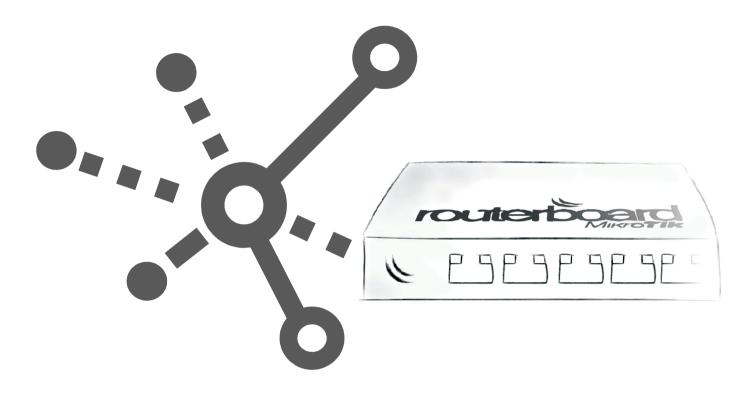
MUM Europe, Venice 2014.03.20 Andis Arins / router.lv



MikroTik + OpenFlow = the future

Presenter – Andis Arins



- MikroTik Consultant at <u>www.router.lv</u>
- MikroTik / Microsoft certified trainer
 - Member of the board in Latvian Internet Association
 - Review expert EU EC in future networking research

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Why OpenFlow?



Main Idea: manage the WAN as a *fabric* not as a collection of individual routers

- Separate hardware from software
- Centralized network control
 - More efficient
 - More fault tolerant

Why OpenFlow?

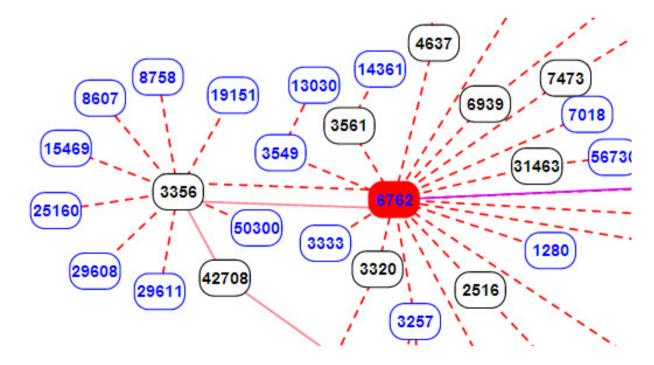


Current equipment and protocol limitations

- Internet protocols are box centric, not fabric centric
- Weak monitoring opportunities
- Little support for low latency routing and quick failover

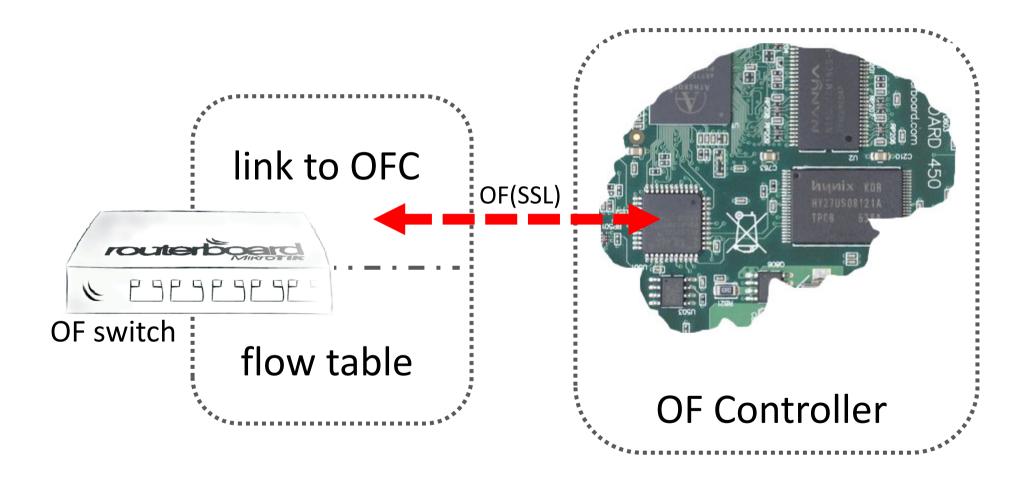
Expected Result:

more fault tolerant and clever WAN for less money!



