

True Stories of Ransomware

Myths, lies, and misconception's uncovered.

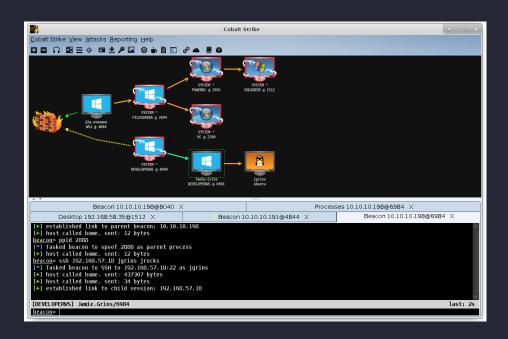
"A highly sophisticated attack..."



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"Threat 'intelligence' & Attribution "



Over 100,000 "DNS requests leaving the network and heading to an IP address in China. The domain had been recently "reregistered" to an individual in China.

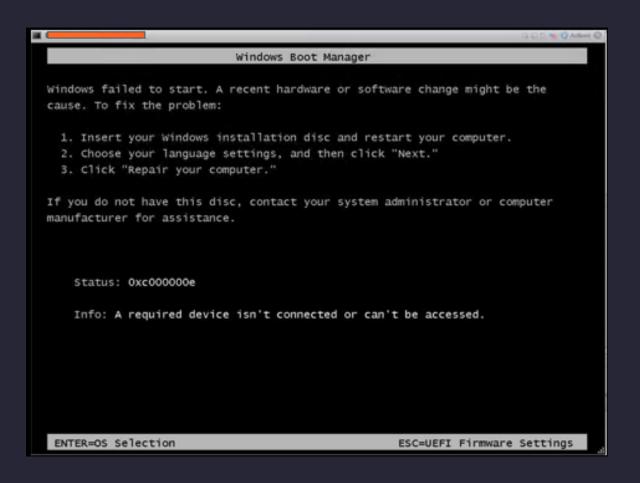
SAMPLE no. 1 • 2_01282a85f97f_7_1296_0_exe-sqreweivmaet-llatsnic.d23bbe432b56b3248204d5cff31408ea._____.com

 Each DNS request had a unique number string at the start

• Followed by a file name, written backwards.

 Then a hash value, and finally the domain the data was being sent to.

"Backing up your false sense of security" rightmove



- Your backups are a target for attackers, even the dimmest of the dumb.
- Most tape backups will recover at a maximum of 400mps, older tap systems can be as slow at 40mps.
- An 80TB (rough average size for a small network) would take 20 days just to get data of the tape drive.
- Now work out where you are going to put that 80TBs of data, especially if you are starting recovery while a CSIRT is still investigating.
- Getting to your backups should be the goal of your yearly red-team.

"Cyber insurance payday"

rightmove 🗘

- Ransom demand from the attacker £1,000,000.
- Legal fees to a law firm in the UK to run due-diligence on the attackers and establish legal cover for making the payment -£50,000
- Fees to a "ransomware negotiation" company they got a discount from the attackers as part of the service - £40,000.
- "fluctuation" fee for the ransomware payment to be converted into bitcoin £20,000.
- Fees to an external accountancy firm to liquidate the £1,000,000
 estimated at £30,000.
- Fees to a US Law firm for FBI notification estimated at £40,000.
- Fees to an external "communications company" for share holders and media comments - £60,000 + undisclosed retainer fee for long term support.
- 240 hours of none retainer emergency response £84,000.
- Over time for 3 weeks work to at least 20 staff Estimated at £200,000
- 3 weeks loss of earnings, reported to be £300,000 per day roughly £4,500,000 based on a 5 day working week over three weeks.

- New hyperconverged VMWare stack x3 £360,000
- Active Directory audit and re-build £80,000
- Network re-design, adding segmentation and SD-WAN integration - £40,000
- New hardware to support the new network, FWs, Switches (40GB upgrade) and multiple new ISP lines (estimated) £1.6m (ongoing payments in the region of £100k per annum)
- Data recovery from end user laptops (consultancy) £30,000
- Rushed migration to SharePoint online £40,000
- Money put aside to deal with long term revenue loss: customers got offered huge discounts to keep them onside – Well over £250,000
- Loss of three IT staff: New hire fees, short term consultants fees, project manger fees – (estimated) £50,000+
- Cost to reputation Priceless

Total* £6,024,000

*This is a rough cost

Total* £2,450,000



Thank you, any questions?

