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MikroTik Certified Trainer CTO & Co-Founder of





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

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Dude

TABLE OF CONTENTS

- 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

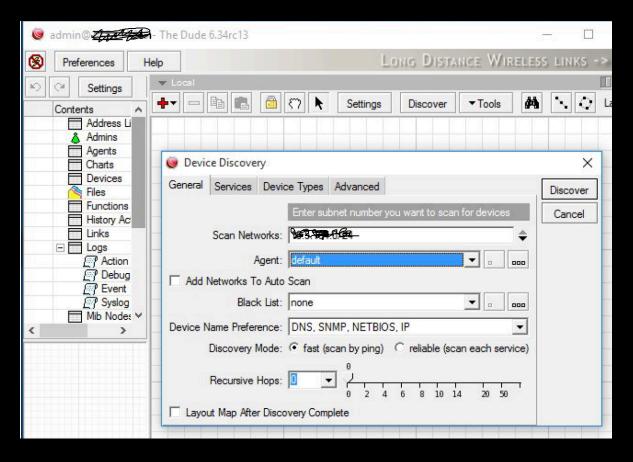
WHAT IT DOES

- 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)
```

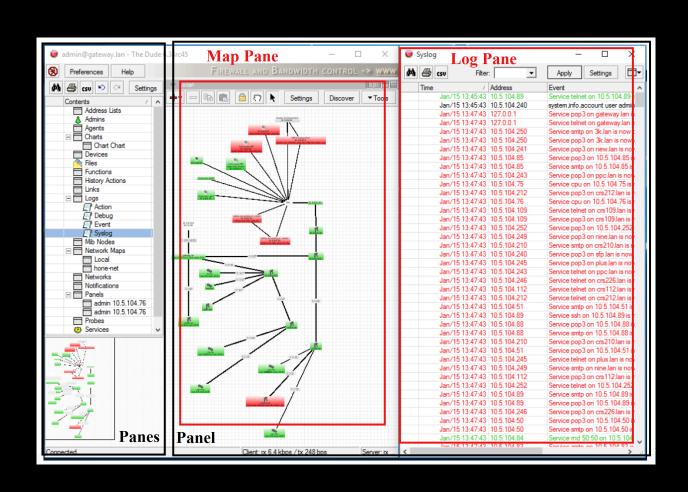
Or maybe you'd like to change the path of database

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

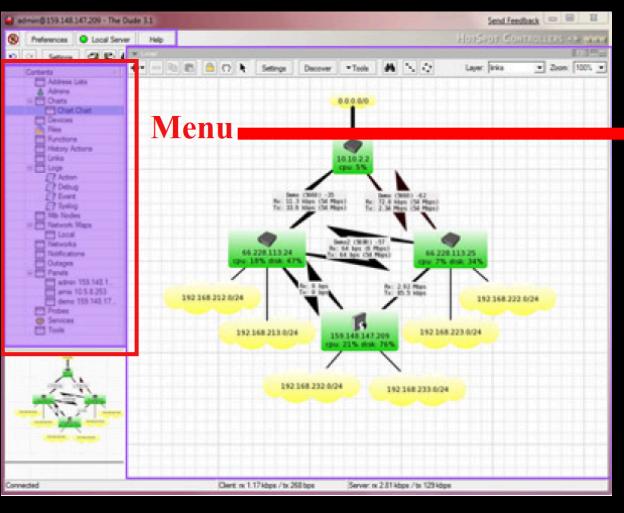
