

### Mani Raissdana

MikroTik Certified Trainer CTO & Co. Founder





Being in IT technology business roughly around 14 years Support & instruct Engineers more than 8 years all over the globe



Wireless, Routing, QoS, Firewall, The Dude

### Mani Raissdana

- MikroTik Certified Trainers
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# Training Schedule

```
http://www.mits-co.com/training_mikrotik%20
http://www.mits-co.com/training_ubiquiti
http://www.mits-co.com/training_elastix
```

### Table of contents

### Dude

- What is Dude???
- What it does???
- How it works???
- How you should work with????
- Monitoring
- Notification

iGenTik

Interactive GSM/Email notification system



### What is Dude

- MikroTik free Monitoring application
- Has 2 parts:
- 1. Client application: (Windows, Mac, Linux)
- 2. Server package: (RoS package) only for:
- MikroTik CCR Series
- RouterOS X86
- RouterOS CHR

RouterOS Version should be 6.34rc13 or higher to be able to use Dude

### What it Does

- Scans (Discovers) your Network in layer 2
- Monitors availability of your network
- Keeps watching all your layer 3 devices
- Monitors all your links
- Supports layer 3 probes
- Supports SNMP
- Has direct access to your RouterOS (with Winbox)

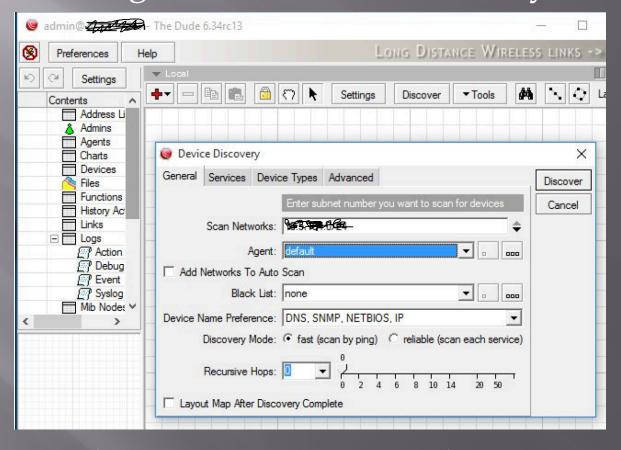
Here, we're talking about Dude V6, Which has some fundamental differences with legacy versions

### How it works

After successful Installation, login page comes up

After Successful Login, Automatic Discovery feature will

jump up,



 You may like to discover your Network automatically or add everything manually

### How it works

If you are working with legacy versions (V3 or V4), you are still be able to import your old database here

```
/dude import-db backup-file=(file_name_path)
```

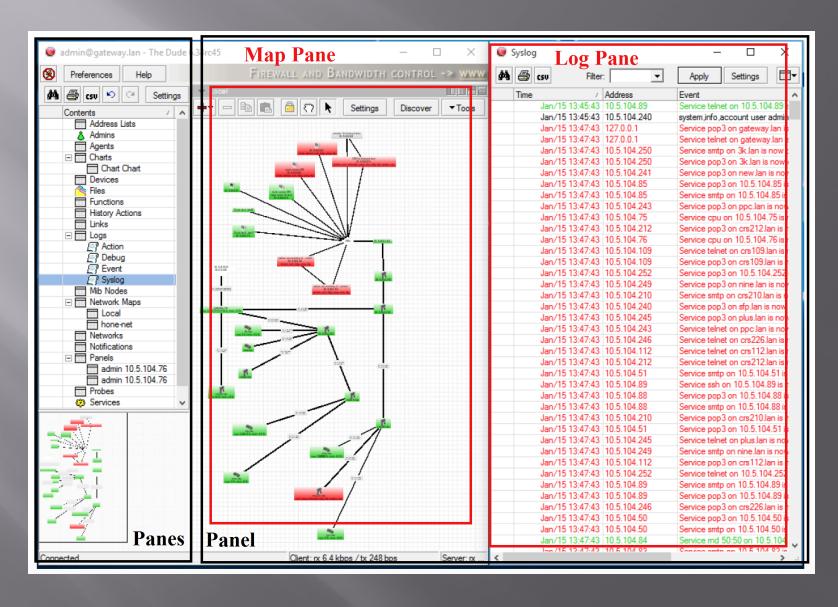
Or maybe you'd like to change the path of database

```
/dude set data-directory=(new_db_path)
```

