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Bridge Off Load on RouterOS

BY DEEPAK PATEL

About Me

- Deepak Patel (WaveFiber)
- 10 years of experience in Communication Industry
- Expertise in Designing & implementation of ISPs & Corporate Networks
- MikroTik Certified trainer & Certified consultant .
- Working with MikroTik solutions since 2007
- MikroTik Certified Engineer in MTCNA, MTCWE
 MTCTCE & MTCRE
- Cisco Certified Engineer CCNA & CCNP
- Still acting as student, eager to learn as much as I can..

Session Goal

- Concepts involving Bridge HW-offload feature.
- •Upon completion of the presentation you will have thorough idea about the subject feature and be able to configure, maintain & troubleshoot the same.
- •Walk through ...

Feature Outline

- Starting from version 6.40.xx,
- Interface bridge on RouterOS will forward
 L2 packets and it will use switch-chip for Hw-offloading, if conditions met
- Master port settings are NOT required on interface
- Be careful while upgrading to the new version,
- Downgrading from New to Older version will NOT retain master port settings
- By default, HW-offloading feature is enabled, if not required, you can manually disable the same.

Bridge offload feature

- Works on RouterOS
- Also supported on CRS1xx/2xx/3xx series switches

Bridging vs Switching

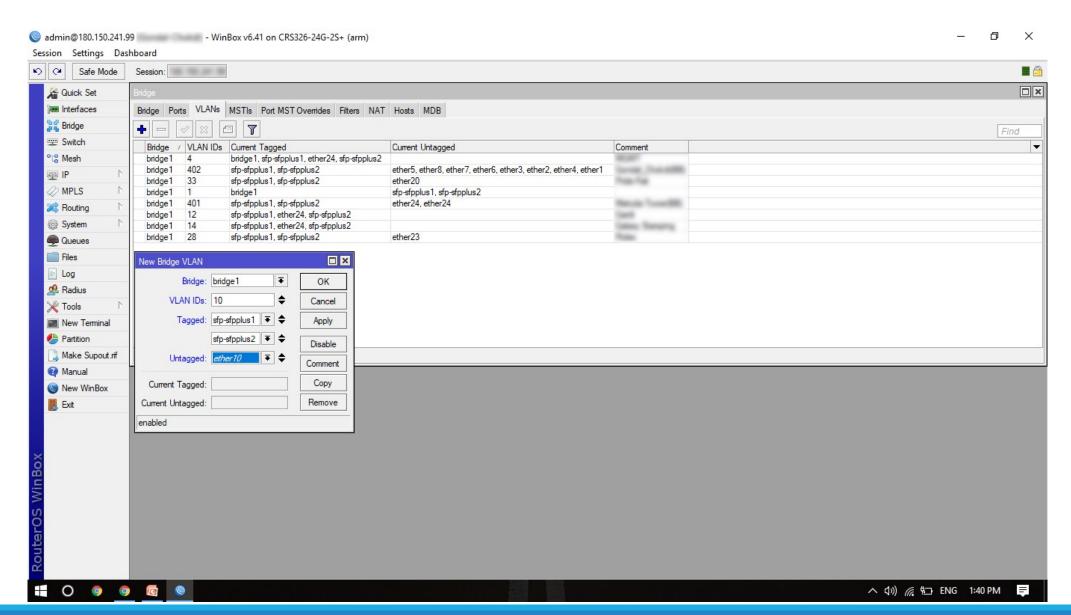
Bridging vs Switching

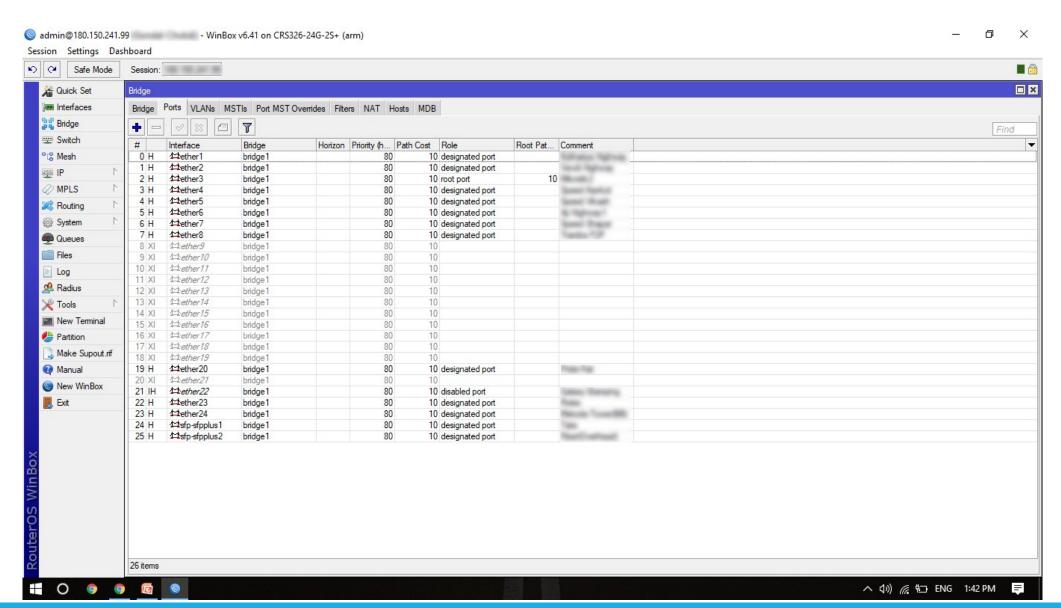
- Bridge uses the CPU; Switch the dedicated switching chip
- There are instances where you have to use a bridge
- Multiple ports can be bound in groups
- Bridge can connect multiple groups
- •A bridge is a Linux Kernel software bridge it can do filtering, packet capture of traffic between ports, etc.
- Lower performance software accelerated.

