

Mikrotik SWOS Basic VLAN Configuration

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Speaker Profile

- Adhie Lesmana
 - MTCNA, MTCWE, MTCTCE, MTCRE, MTCINE
- PowerNet Liberia, West Africa
 - Technical & Operation Manager
 - 2015 – Now
- Using Mikrotik Since 2008
- Forum Mikrotik Indonesia
 - Forum Administrator
 - The First Mikrotik User Forum in Asia
- Consultant & Networking Trainer



PowerNet Liberia



- ISP In Liberia, West Africa. since 1998.
- The First ISP with IPV6 in Liberia, West Africa.
- The Largest ISP Subscribers In Liberia. (NON GSM)
- The First ISP bring Mikrotik in Liberia, West Africa.
- And we always introduce people to use Mikrotik till today.

PowerNet Liberia

Neighbor List

Neighbors | Discovery Interfaces

Interface	MAC Address	Identity	Platform	Version	Board Name	IPv6	Age (s)	Uptime
ether13	E4:8D:8C:AF:A4:5A	MilleniumHotel	MikroTik	6.39.3 (b...	CRS125-24G-1S		16	3d 14:22:19
ether13	D4:CA:6D:FE:30:F8	PowerNetOffice	MikroTik	6.39.3 (b...	CRS125-24G-1S-2HnD	yes	43	56d 04:13:37
ether13	D4:CA:6D:D0:33:CB	EmbassySuite	MikroTik	6.38.5 (st...	RB SXT 5HPnD	yes	48	41d 13:03:28
ether13	D4:CA:6D:9E:48:41	HajjAirfield	MikroTik	6.39.3 (b...	RB SXT 5HPnD	no	41	06:37:17
ether13	00:0C:42:C8:C2:30	NrecaHouse	MikroTik	6.40.3 (st...	RB SXT 5HPnD	no	58	18d 10:21:43
ether13	00:0C:42:C8:C3:3C	NrecaOffice	MikroTik	6.40.3 (st...	RB SXT 5HPnD	no	30	30d 10:16:02
ether13	D4:CA:6D:D0:D3:0D	VPOfficeHQ	MikroTik	6.40.4 (st...	RB SXT 5HPnD	no	16	13:31:16
ether13	6C:3B:6B:02:00:9F	DenckToliver	MikroTik	6.40.3 (st...	RB SXT 5HPnD r2	no	14	2d 07:32:14
ether13	6C:3B:6B:03:48:FB	A La Lagoon	MikroTik	6.39.3 (b...	RB SXT 5nD r2	no	29	07:25:13
ether13	6C:3B:6B:80:D0:61	AMERICAN SCHOOL	MikroTik	6.34.4 (st...	RB SXT 5nD r2	no	34	7d 19:01:25
ether13	4C:5E:0C:E2:5B:23	AbigailFreeport	MikroTik	6.40.3 (st...	RB SXT 5nD r2	no	36	09:37:13
ether13	4C:5E:0C:0D:CF:D7	AdiHouse	MikroTik	6.40.3 (st...	RB SXT 5nD r2	no	15	10:59:13
ether13	4C:5E:0C:EF:AF:E9	BassemHarbHome	MikroTik	6.40.3 (st...	RB SXT 5nD r2	no	7	13:28:13
ether13	E4:8D:8C:DB:C2:BB	Christina	MikroTik	6.40.3 (st...	RB SXT 5nD r2	no	13	13:31:13
ether13	6C:3B:6B:79:DE:83	ColleteClark	MikroTik	6.38.3 (st...	RB SXT 5nD r2	no	30	2d 14:10:19
ether13	E4:8D:8C:71:08:77	DonaldEmbassyUS	MikroTik	6.39.3 (b...	RB SXT 5nD r2	yes	32	2d 14:10:16
ether13	6C:3B:6B:C1:5C:E3	FaroukFnFBldg	MikroTik	6.34.4 (st...	RB SXT 5nD r2	no	53	12:51:16
ether13	E4:8D:8C:55:E5:E9	FloraFauna	MikroTik	6.38 (sta...	RB SXT 5nD r2	yes	36	6d 17:22:27
ether13	6C:3B:6B:B1:EF:61	GeraldMegaCmpn	MikroTik	6.40.3 (st...	RB SXT 5nD r2	no	13	06:05:12
ether13	4C:5E:0C:EA:F9:DD	Gesco	MikroTik	6.40.3 (st...	RB SXT 5nD r2	no	24	09:23:13
ether13	E4:8D:8C:64:75:2F	GoldenGateHotel	MikroTik	6.39.3 (b...	RB SXT 5nD r2	yes	34	12:42:14

179 items

- Using more than 300 Mikrotik Devices.
- Network Managed by Dude,
- Wireless Centralized by CapsMan
- User Authenticated by UserMan
- Core Routing, BGP, PPPoE Server, FULL Mikrotik. End to End.