Change path procedure:

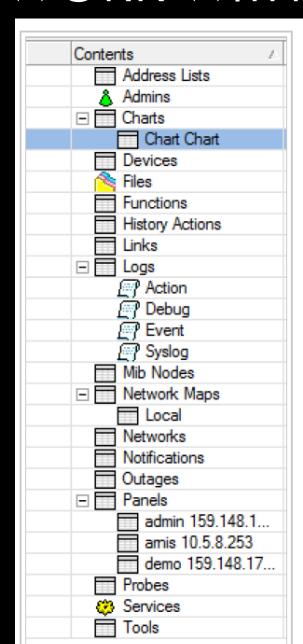
- Disable the Server
- 2. Move existing directory
- 3. Change the path of directory
- 4. Enable the Server

Interface



Menu





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

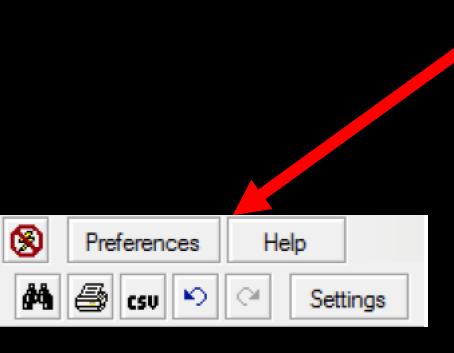
Notifications: Different ways to alert the admin of

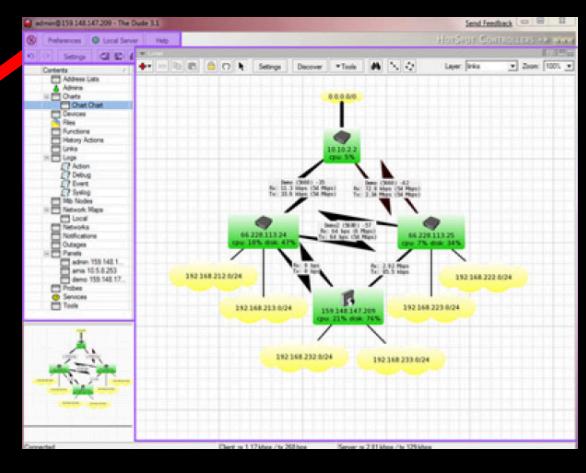
Panels: Allows to configure separate dude window entities for use on multiple monitors or otherwise

Probes: Probes are responsible for polling specific services on the defices