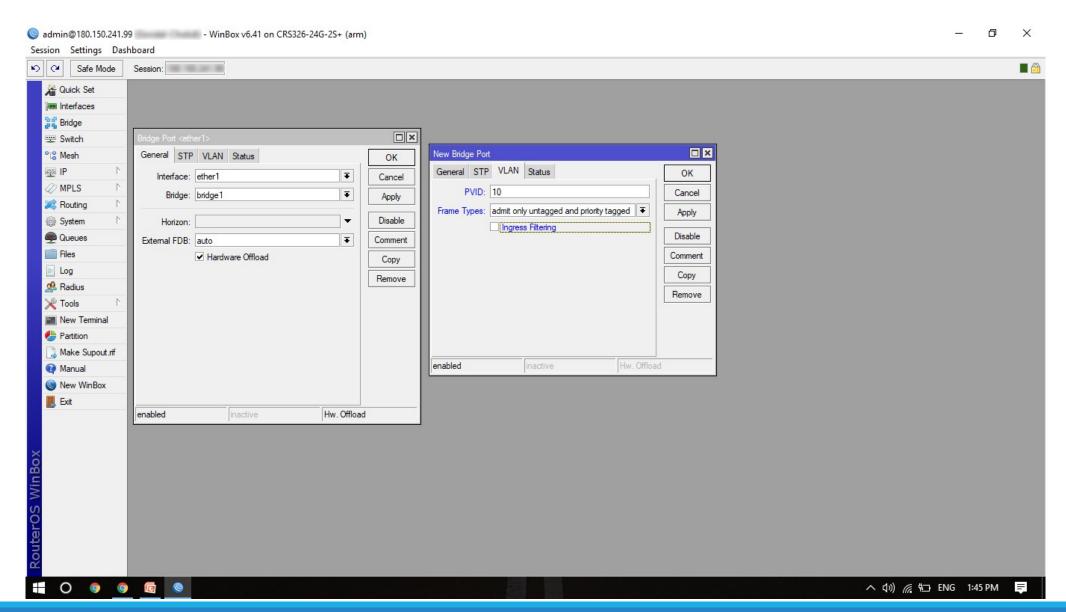
Bridging vs Switching

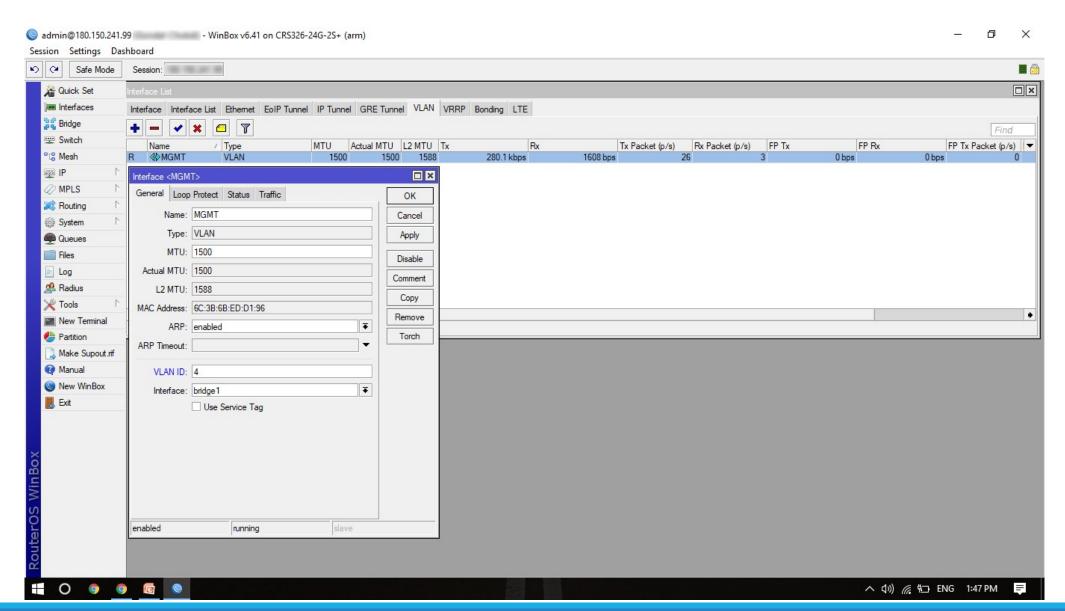
- RouterOS v6.40rc29 bridges provides VLAN aware Layer2 forwarding
- •VLAN tag modifications within the bridge.
- Operates like a traditional ethernet switch
- •Allows to overcome STP compatibility issues
- Bridge VLAN Filtering configuration
- Comply with STP & RSTP standards and
- Mandatory to enable MSTP support in RouterOS.