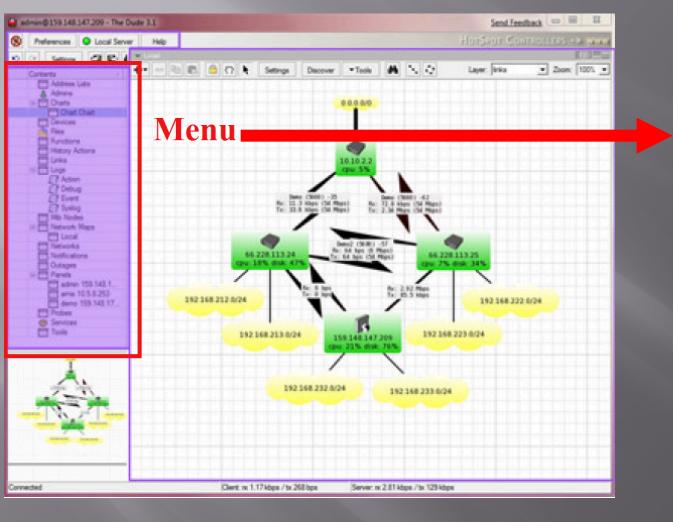
### Change path procedure:

- Disable the Server
- 2. Move existing directory
- 3. Change the path of directory
- 4. Enable the Server

### Interface



### Menu

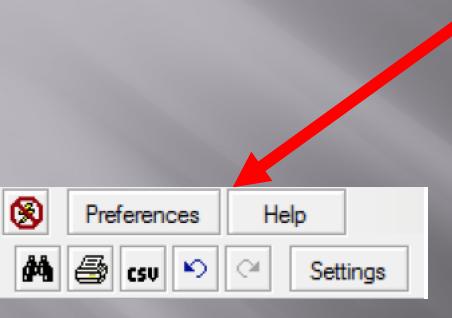


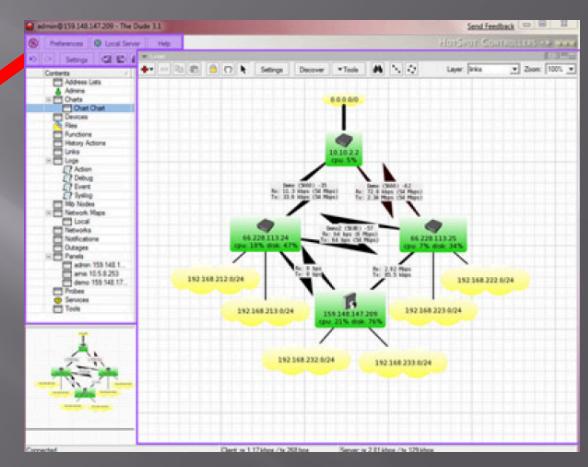
Contents
Address Lists
Admins Admins
☐ Charts
Chart Chart
Devices
Riles
Functions
History Actions
Links
□
Action
Debug
Event
Syslog
Mib Nodes
□ ■ Network Maps
Local
Networks
Notifications
Outages
□ □ Panels □ admin 159.148.1
amis 10.5.8.253
demo 159.148.17
Probes
Services
Tools
122.5

### Menu

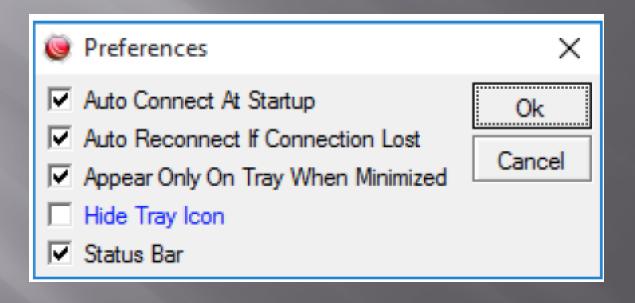
- Address lists: Lists of IP addresses to be used in Blocklist and other places
- Admins: Users who can access this particular Dude server
- Charts: Configure graphs based on any data source in the map
- Devices: List of all the devices drawn on any of the network maps
- Files: List of the files uploaded to the server, like images for network map backgrounds and sounds
- **Functions:** Functions that can be used, includes scripts and advanced queries
- History Actions: History of tasks performed by the admin, like adding or removing devices. Admin log.
- Links: List of all links in all maps.
- Logs: Logs of device statuses. Dude also includes a Syslog server, and can receive Logs from other devices.
- MIB nodes: Information about MIBs
- Network maps: All maps
- Networks: List of all network segments places on the map
- Notifications: Different ways to alert the admin of
- Panels: Allows to configure separate dude window entities for use on multiple monitors or otherwise
- Probes: Probes are responsible for polling specific services on the defices
- Services: Lists the currently monitored services on all devices
- Tools: Configures the tools that can be run on each device (ie. connect with winbox, telnet, ftp etc.)

