Botconf Lightning Talk on Qakbot

All research was performed together with João Gouveia (@jgouv).

It was performed using data from AnubisNetworks' Cyberfeed.

Qakbot?

Looks over your shoulders when you do your online banking. Especially if you're in the US.

Had its 15 minutes of fame around 2011.

Became active again late in 2013.

C&C protocol

v = [VERSION] & c = [REQUEST]

[REQUEST] is Base64-encoded information about machine.

Protocol versions

Version 2: plaintext

Version 3,4,5: keysize | key | payload uses XOR 'encryption'

Version 8: random data

Completely random?

No. There's a small bias in the 18th byte.

RC4

First 16 bytes likely used for the key. Any ideas?

C&C protocol version 8