SWOS

Software Operating System for Mikrotik Switch

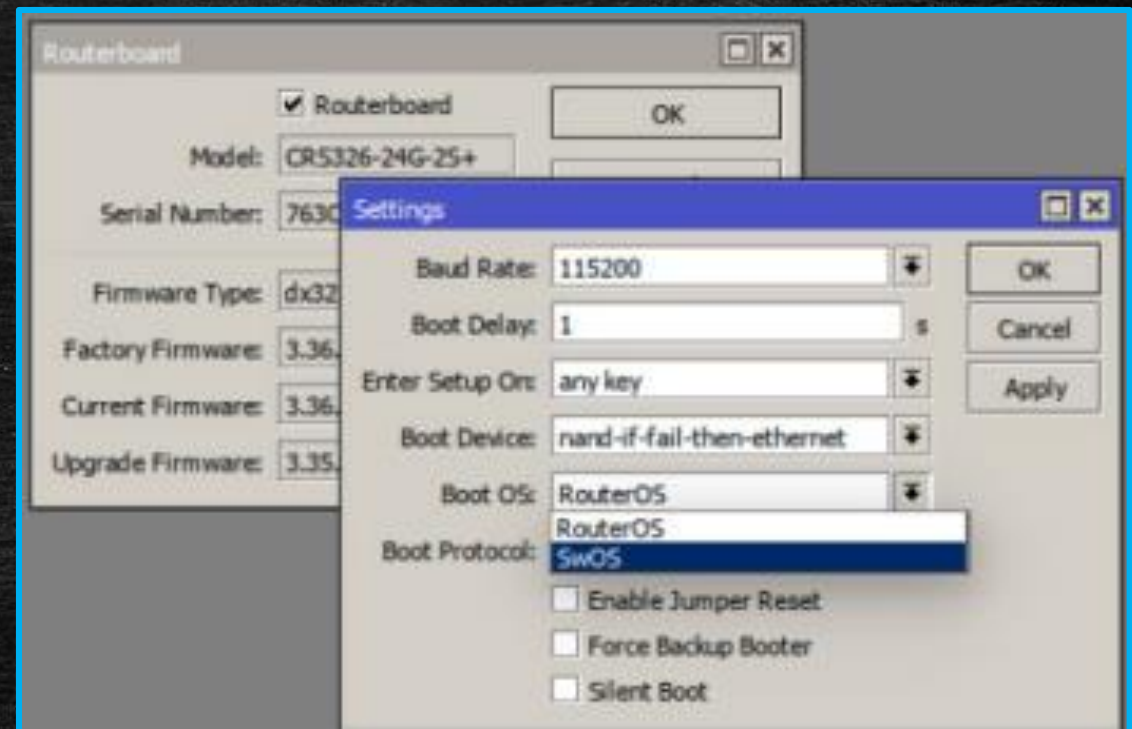
MikroTik Software OS

- MikroTik SWOS
 - MikroTik Switch OS
 - Only for MikroTik Hardware Switch
 - Only Web Based Configuration
 - <http://192.168.88.1>
 - User = admin (without password)
- MikroTik ROS
 - MikroTik Router OS
 - Installed on MikroTik RouterBoard
 - Available For x86 PC and Similar
 - Also For Cloud Hosted Router



MikroTik SWOS

- SWOS Version 1.17
 - RB260GS – RB260GSP
- SWOS Version 2.6
 - Only For CSS Family
 - RB260GS (CSS106-5G-1S)
 - RB260GSP (CSS106-1G-4P-1S)
 - CSS326-24G-2S+
 - CRS326-24G-2S+
 - Dual Boot Option
 - SWOS or RouterOS
 - CRS317-1G-16S+
 - Fiber SFP Switch



MikroTik SWOS

No.	Service	Available
1	Web Configuration	Yes
2	SSH / Telnet / Console	No
3	SNMP	Yes
4	MikroTik Discovery	Yes

