A Detailed Analysis of an Advanced Persistent Threat Malware

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A Detailed Analysis of an Advanced Persistent Threat Malware (PDF, 4.44MB)Published: 14 Oct, 2011

Spear-phishing emails were sent to a political figure at my place of residence. An email together with the attached sample was provided for forensics analysis. It appears to be an Advanced Persistent Threat type malware. By performing behavioral and code analysis in an alternatively way, most of its important functions were identified. The aim of this technical paper is to illustrate the detailed procedures of how this malware was dissected.

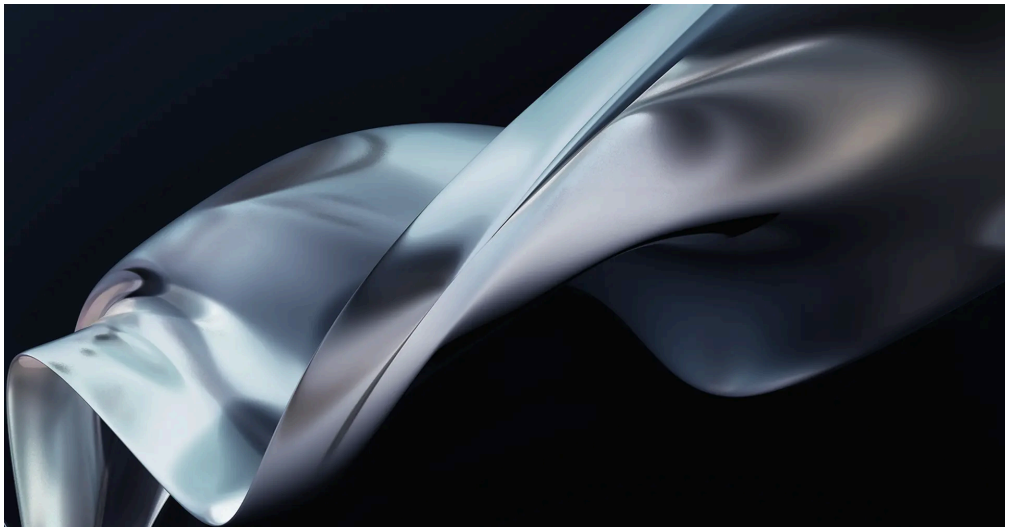
Additional resources

Related courses

- Slide 1 of 16

  FOR589: Cybercrime Investigations

  FOR589Digital Forensics and Incident Response

  - 5 Days (Instructor-Led)
  - 30 CPEs / 30 Hours (Self-Paced)

- Labs: 20 Hands-On Labs

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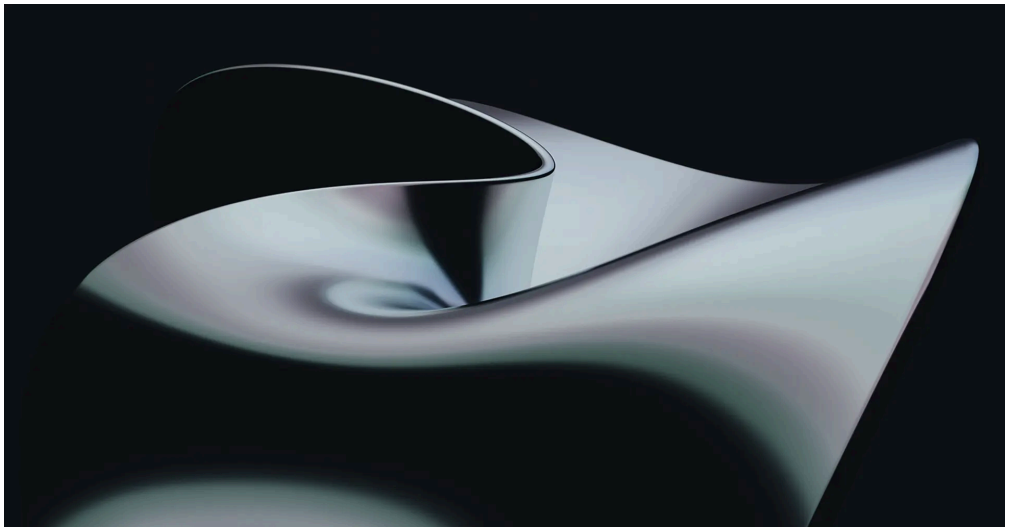
FOR585: Smartphone Forensic Analysis In-Depth

FOR585Digital Forensics and Incident Response



- GIAC Advanced Smartphone Forensics (GASF)
- 6 Days (Instructor-Led)
- 36 CPEs / 36 Hours (Self-Paced)
- Labs: 22 Hands-On Labs