Server Settings

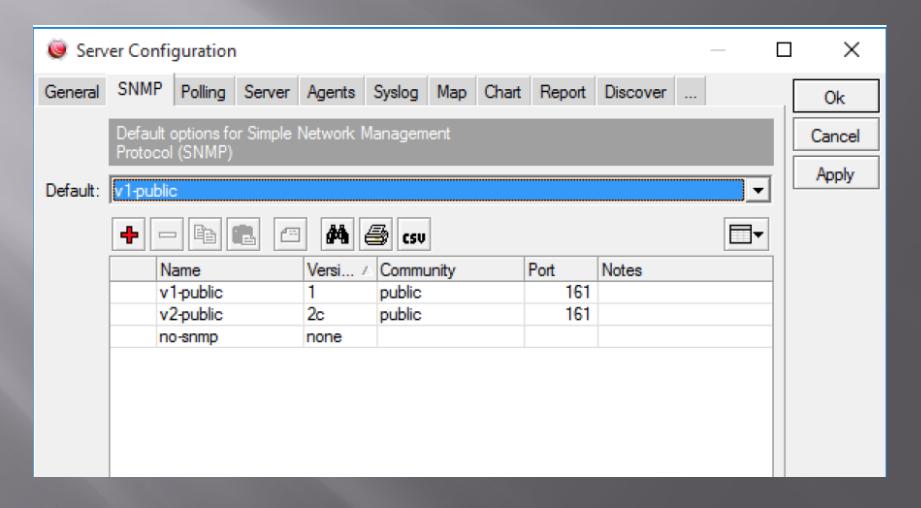




### Preferences



### Server Settings



### **Device Settings**

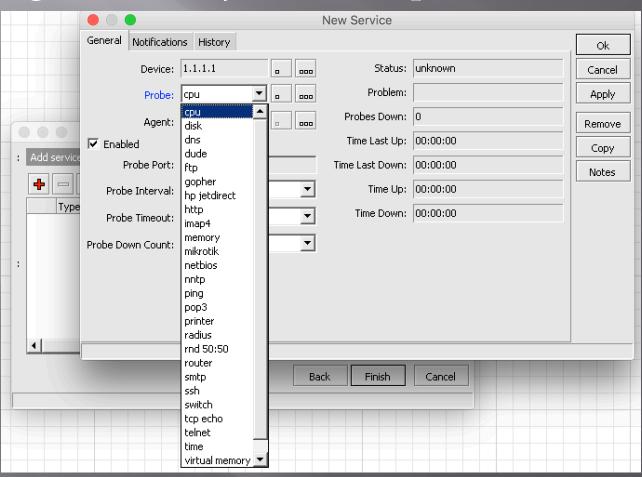
Adding devices is just few steps:

1-Add Device : Enter IP address or DNS name Address: : Login for fast access to device with Telnet/Winbox admin User Name: Password: ☐ Secure Mode Router OS Back Next Cancel

### **Device Settings**

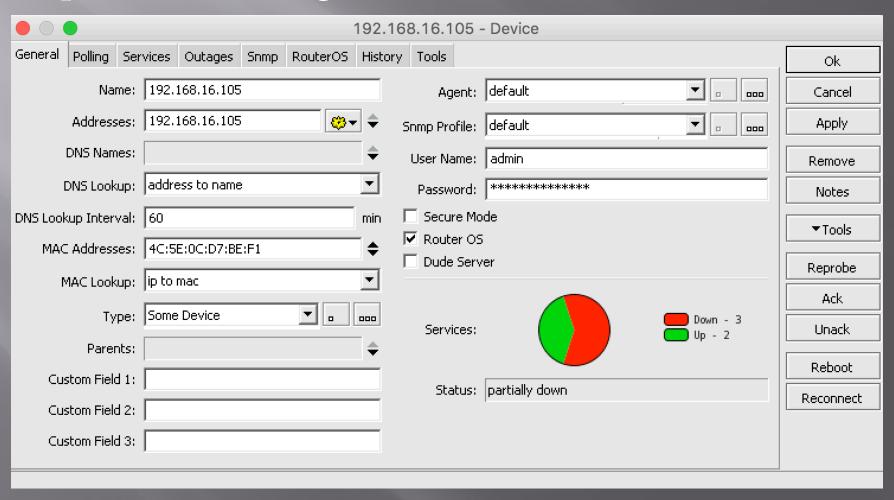
• Adding devices is just few steps:

