
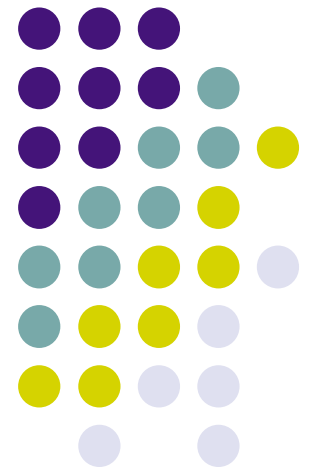
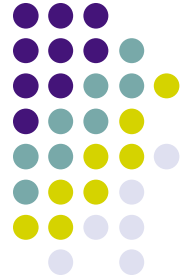


Automatic Multicast Tunneling Open Source Development *

Sachin Karisiddappa
Dr. Kamil Sarac
Univ. Texas at Dallas

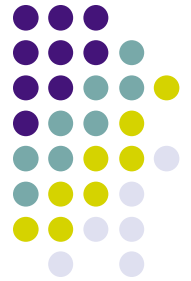
* Funded by 





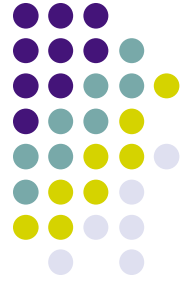
AMT – Initial BSD Code

- Initial code for AMT Relay and Gateway for BSD were developed by Tom Pusateri
- No support for IGMPv3
- No support for forwarding IGMP requests from other hosts
- Was compliant with AMT draft version 3



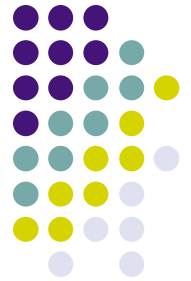
AMT - Linux port

- Ported Tom's BSD code to Linux
- Added support for IGMPv3
- Added support for forwarding IGMP requests from other hosts
- Compliant with AMT draft version 7
- Only receiving multicast in the AMT site is supported



IGMP Proxy

- Ported the IGMP proxy developed by Lahmadi Abdelkader of Loria, France
- Compliant with “IGMP/MLD Proxying” RFC (rfc-4605) except for NO MLD support
- Added support for configuring downstream and upstream interfaces

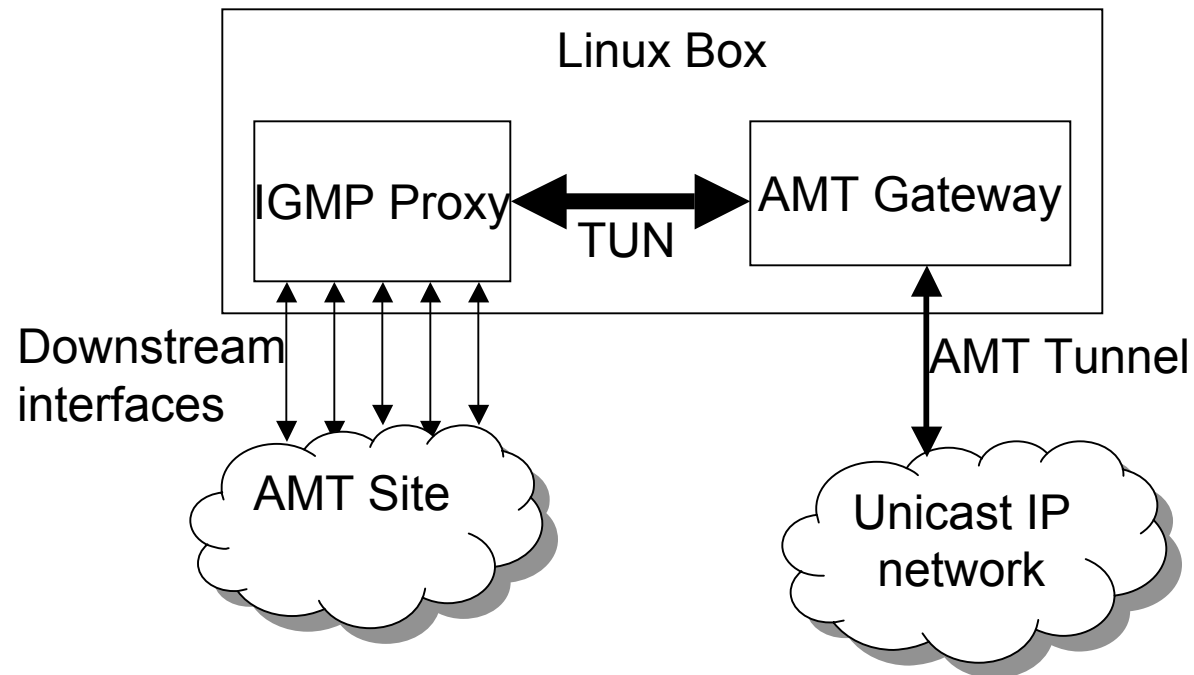


Linux AMT Gateway

- AMT Gateway and IGMP proxy run as two different daemons
- Gateway needs to be UP before the IGMP proxy
- Communication happens through TUN interface
- TUN is configured as upstream interface for the IGMP proxy
- The TUN interface can be configured while starting AMT gateway



AMT Gateway Architecture

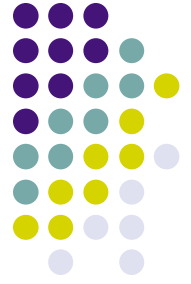




Interoperability

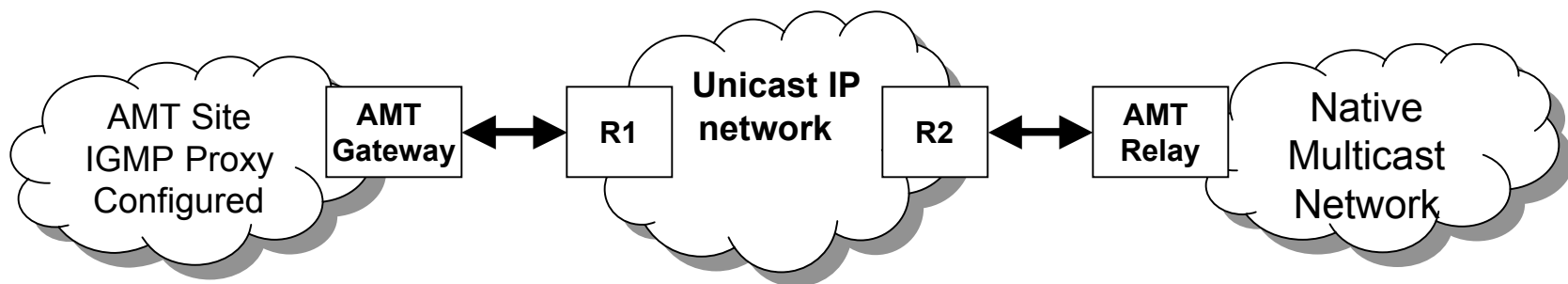
Linux AMT Gateway interoperates with

- Cisco Relay
- Open Source Relay

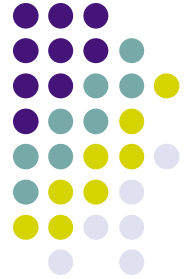


Testing

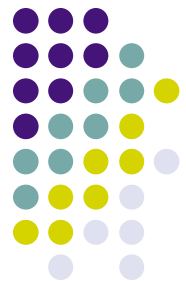
- Video Lan Server used as source
- VLC and TestMSF used as clients
- Test Environment:



AMT Gateway & IGMP Proxy



- Can download both at www.cs.utdallas.edu/amt



Thank you