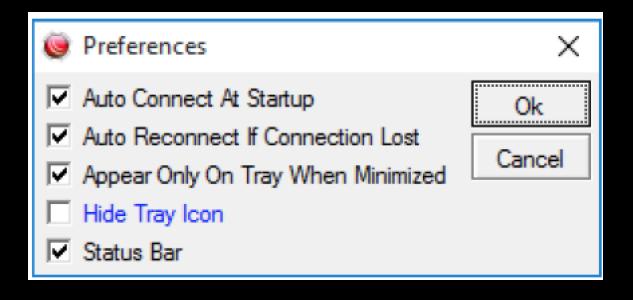
Services: Lists the currently monitored services on all devices

Server Settings

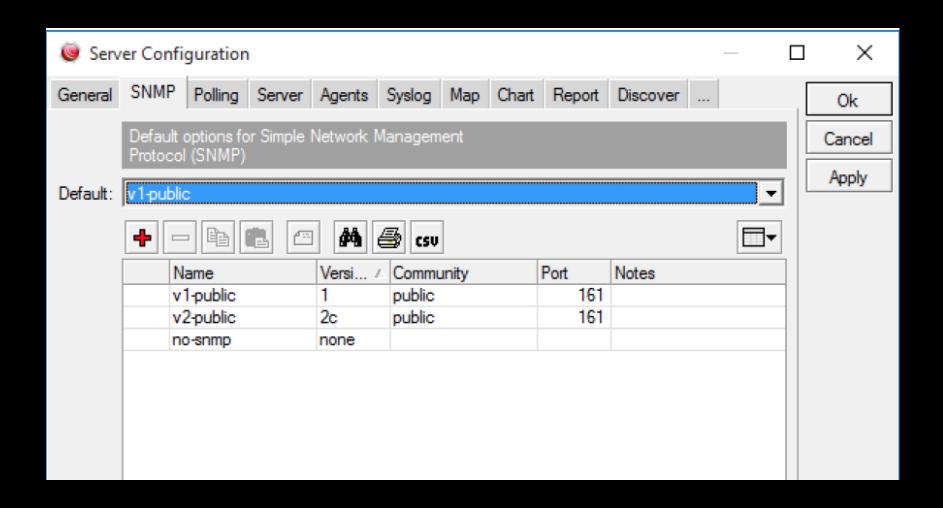




Preferences



Server Settings



Device Settings

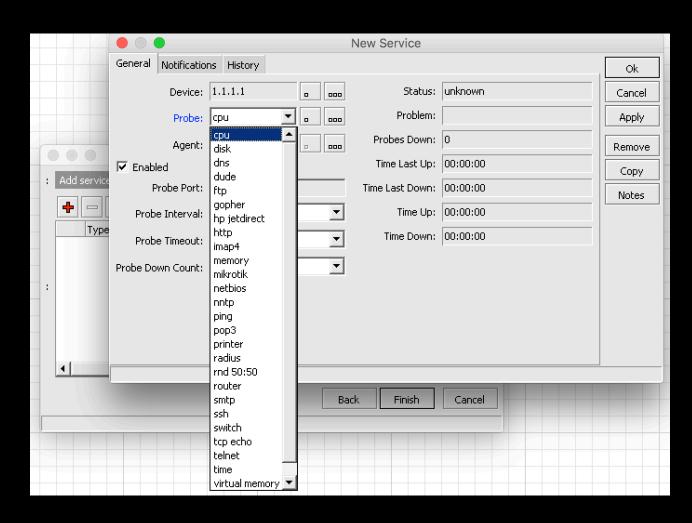
Adding devices is just few steps:

	Add Device
:	Enter IP address or DNS name
Address:	
:	Login for fast access to device with Telnet/Winbox
User Name:	admin
Password:	
Secure M	lode
Router C	95
	Back Next Cancel

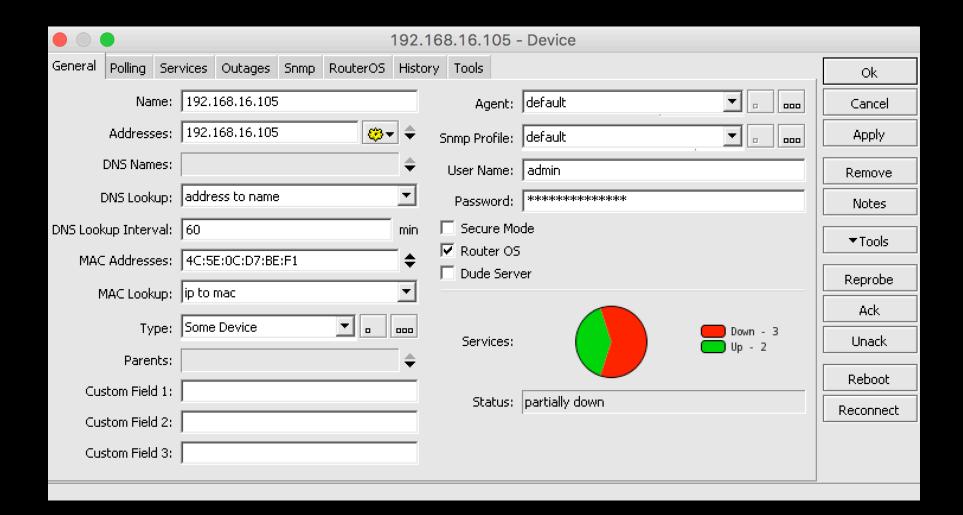
Device Settings

Adding devices is just few steps:

2-



Device Settings



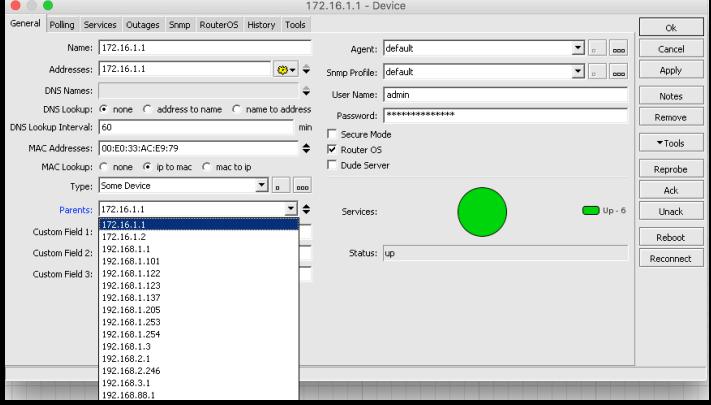