2-



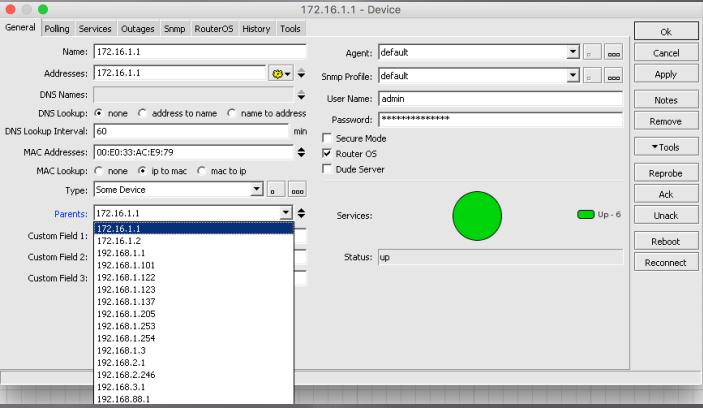
### **Device Settings**

### Important to configure accurate

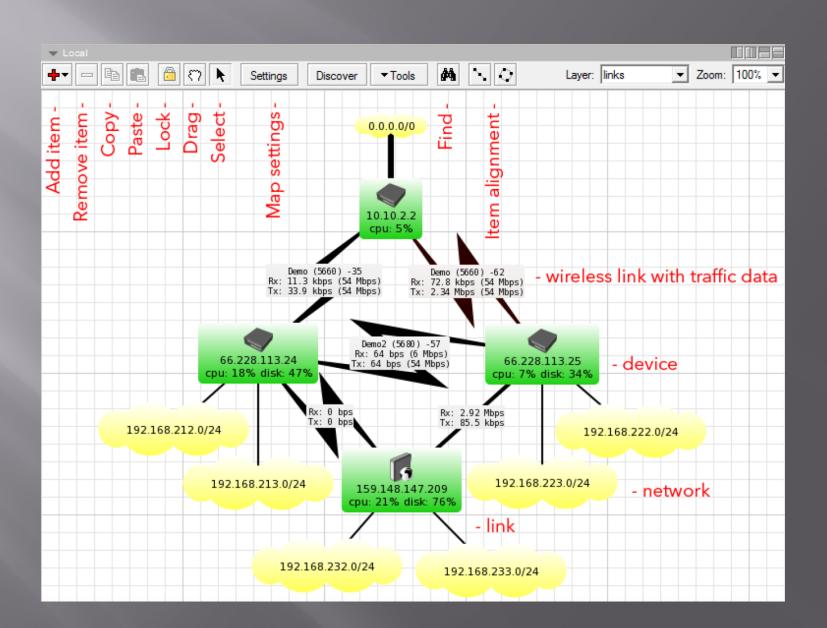


### Maps:

- Map Contains 2 Layers
- 1- Device links
- 2- Device dependencies
- To avoid receiving reports about each device status when a parent device is unreachable, you can make dependency between devices



### Maps:

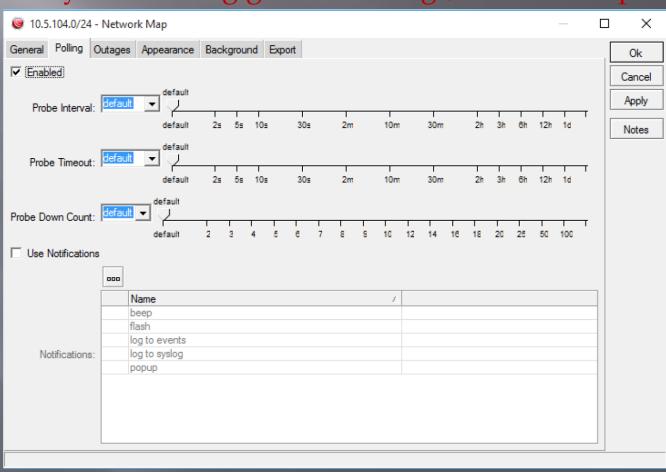


Maps:

Polling: This tab allows you to configure polling times and timeouts specifically for this map.

