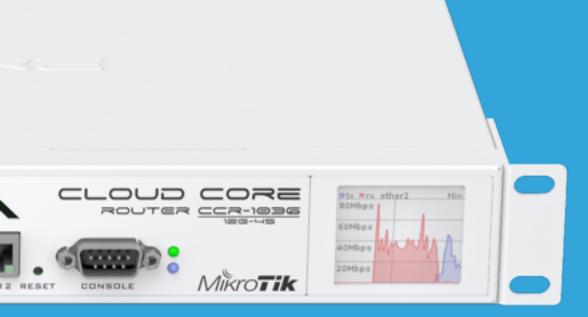
WISPCASTS.COM

ROMON VS MANAGEMENT VLAN



MANAGING ROUTERS



How do We do it

ROUTER MANAGEMENT

- Only via Management Port (really?)
- via Data Port
- Most of the time Discovery is not disabled on L2 Networks
- Mac-Winbox can be a life saver !

"IF YOU WANT TOTAL SECURITY, GO TO PRISON. THERE YOU'RE FED, CLOTHED, GIVEN MEDICAL CARE AND SO ON. THE ONLY THING LACKING... IS FREEDOM."

Dwight D. Eisenhower

MANAGEMENT IN LARGE SCALE

WHAT IF NETWORK IS LARGER

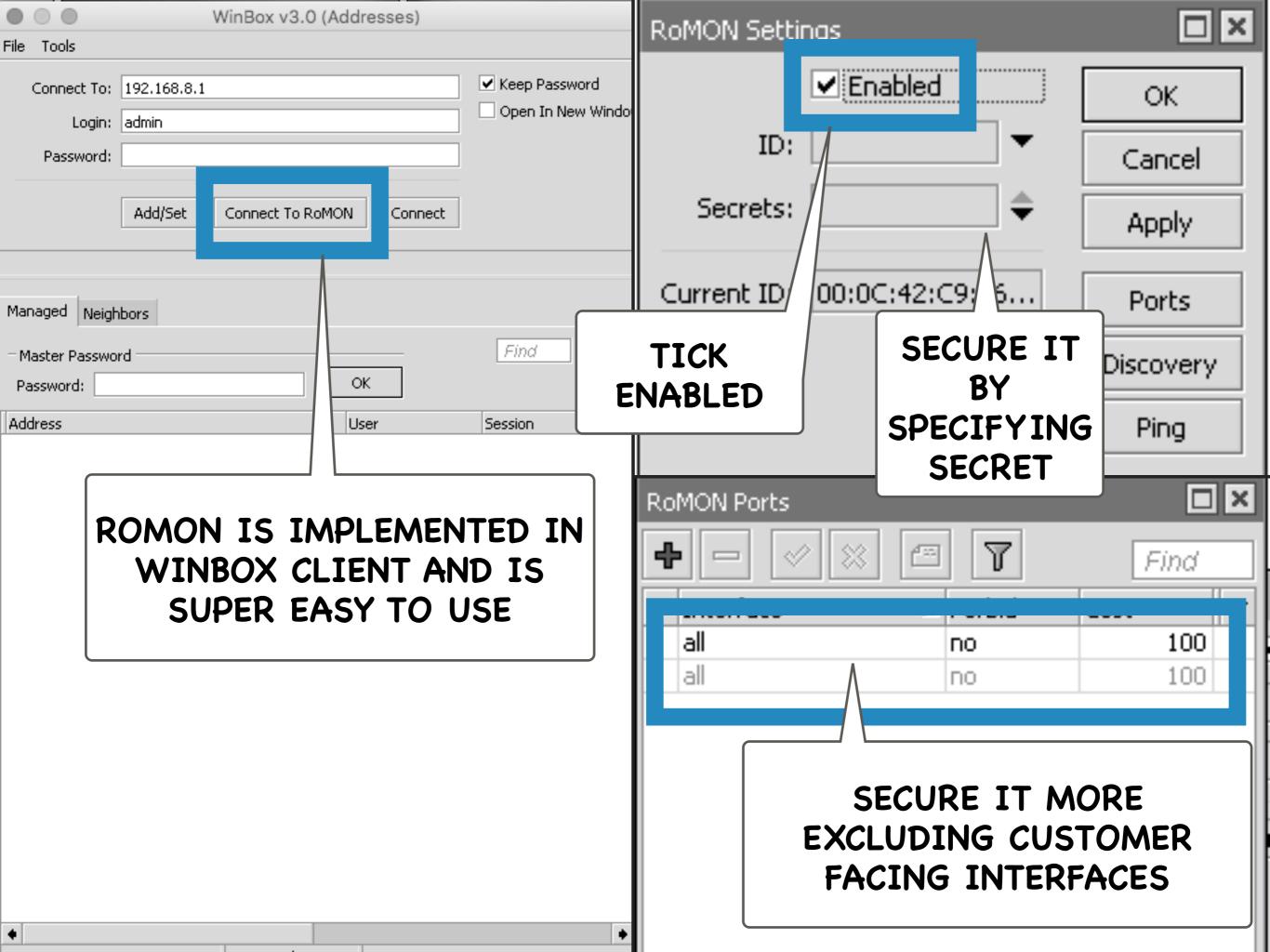