Maps:

HOW TO WORK WITH

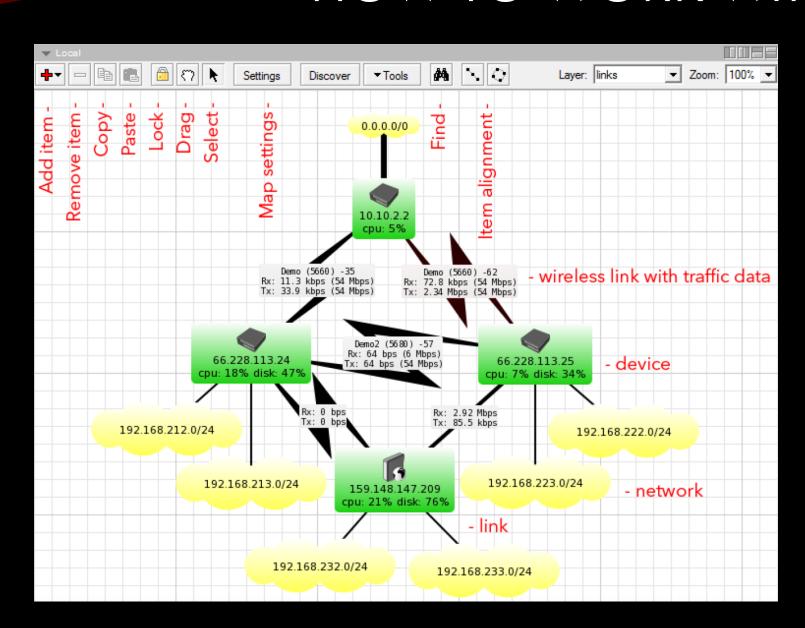
- Map Contains 2 Layers
 - 1- Device links
 - 2- Device dependencies

 To avoid receiving reports about each device status when a parent device is unreachable, you can make dependency

between devices



Maps:

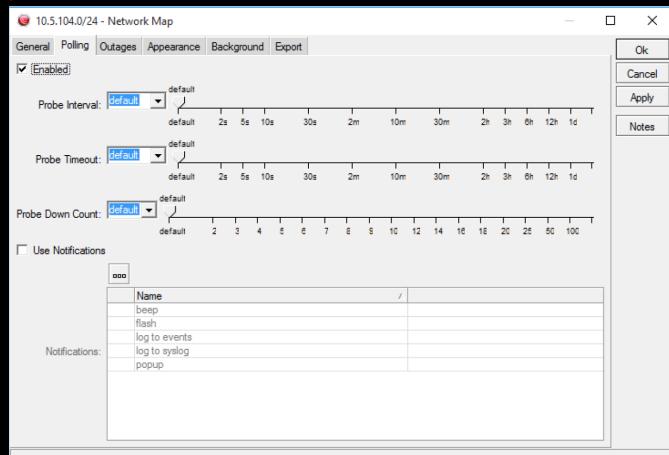


Maps:

HOW TO WORK WITH

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.



By The Way!!!!!!!

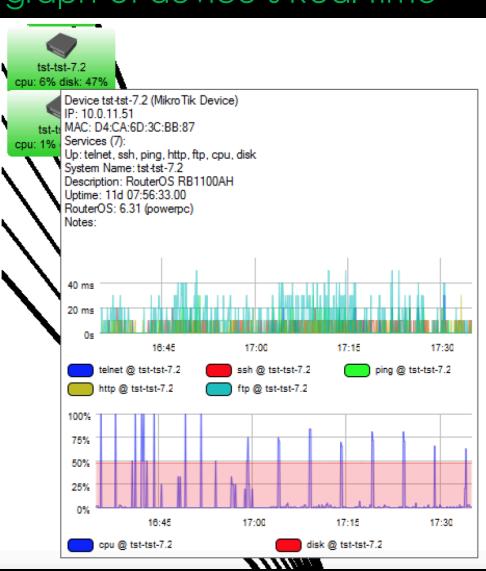
HOW TO WORK WITH

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

traffic

Interesting!!! Isn't it????