Map specific settings are always overriding general settings, but device specific

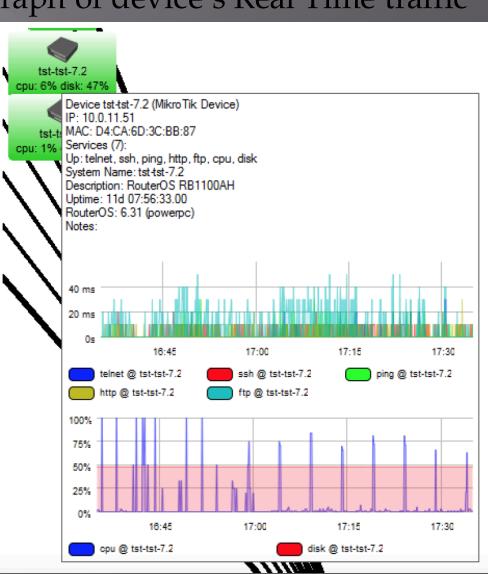
settings take preference.



# How you should work with By The Way!!!!!!

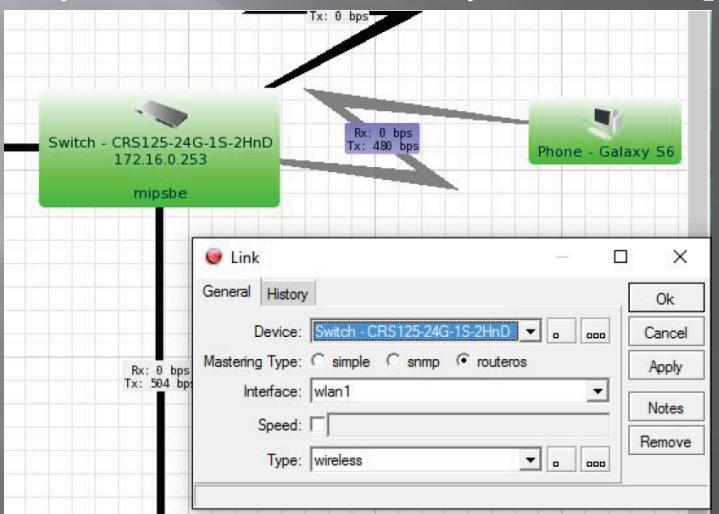
You also can monitor and have a graph of device's Real Time traffic

Interesting!!! Isn't it????? :) :) :)



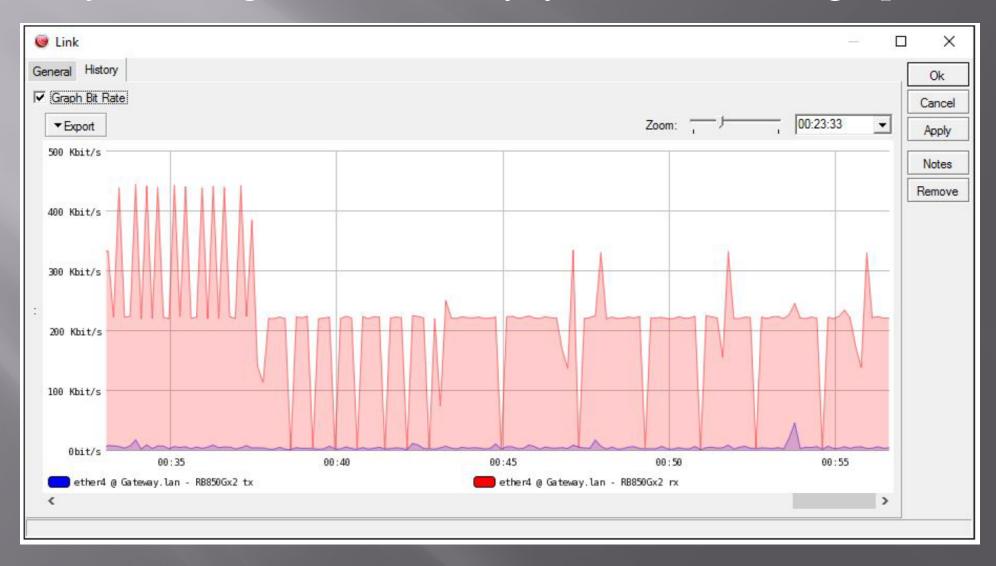
- Links list, shows all your links (different types)
- Also you can add links directly from the Map