ROMON

ONE EXTRA LAYER ?

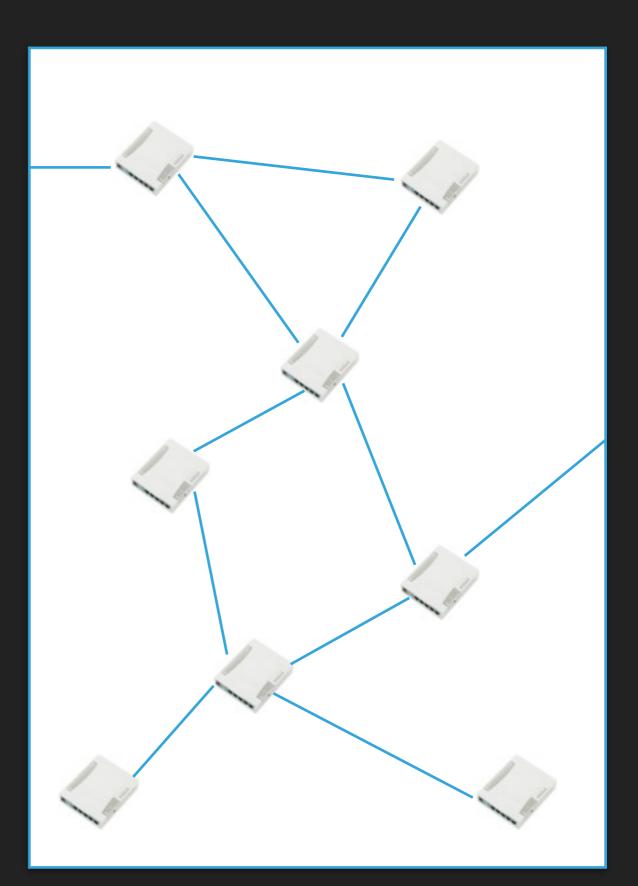
LAYER 2 ACCESS ACROSS LAYER3 NETWORK

- Allow Discovery and Management
- Works across multiple hops
- Dead easy to configure
- Dead easy to use with latest Winbox (3.x) version



WITH ROMON YOU CAN:

- Discover devices many hops away
- Have a emergency access if your OSPF (or you) will fail
- No need for big layer two network !



UNFORTUNATELY ROMON IS A PROPRIETARY PROTOCOL

Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil. Open source is good for me. Proprietary is evil.