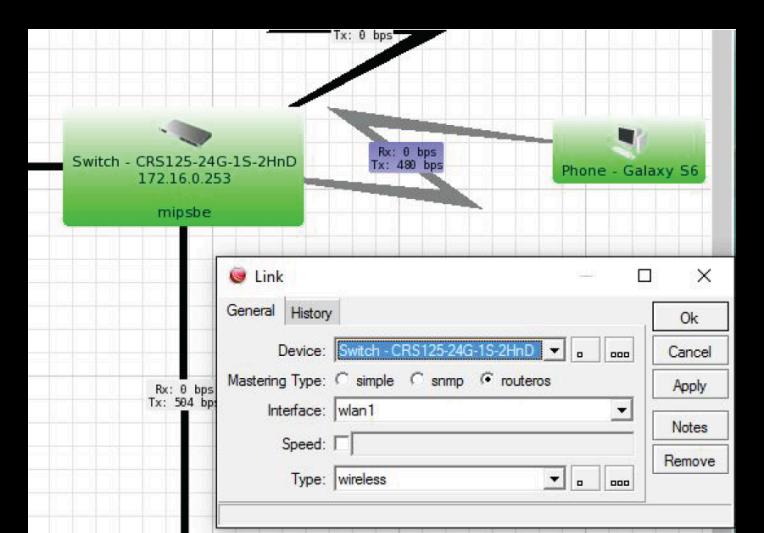
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Links

HOW TO WORK WITH

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



Links

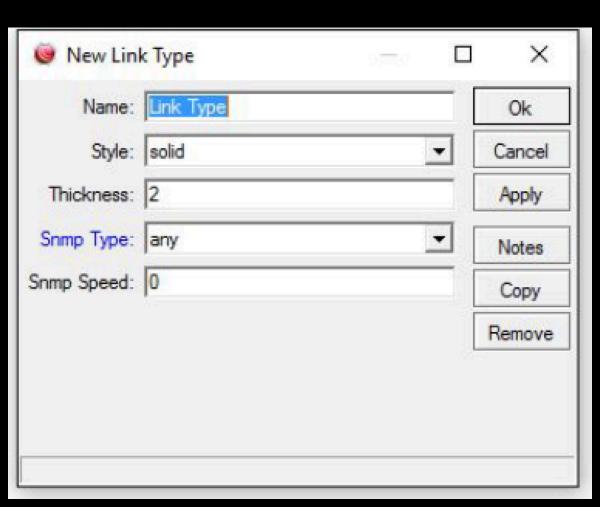
By checking out link history, you can find out graphs



Links

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

own type

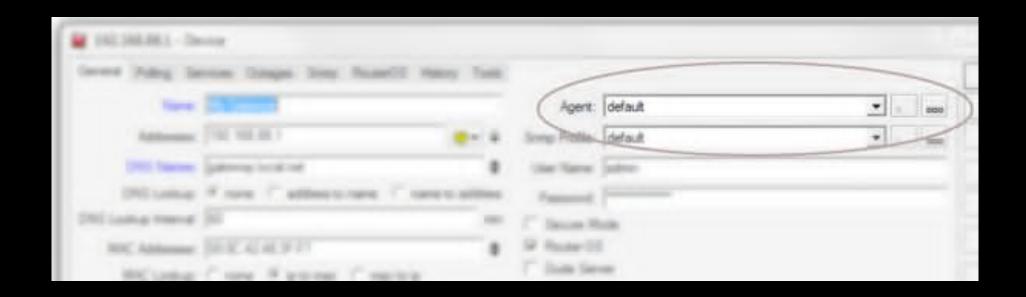


Agents

MONITORING



Agents are other Dude servers that can be used as intermediaries to device 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 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

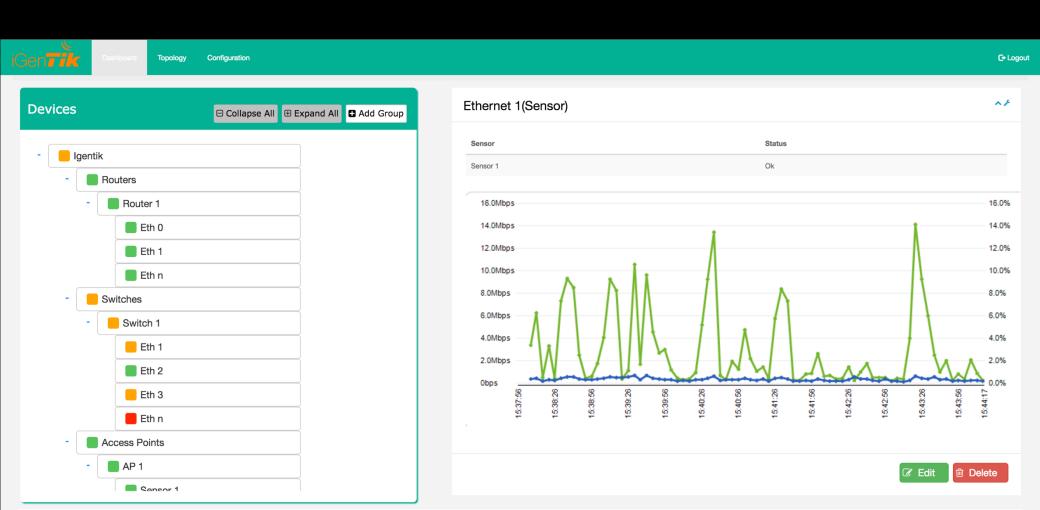
Standard Features:

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 categorised Graphing and historical Data Analysis (RRD 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)

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.