Links



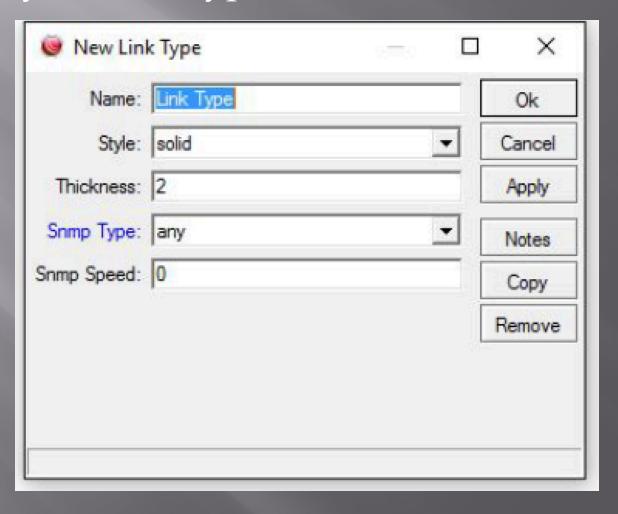
By checking out link history, you can find out graphs

Links



### Links

There are some Link types by default, but also you can add your own type

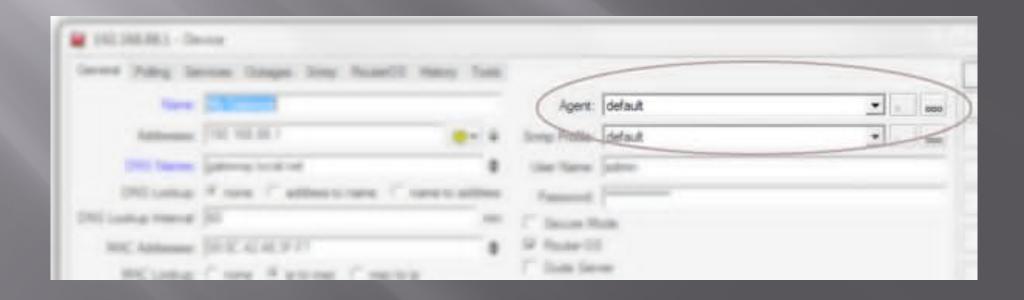


# Monitoring

### Agents



Agents are other Dude servers that can be used as intermediaries for dev monitoring.



### Monitoring

### **Notifications:**

- It's possible to configure any actions that can be taken when a device status changes.
- The predefined Notifications are the following:
- 1-Beep: Makes a beeping from the PC speaker of the server
- 2-Flash: Flashes the Dude taskbar menu
- 3-Log to Events: Saves information to local Event log
- 4-Log to Syslog: Saves information to Syslog
- 5-Popup: Opens a small notification window

## Monitoring

### **Notifications:**

You can also add new Notifications, more types are available

- 1-Email: Sends email, need to specify Server address
- 2-Execute locally: Run command on the local Windows machine (where Dude viewer runs), can pass variables
- 3-Sound: Plays sound. Sound files can be uploaded and chosen here
- 4-Group: Executes a group of actions
- 5-Speak: Uses Windows speech ability to say the message in a computerized voice
- 6-Log: Saves to local Dude Log file
- 7-Syslog: Saves to remote Syslog server. Need to specify Syslog address

### But Something is missing here!!!!!!!

GSM Notification:

Sending text message to notify!!!!!

What????????

# Now, let's talk about



### iGenTik

■ iGenTik is Interactive GSM/Email notification system,

Based on MikroTik platform

with customizable GUI Interface

To notify anything you imagine

### What is iGenTik

iGenTik will be the first of it's kind on a linux system.

Flexible & Robust Monitoring/Notification system

**iGenTik** will be available in 2 format's as Monitoring Server:

iMS (Software only): Interactive Monitoring system

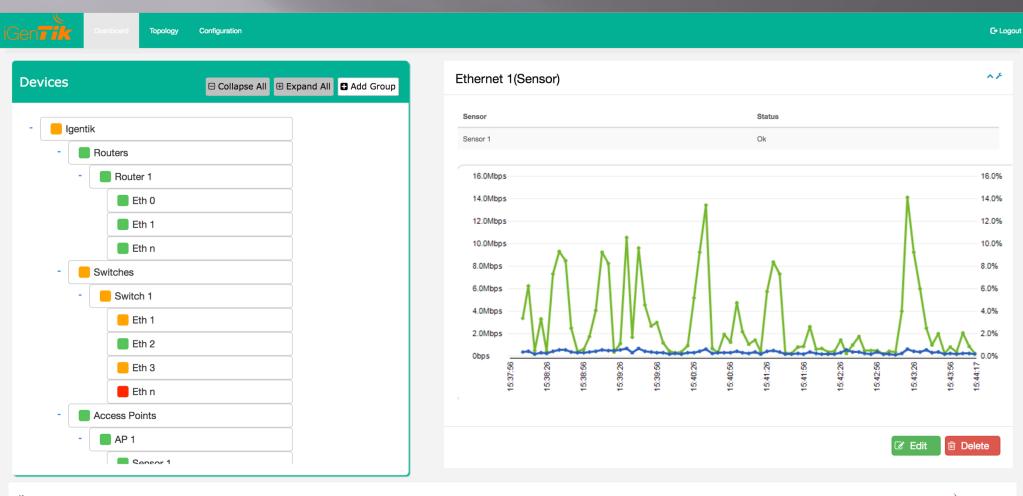
iCMS (Software and Hardware): Interactive Control and Monitoring System