SWOS Version 1.17

MikroTik SwOS Logout

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	Port 1	Port 2	Port 3	Port 4	Port 5
Link					
Enabled	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Name	<input type="text" value="Port1"/>	<input type="text" value="Port2"/>	<input type="text" value="Port3"/>	<input type="text" value="Port4"/>	<input type="text" value="Port5"/>
Link Status	link on	link on	link on	link on	no link
Auto Negotiation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Speed	100	1000	1000	1000	
Full Duplex	yes	yes	yes	yes	no
Flow Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PoE					
PoE Out		<input type="text" value="off"/>	<input type="text" value="on"/>	<input type="text" value="off"/>	<input type="text" value="auto"/>
PoE Priority		<input type="text" value="4"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>
PoE Status	disabled	disabled	powered on	disabled	waiting for load
PoE Current			101mA		
PoE Power			2.364W		

SWOS Version 2.6

MikroTik SwOS Logout

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	Enabled	Name	Link Status	Auto Negotiation	Speed	Full Duplex	Flow Control
Port1	<input checked="" type="checkbox"/>	<input type="text" value="Port1"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port2	<input checked="" type="checkbox"/>	<input type="text" value="Port2"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port3	<input checked="" type="checkbox"/>	<input type="text" value="Port3"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port4	<input checked="" type="checkbox"/>	<input type="text" value="Port4"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port5	<input checked="" type="checkbox"/>	<input type="text" value="Port5"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port6	<input checked="" type="checkbox"/>	<input type="text" value="Port6"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port7	<input checked="" type="checkbox"/>	<input type="text" value="Port7"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port8	<input checked="" type="checkbox"/>	<input type="text" value="Port8"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port9	<input checked="" type="checkbox"/>	<input type="text" value="Port9"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port10	<input checked="" type="checkbox"/>	<input type="text" value="Port10"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port11	<input checked="" type="checkbox"/>	<input type="text" value="Port11"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port12	<input checked="" type="checkbox"/>	<input type="text" value="Port12"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port13	<input checked="" type="checkbox"/>	<input type="text" value="Port13"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port14	<input checked="" type="checkbox"/>	<input type="text" value="Port14"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>
Port15	<input checked="" type="checkbox"/>	<input type="text" value="Port15"/>	no link	<input checked="" type="checkbox"/>		no	<input checked="" type="checkbox"/>

VLAN Configurations

SWOS VLAN Configuration Under VLAN and VLANs Menu

Vlan Tab Configuration

SWOS 1.17

	Port1	Port2	Port3	Port4	Port5	SFP
Ingress						
VLAN Mode	optional ▾	enabled ▾	strict ▾	strict ▾	strict ▾	strict ▾
VLAN Receive	any ▾	only tagged ▾	only untagged ▾	only untagged ▾	only untagged ▾	any ▾
Default VLAN ID	1	1	200	300	400	1
Force VLAN ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Egress						
VLAN Header	leave as is ▾	leave as is ▾	leave as is ▾	leave as is ▾	leave as is ▾	leave as is ▾
						<input type="button" value="Discard Changes"/> <input type="button" value="Apply All"/>

Vlan Tab Configuration

- VLAN Menu
 - VLAN Port Configuration
 - VLAN Mode
 - Select VLAN Mode the specific Port
 - Disabled, Optional, Enabled or Strict
 - VLAN Receive
 - Defines the allowed packets
 - Tagged, untagged, or any
 - VLAN ID
 - Setup the default VLAN ID
 - Force VLAN ID to default VLAN ID for any incoming packets
 - VLAN Header
 - To Add, Remove or Leave the VLAN as is.

Vlan Tab Configuration

SWOS 2.6

MikroTik SwOS Logout

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	VLAN Mode	VLAN Receive	Default VLAN ID	Force VLAN ID
Port1	optional ▾	any ▾	<input type="text" value="1"/>	<input type="checkbox"/>
Port2	optional ▾	any ▾	<input type="text" value="1"/>	<input type="checkbox"/>
Port3	optional ▾	any ▾	<input type="text" value="1"/>	<input type="checkbox"/>
Port4	enabled ▾	only tagged ▾	<input type="text" value="1"/>	<input type="checkbox"/>
Port5	enabled ▾	only untagged ▾	<input type="text" value="200"/>	<input type="checkbox"/>
Port6	enabled ▾	any ▾	<input type="text" value="300"/>	<input type="checkbox"/>
Port7	enabled ▾	only untagged ▾	<input type="text" value="400"/>	<input type="checkbox"/>
Port8	disabled ▾	any ▾	<input type="text" value="1"/>	<input type="checkbox"/>
Port9	disabled ▾	any ▾	<input type="text" value="1"/>	<input type="checkbox"/>
Port10	disabled ▾	any ▾	<input type="text" value="1"/>	<input type="checkbox"/>

VLANs Tab Configuration

- VLANs MENU
 - VLAN TABLE
 - Specifies certain forwarding rules for packets with vlan-id tag.

