Ransomware Attack & Response Timeline In this graphic we explore the series of events that were discovered during a ransomware **Incident Response investigation that Ingalls** performed in 2018, and the steps taken to resolve the attack. Day 1 Day 2-20 **Attacker Performs Recon** Identifies computers that contain important data as well as where the backups are located Day 21 **Command Line Execution** Attack & Encrypt of data Day 21 Day 22 **Victim Discovers Ransomware Attack** System Outage & **Ransom Demand** IT staff discover ransom note on servers Day 25 Ingalls is Contacted Incident response team engages and deploys tools within hours **Containment & Recovery Begins** Forensic analysis identifies recoverable shadow copy data



User Receives Phishing Attack

Opens malicious Word Document with Macro. leading to infection

Deletes all shadow copies

Data is Encrypted

Malware infection launches encryption attack against all servers & network shares

Employees start day & discover their data is missing



Endpoint Protection Finds Malware

All malware found is immediately quarantined

Day 25 📳



Ransom Negotiations Begin

Attacker demands 50BTC, drops to 40BTC after initial communication with victim

PHASE

Recovery

Day 27

Recovery Capability Confirmed

systems are restored as fast as shadow copies can be carved



Production Data Restored

majority of victim's workforce returns to normal schedule



Financial Data Restored

24-hour gap in restored data requires reentry, completed in 4-hours



Ransom Negotiations Drop

Price to 15BTC, ultimately end with attacker refusing to counter-offer of 1BTC after 95% of data is recovered





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