Standard Features: Monitors your network 24/7 365 days Send Alerts via email, SMS

### Freeware limited to 100 Sensors:

Anything which you want to monitor or get notification for, is a Sensor

## iGenTik



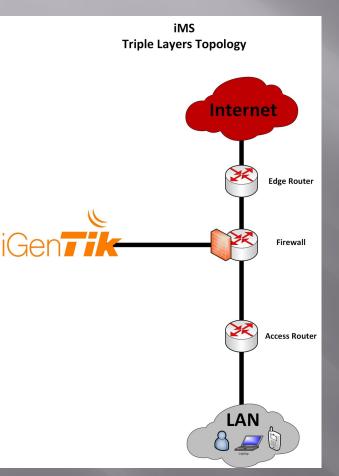


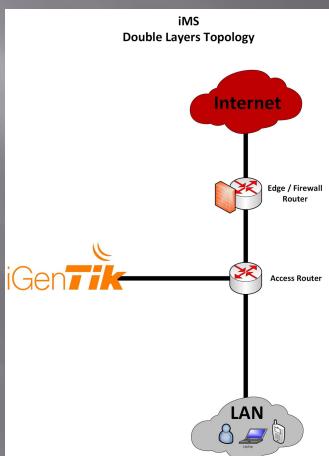
Dependent Partial Fail

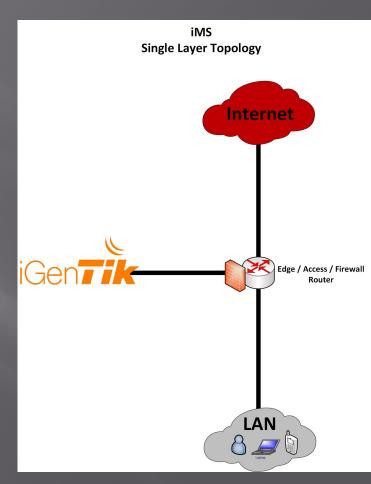
### iMS

- IP status of all layer3 Devices including: Servers, Routers, Switches, End Points (Printers, Computers, Mobile Phones,)
- Public or Private host reachability and availability monitor
- Up Carrier gateway and reachability monitor: to monitor provider's availability and connectivity (with packet lost monitor feature)
- Standard SNMP Monitoring support
- Power and UPS Monitoring (with special features for APC)
- Logs notification: receiving, managing, analyzing, reporting and notifying of all Standard log files (syslog)
- Full categorized Graphing and historical Data Analysis (RRD2 Tool for graphing and archiving)(with SNMP or through API)
- Hierarchical topology support (Master, Slave viewer)
- Live Update
- Traffic Control (weird TX/RX bandwidth Monitor)
- Protocol check (weird UDP/TCP.ICM traffic Monitor)