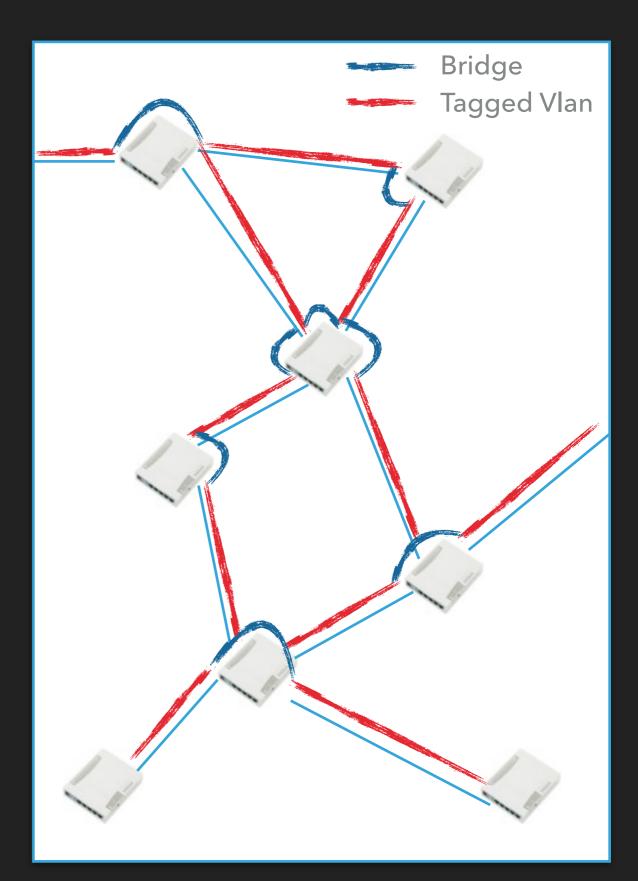


"HOWEVER, THERE IS SOMETHING WE CAN DO ABOUT THAT !"

Jeremy Clarkson, BBC

MANAGEMENT VLAN

- Management layer can be a totally bridged topology
- Why use vlans ?
- One Vlan-ID can be used across entire network



BENEFITS OF MANAGEMENT VLAN

- Separation of Data (customer) and Management Traffic (better security)
- VLAN technology is standardised and widely implemented - vendor independent
- Easy to configure —

EXCEPT CRS SERIES ;)

Ability to access third party devices on L2

New Bridge Port		New Interface	
General Status	ОК	General Status Traffic	ОК
Interface: vlan67_ether1_managment	Cancel	Name: vlan67_ether2_managment	Cancel
Bridge: managment_bridge	▼ Apply		
		CREATE VLANS ON C	ORE
Priority 80	hex Disable	L2 MTI INTERFACE	
Path Cosl 10	Comment	MAC Address:	Сору
Horizoi	🔹 Сору	ARP: en bled	Remove
		VLAN ID: 67	Torch
	ALL THEM	Interface: ether2	
Point To Poil TOGETH	HER	New Interface	
External FC		General Status Traffic	ОК
Auto Isolate	i	Name: vlan67_ether1_managment	Cancel
		Type: VLAN	Apply
enabled inactive		MTU: 1500	
	□ ×		Disable
Interface <managment_bridge></managment_bridge>		MAC Address:	Comment
General STP Status Traffic	I OK I		Copy
		ARP: enabled	
Protocol Mode: C none C stp ©rstp	Cancel	ARP: enabled	Remove
Protocol Mode: C none C stp ©rstp		VLAN ID: 67	
Protocol Mode: O none O stp Orstp	Cancel		Remove
Protocol Mode: C none C stp ©rstp	Cancel	VLAN ID: 67	Remove

MANAGEMENT VLAN – ONE BIG BRIDGE ?

HUH ? I'VE IMPLEMENTED OSPF AND NEED TO CREATE ONE BIG BRIDGE AGAIN ?

- Management Bridge "network" is not used for carrying customer data
- Broadcast Storm is not that serious as only core devices exists in management "network"
- STP may lead to not optimized path, but that is ok for emergency management traffic



	RoMON	Managmement Vlan
Can manage devices behind NAT	YES	NO
Support other clients then Winbox	NO	YES
Vendor Independent	NO	YES
Allow secure connections	YES	NO

SO SHOULD WE SWAP ROMON TO VLANS?

- RoMON is great protocol and never let me down
- Both methods can be used at same time
- I personally use both methods in networks I manage.

Visit <u>wispcasts.com</u> - place where you

can improve your s

SITE IS STILL UNDER PRODUCTION BUT VIDEO CONTENT IS ALREADY AVAILABLE, AND PUBLISHED FREQUENTLY

TWO VIDEO SERIES AVAILABLE: MIKROTIK INTRODUCTION MIKROTIK VPN

AND MANY MORE UNDERWAY