iCMS 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 Text Message (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

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)

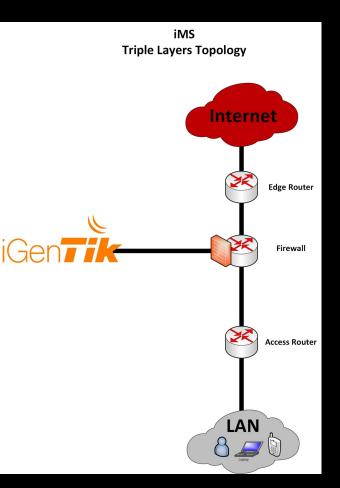
- VPN Connections: Alert as soon as a VPN connection get connected.
- Tunnel Connections: Alert as soon as a Tunnel connection get connected.
- Queuing Control : Alert if one queue rule gets 50%, 75% or 100% of Bandwidth
- By Adding any route (Static, Dynamic) in routing table.
- Firewall/NAT/Mangle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

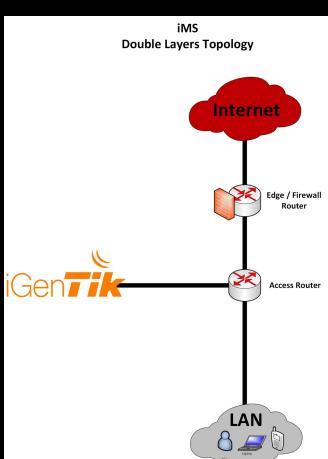
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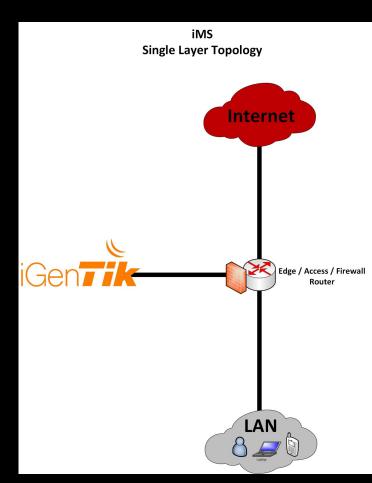
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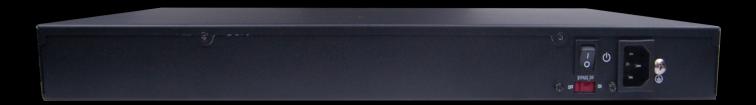


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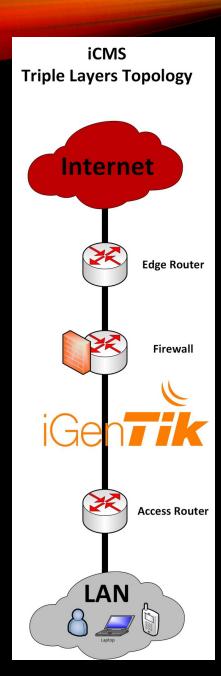


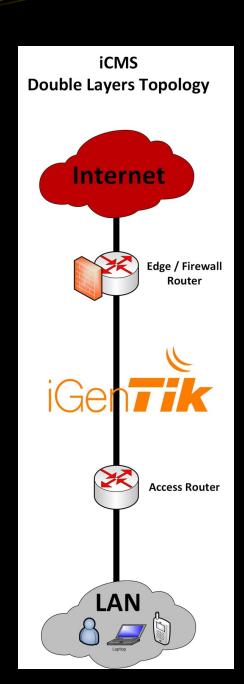


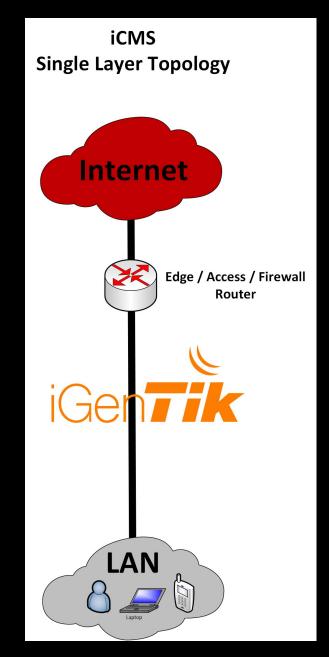












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- Sniffing
- Application Layer Attack

Wireless Control

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

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4

questions?

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MikroTikEngineers











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GOOD LUCK & ENJOY MUM