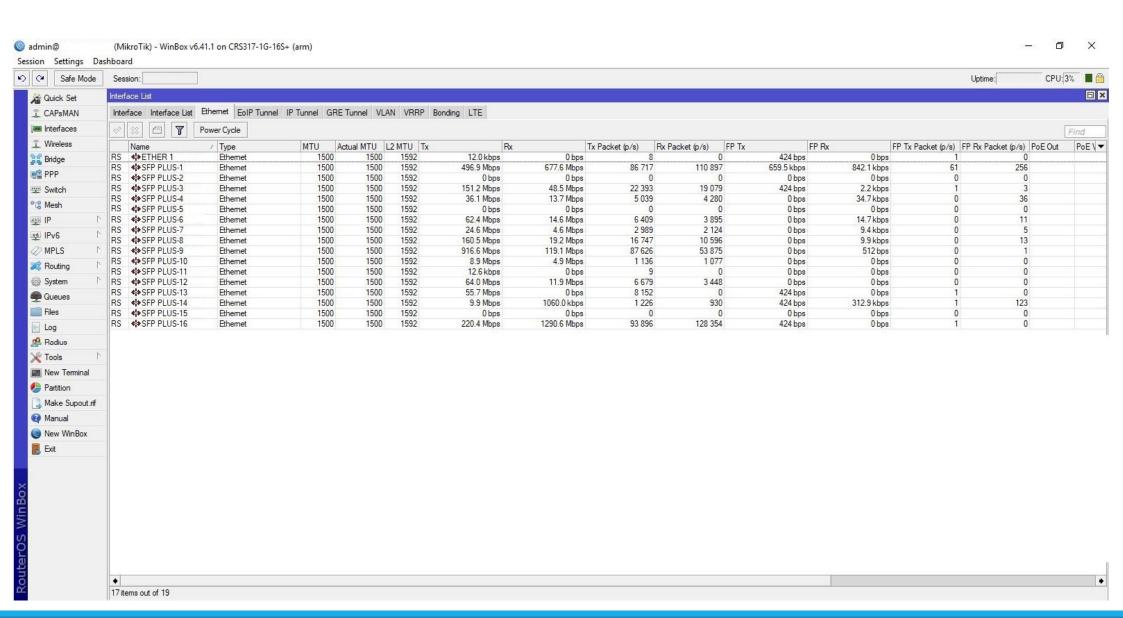
Walkthrough

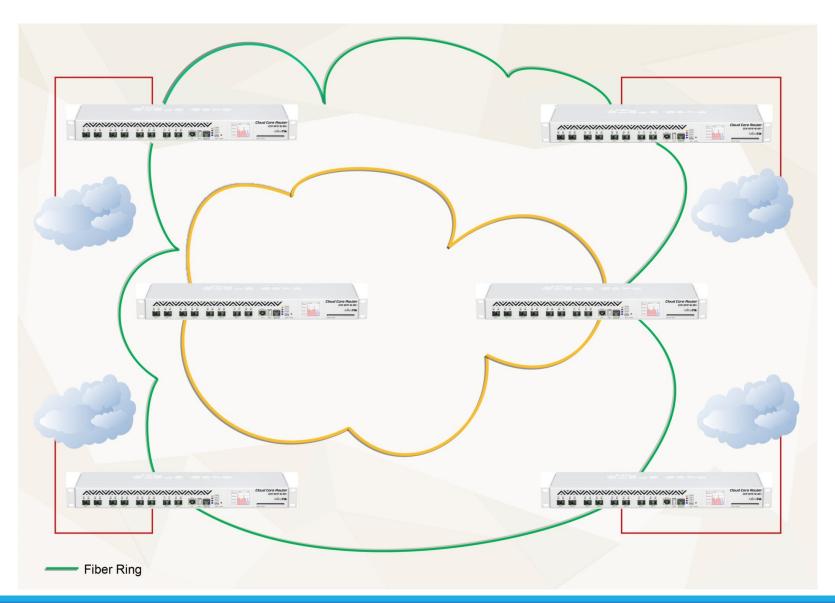












Any Suggestions

Thank you