=no
url="http://172.16.151.250/push/MUM-
MX-2018.php?mensaje=[Device.Name]%20servicio
%20[Probe.Name]%20esta
%20[Service.Status]%20[Time]"
```

Ok
Cancel
Apply
Notes
Copy
Remove
Test

- **Notificacion en The Dude**

```
tool fetch keep-result=no
url="http://172.16.151.250/push/MUM-MX-
2018.php?mensaje=[Device.Name]%20servicio%20[Probe.Na
me]%20esta%20[Service.Status]%20[Time]"
```

Notificacion en Movil





Notificaciones en The Dude

☐ Notificacion Push .

The screenshot shows the Pushetta web interface. At the top, there's a navigation bar with icons for Dashboard, Channels, Search, API, Docs, and Downloads. Below this, a green banner displays the channel name 'MUM-MX-2018'. A 'Delete Channel' button is visible on the right. The main content area is divided into several sections:

- Advertise URL:** A text field containing the URL `http://www.pushetta.com/subs/dispatch/MUM-MX-2018/`.
- MUM-MX-2018 Channel Settings:** A section with a header 'MUM-MX-2018' and a sub-header 'NOTIFICACIONES PUSH LABORATORIO MUM MEXICO 2018'. It includes a checkbox for 'Hidden (doesn't appear in search results)' which is checked, and a checkbox for 'Public channel (everyone can subscribe it)' which is unchecked.
- Push a message:** A form with a 'Message text' label and a text input field. Below the input is a green 'Send' button.
- Last messages sent:** A table showing the last two messages sent, both dated '12 Apr' and 'Expire on Apr 14'. The first message is '[Device.Name] servicio [Probe.Name] esta [Service.Status] [Time]'.
- Last subscribers:** A table listing subscribers with their device names and the time they subscribed. The first entry is 'iPhone de Jesus' on 'March 24, 2018, 4:20 p.m.'.

- Configuracion de canal en pushetta.com

- Api php en servidor

```
k?php
$mensaje = $_GET['mensaje'];
$channel = 'MUM-MX-2018';
$apikey = '7ec7b7affef593678b3e02d659a336c0e4f6824a';
$datetime = new DateTime('tomorrow');
$datetime->modify('+1 day');
$expire = $datetime->format('Y-m-d'); // In YYYY-MM-DD format

$data = array(
    'body' => $mensaje,
    'message_type' => 'text/plain',
    'expire' => $expire
);

$ch = curl_init("http://api.pushetta.com/api/pushes/$channel/");
curl_setopt($ch, CURLOPT_POST, true);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
curl_setopt($ch, CURLOPT_POSTFIELDS, json_encode($data));
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type: application/json',
"Authorization: Token $apikey"));

$response = json_decode(curl_exec($ch));
?>
```

Notificaciones en The Dude

☐ Notificación con Mercado Wisp Mexico .

❖ **Mercado Wisp Mexico** usa su propia plataforma y la api en conjunto con **The Dude** para realizar notifiacion por caida de servicio y mensajes masivos a clientes.



172.16.151.250/sms-web/

MERCADOWISPMEXICO

Dirección
Calle: Fuente de Cristal 2435 Fracc
Fuentes del Bosque CP 81229
Los Mochis Sinaloa, México.

Celular
+52 1 668 105 5479

Correo de soporte
soporte@mercadowispmexico.com

Envío de mensaje de texto

MERCADOWISPMEXICO

INTRODUCE UN NÚMERO DE CELULAR (DESTINATARIO):

6681055479,6681243036,6688265988

MENSAJE DE TEXTO *

Estimado usuario, le informamos que tenemos un inconveniente por falla de servicio de internet en la zona, su servicio regresara en breve disculpe la molestia atte **MWM-Internet** gracias.

¡ENVIAR SMS!



Notificaciones en The Dude

Notificación con Mercado Wisp Mexico

Wisp Admin Control

Miguel A. Garcia

Clientes

Agregar cliente

Mostrar 10 Clientes

Buscar cliente

| Nombre | A. Paterno | A. Materno | Celular | Dia de cobro | Sector | Acción |
|--------------|------------|------------|------------|--------------|-----------------|--|
| MIGUEL ANGEL | FELIX | GARCIA | 6681164156 | 1 | sector presidio | Enviar msn Ver Modificar Eliminar Enviar msn personalizado |

Mostrando del 1 a 1 (Total: 1 clientes)

- Plataforma Mercado Wisp Mexico

Wisp Admin Control

Mensaje

Mensaje

*Mensaje

Le recordamos que el día 1 de cada mes es su día de pago MWM INTERNET, si ya realizo su pago favor de ignorar el mensaje gracias.

Modificar Eliminar

The Dude

- **Mercado Wisp Mexico.** Hace las siguientes observaciones de acuerdo a la practica y experiencia con The Dude.
- ❖ **Hacer un uso adecuado de The Dude monitoreando solo los servicios que realmente se requieran o justifiquen asi evitamos trafico excedente en la red.**
- ❖ **Utililizar versiones de SNMP que ofrezcan mayor seguridad cuidando los recursos de hardware en nuestra red (implementar medidas extras para asegurar la red, como ejemplo firewall o tuneles de gestion etc). Hacer uso de ros_command para el caso de Mikrotik.**

The Dude

- ❖ Hacer uso de Agents para llegar a otras redes y Parents para evitar notificaciones innecesarias con The Dude.
- ❖ Manejar diferentes tipos de notificaciones diferenciando criticidad de la falla, tipo de servicio, area de la topologia de red etc.
- ❖ Realizar respaldos automaticos de base de datos, manejar el almacenamiento en una unidad externa o bien en otra instancia fuera de nuestra red (Routers CHR).

Conclusiones:

❖ Una central de monitoreo con The Dude es **La Secretaria que todos Quisieran Tener!!**

1. Es muy bonita!!!-----(Su Interfaz)

2. Puedes hacer con ella casi todo lo que quieras!!!-----(Flexible y Personalizable)

3. Es puntual y eficiente!!!-----(24/7)

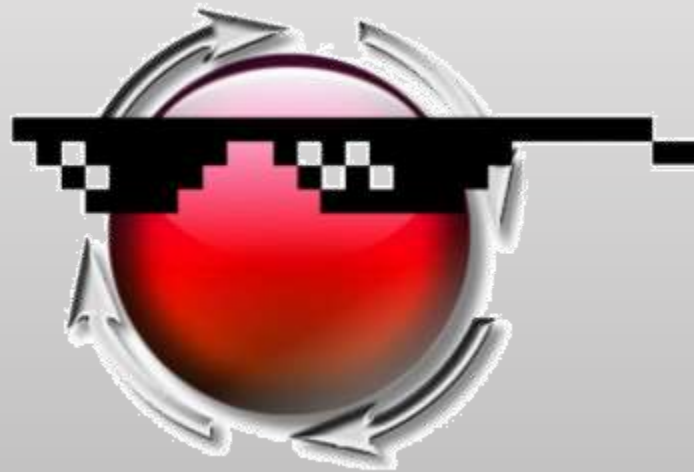
4. Toma todos tus recados!!!-----(Syslog)

5. Te los entrega en tiempo y forma!!!-----(Notifica)

Y Lo Mejor De Todo!!!

The Dude

NO esta en tu nomina!!!!



**MUM – México
2018**



***POR SU ATENCION
MUCHAS GRACIAS!!!***


MERCADOWISPMEXICO

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