

What the Raw Reassembled File Looks Like

```
# First element is the sequence number. Second : 
# You need the sequence number to reassemble the

(0, '12345678')
(1, '90\n\x00\x00\x00\x00\x00')
```

That's It

This can be automated and made to be very efficient, but I won't get into that. It also works on very large files (2^32 * 8) and with any type of file (text, binary, etc). So, now you know how to exfiltrate files from a firewalled network using simple DNS queries. When/if the network security team figures this out and blocks it, I'll demonstrate a few other ways in which data can be exfiltrated.

Again, this information is meant for research/educational purposes only.

Related Work

- iodine
- OzymanDNS
- DNStunnel.de
- http://tools.ietf.org/html/draft-vixie-dnsext-dns0x20-00

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