

BY Developers FOR Developers

SMB Client Synergy

Tal Widerman & Steven French

Panel members:

- Jeremy Allison Google / Samba Team
- Brad Suinn Apple
- Lilia Wasserman Visuality Systems
- Steven French Microsoft
- Genghis Karimov Microsoft
- Meng Li Microsoft

Background

- Anything can be an SMB client
- Connect to the same SMB server
- Good examples downstairs
- SMB3.1.1 secured



SMB today

- SMB3 highlights:
 - End-to-end encryption
 - Transparent Failover
 - Scale Out
 - MultiChannel
 - Directory Leasing
 - QUIC
 - Compression





SMB CLIENTS AVAILABLE TODAY



Microsoft Client



- Platforms:
 - Windows operating systems
- Usage:
 - Desktops, laptops, smart devices, cloud based VMs



Apple Client



- Platforms:
 - Mac OS (client + server), iOS (client)
- Usage:
 - Desktops, laptops, iPads, iPhones



SMB Client- Samba team



- Platforms:
 - Unix/Linux/Android/ChromeOS
- Usage:
 - Desktops, laptops, web devices
- Available as a library plug-in for other programs
- Free Software under GNU GPLv3 license



Linux Kernel Client (cifs.ko)

- Platforms:
 - Linux
- Usage:
 - File system driver, can also be run as loopback device for block device emulation. Used on Desktops, laptops, embedded devices and more
- Free Software under GNU GPLv2 license
- "cifs-utils" repo also includes various user space utilities and tools



libsmb2- Samba team



Free Software under GNU LGPLv2.1 (or later) license



What is libsmb2

- Libsmb2 is a small footprint SMB2/3 client that runs in userspace.
- Libsmb2 is highly portable. It builds and runs on Windows/Linux/BSD/MacOS/iOS/Android/WatchOS/... and even on some micro-controllers.
- It also builds on UWP so if you want that XBOX application you are building to have SMB2/3 access ...



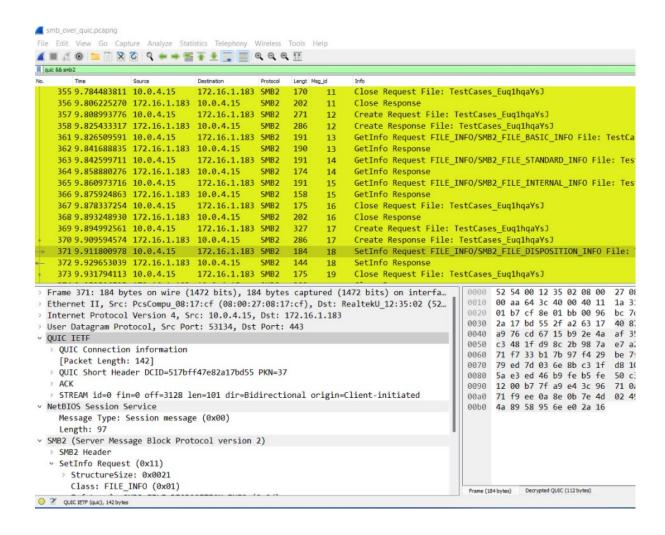
NQ Client – Visuality Systems

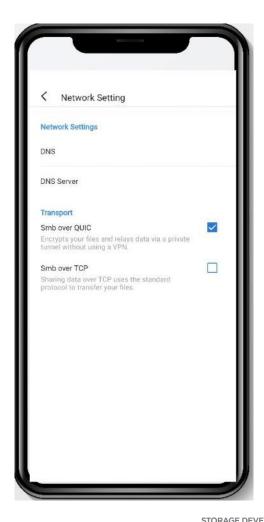


- Platforms:
 - Portable to any platform
- Usage:
 - Embedded / IOT
 - Storage/cloud systems
 - Java Applications
 - Mobile
- Commercial license



SMB over QUIC







Connecting to Azure SMB server

- Biggest SMB server in the world in terms of usage
- Port 445 outbound must be open
- Accepting only encrypted connections from the internet. Within the data center unencrypted allowed if the client doesn't support it.
- SMB Over QUIC







Let's begin...



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