VLANs Tab Configuration

SWOS 1.17

MikroTik SwOS Logout

VLAN ID	Port1	Port2	Port3	Port4	Port5	SFP		
100	not a member	add if missing	always strip	not a member	not a member	not a member	Cut	Insert
300	not a member	add if missing	not a member	always strip	not a member	not a member	Cut	Insert
400	not a member	leave as is	leave as is	leave as is	leave as is	leave as is	Cut	Insert

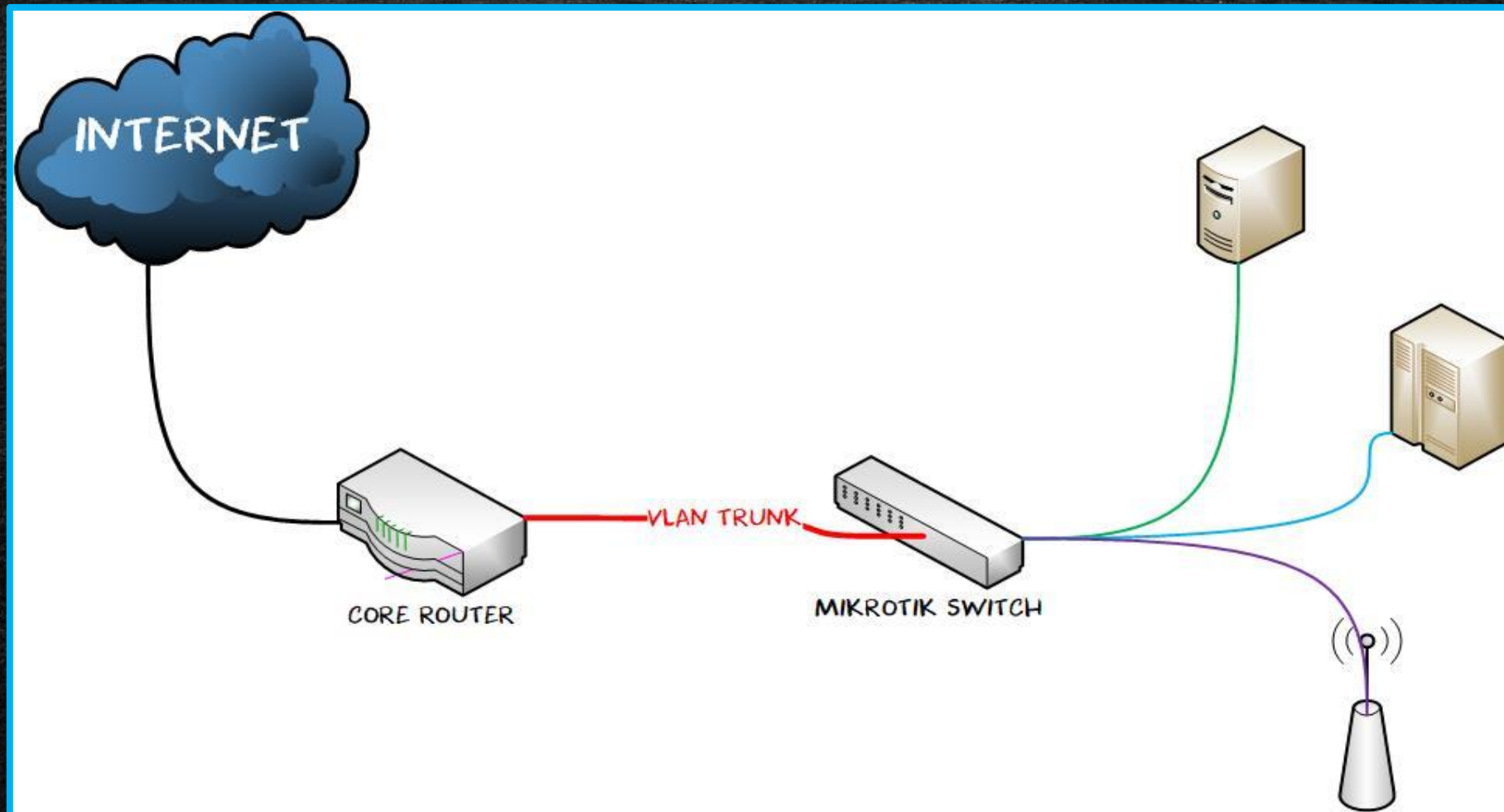
VLAN Basic Practice

- Mikrotik Switch for Trunk Port and Edge Port -

VLAN Basic Practice

- We will setup vlan port configuration with three different vlan ID.
- One port as vlan Trunk
- Three more ports as edge port (access port).
- Connection coming from Router Core with VLANs and Trunk configured already.