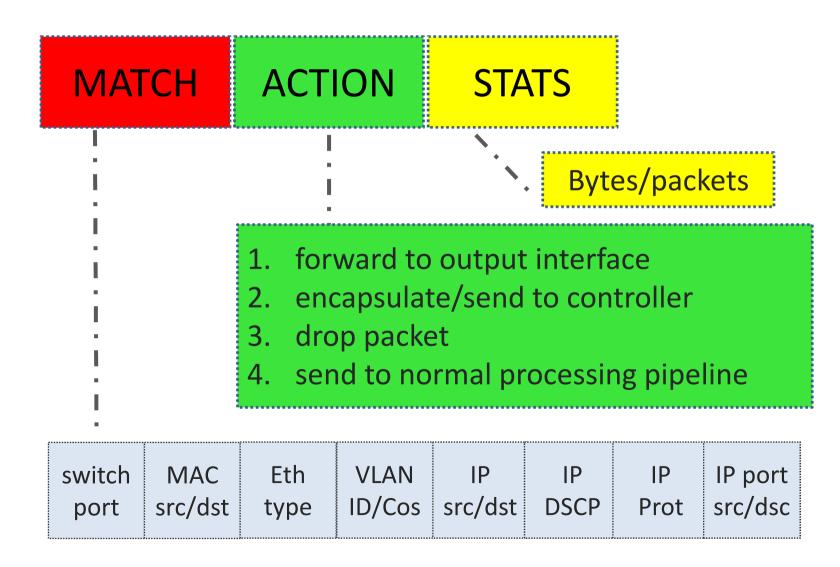
What is OpenFlow?











OpenFlow decision examples



switching

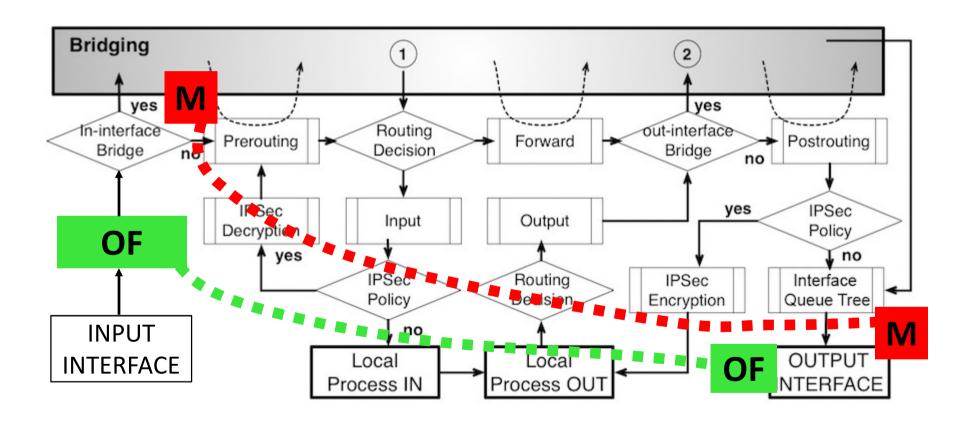
port	src/dst	type		src/dst		Prot	src/dsc	ACTION
switch	MAC	Eth	VLAN	IP	IP	IP	IP port	ACTION

OF switching

switch port	MAC src/dst	Eth type	VLAN ID/Cos	IP src/dst	IP DSCP	IP Prot	IP port src/dsc	ACTION
port3	cd/ab	0800	15/46	1.3.5.7	2.4.6.8	17	*/5060	port1

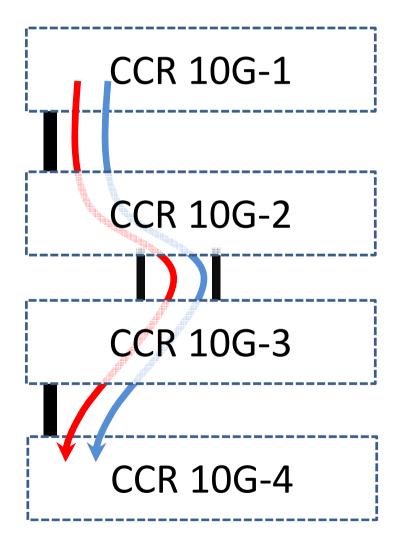
Packet flow diagram





OpenFlow DEMO







Thank You!