### iMS

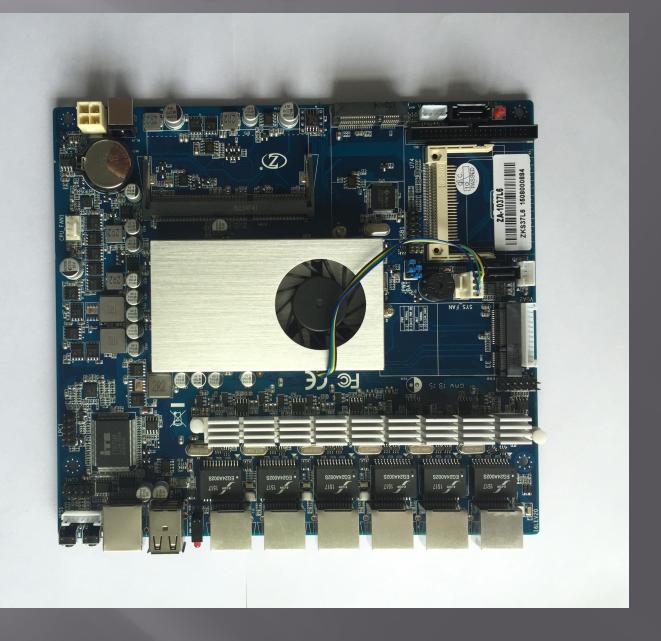




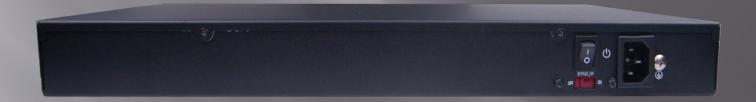


### More than all iMS Features!

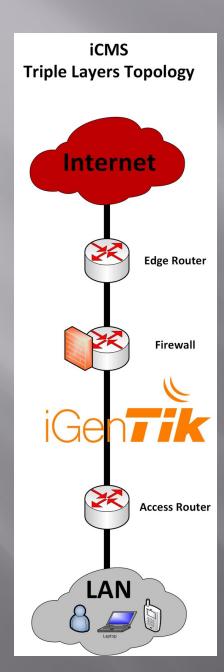
- Dedicated Firewall Hardware with pass throw relays, Battery backup, SMS -GSM Card.
- Built-in battery for the Monitoring Server to have an one hour power Backup.
- Multi Sensors System support (Temperature, humidity monitor and weather Status check)
- Environment Monitoring
- Power Failure detection.
- Pass Throw with Cache, Proxy and Control.
- Sending notification by Text Message
  - Replying Text Messages by receiving any (means you can send commands to it by messages or emails (trusted numbers or Email Addresses) to get reports or to push doing something) including:
  - Sending remote commands to get reports and logs
  - Sending remote commands to any other device in the Network to
  - Disable/Enable Interface
  - Block/Unblock Users
  - Allow/Terminate any connections
  - Turn on/turn off or restart Servers, routers ... via APC Master Switch

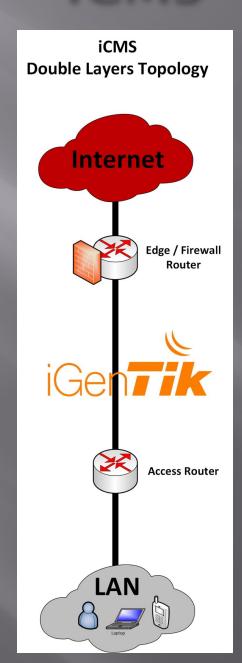


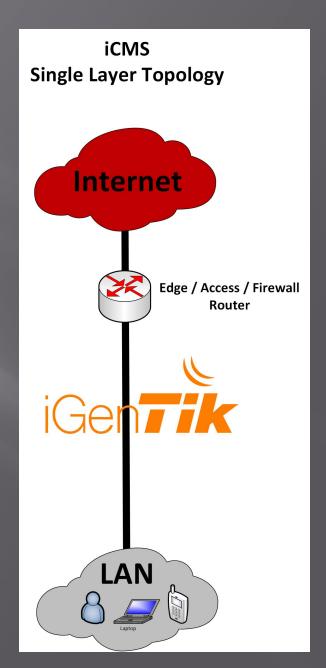












### iGenTik Extra Modules

- □ iGenApp (Android/iOS APP)
- Cloud Master Control
- Remote (DC,AC) (Solar) Power Network monitoring and Control
- Antivirus Management system integration and notification (Kaspersky special features)
- Elastix (Any VOIP Call Center) logs and reports.

# MikroTik Features Only

### Any kind of attack:

- IP/Port Scan
- UDP Flood (i.e. DNS)
- DDOS Attack
- Phishing Attack
- Hijack Attack
- Buffer Attack
- Password Attack
- IP Spoofing
- Sniffing
- Application Layer Attack

### **Wireless Control**

- Providing wrong pass by clients for several times
- Registration table reports (list of connected clients)
- Unwanted wireless login

- VPN Connections: Alert as soon as a VPN connection get connected.
- Tunnel Connections: Alert as soon as a Tunnel connection get connected.
- Queuing Control : Alert if one queue rule gets 50%, 75% or 100% of Bandwidth
- By Adding any route (Static, Dynamic) in routing table.
- Firewall/NAT/Mangle Control: Adding any rules in these tables
- Full Control by Add and
   Removing Rule to any part of
   the Router Dynamically
   depending on Rulesand
   trigger's.

# 4

questions?

# CONTACT DETAILS

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# Good Luck Enjoy MUM