VLAN Topology



Trunk & Edge Port Setup

SWOS 1.17

	Port1	Port2	Port3	Port4
Pending changes				
Ingress				
VLAN Mode	enabled ▾	strict ▾	strict ▾	strict ▾
VLAN Receive	any ▾	only untagged ▾	only untagged ▾	only untagged ▾
Default VLAN ID	1	10	20	30
Force VLAN ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Egress				
VLAN Header	add if missing ▾	always strip ▾	always strip ▾	always strip ▾

Trunk & Edge Port Setup

SWOS 2.6

MikroTik SwOS

Logout

Link SFP Port Isolation LAG Forwarding RSTP Stats Errors Hist **VLAN** VLANs Hosts IGMP SNMP ACL System

Upgrade

	VLAN Mode	VLAN Receive	Default VLAN ID	Force VLAN ID
Port1	optional ▼	any ▼	1	<input type="checkbox"/>
Port2	enabled ▼	only untagged ▼	10	<input checked="" type="checkbox"/>
Port3	enabled ▼	only untagged ▼	20	<input checked="" type="checkbox"/>
Port4	enabled ▼	only untagged ▼	30	<input checked="" type="checkbox"/>
Port5	optional ▼	any ▼	1	<input type="checkbox"/>
Port6	optional ▼	any ▼	1	<input type="checkbox"/>

VLAN Table

SWOS 1.17

192.168.88.1/index.html#vlans

MikroTik SwOS

Link SFP Forwarding Statistics **VLAN** VLANs Static Hosts Hosts SNMP ACL System

VLAN ID	Port1	Port2	Port3	Port4
1	leave as is	leave as is	leave as is	leave as is
10	leave as is	always strip	not a member	not a member
20	leave as is	not a member	always strip	not a member
30	leave as is	not a member	not a member	always strip

TRUNK

MikroTik Switch Advantages

- Cheapest manageable switch
- FULL feature of advanced manageable switch
 - Isolation, Forwarding, Mirror, Vlan, Link Aggregation, RSTP, IGMP, ACL, SNMP, etc.
- Comes with Output POE Port (RB260GSP)
 - Easy to centralize power and control the POE output.
- Help you to Extend Physical Interfaces
 - If your router just have a few Ethernet port, and you need more Ethernet port, you can create trunk port and vlan between your Router and your MikroTik Switch, to get more additional interfaces.
 - Used for specific purposes. Like Hotspot, pppoe, L2 connection etc.

Isolation Port

- Control port forwarding
- Prevent from Broadcast Loop
- Prevent from Unwanted Crossing traffic
 - from port to port.
- Secure Local Network from netcut, Wireshark, reduce unnecessary ARP traffic, etc.
- Latest version of SWOS coming with RSTP menu and Isolation Port menu, but only for CSS version.
 - For the Previous Version (SWOS 1.17) isolation port managed on forwarding menu without RSTP feature.

Isolation Port

- We can also use Isolation Port as Port Grouping.
- Isolation Port WILL NOT BLOCK remote access to the switch it self.
 - To manage remote access, the option available on the system menu.

Isolation Port

SWOS 2.6

MikroTik SwOS																								
Link SFP Port Isolation LAG Forwarding RSTP Stats Errors Hist VLAN VLANs Hosts IGMP																								
From VM Server 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
From VM Server 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
From PTP MIKE House	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
From PTP US Marine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
From VLAN TO MK AFR	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
From Port6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
From PN ROOF SWITCH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
From PTP APM Terminal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
From Port9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Isolation Port

SWOS 1.17

MikroTik SwOS Logout

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	Port1	Port2	Port3	Port4	Port5	SFP
Forwarding						
From Port1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
From Port2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
From Port3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
From Port4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
From Port5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
From SFP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Thank You

– Adhie Lesmana –

– Fb : adhielesmana – twitter : @adhielesmana –

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