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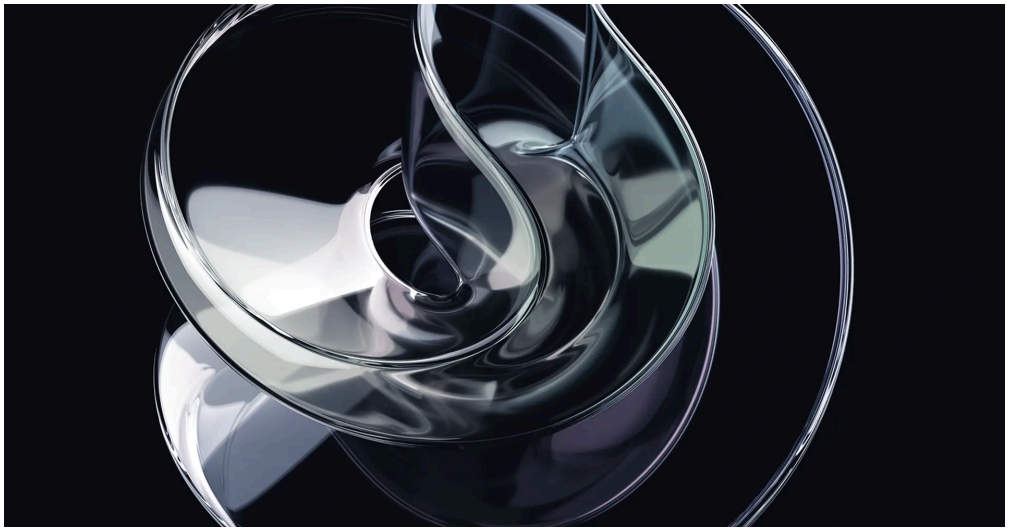
FOR478: Cyber Threat Intelligence Foundations

FOR478Digital Forensics and Incident Response



- 2 Days (Instructor-Led)
- 16 CPEs / 16 Hours
- Labs: 8 Hands-On Labs

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FOR608: Enterprise-Class Incident Response & Threat Hunting

FOR608Digital Forensics and Incident Response

- GIAC Enterprise Incident Responder (GEIR)
- 6 Days (Instructor-Led)
- 36 CPEs / 36 Hours (Self-Paced)
- Labs: 20 Hands-On Labs

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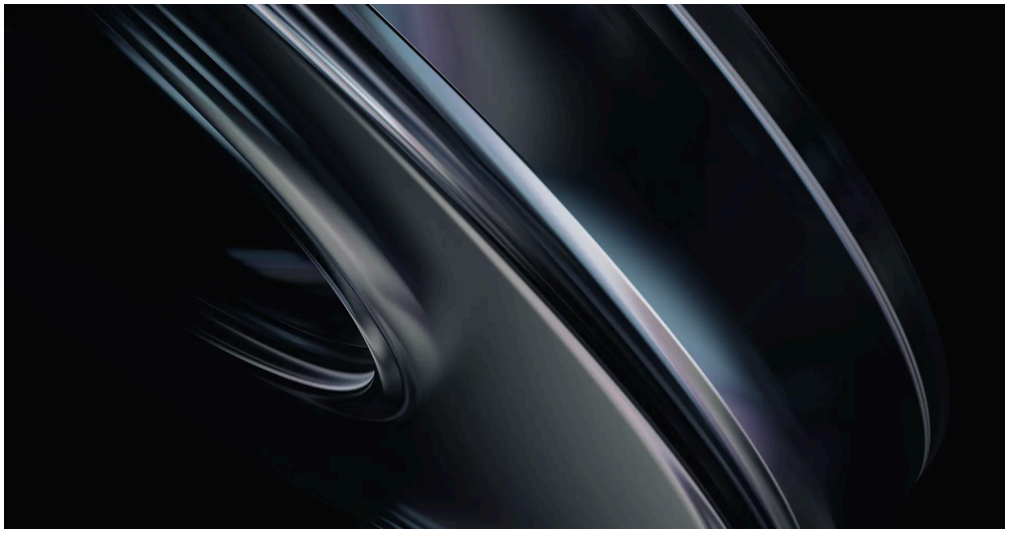
FOR518: Mac and iOS Forensic Analysis and Incident Response

FOR518Digital Forensics and Incident Response



- GIAC iOS and macOS Examiner (GIME)
- 6 Days (Instructor-Led)
- 36 CPEs / 36 Hours (Self-Paced)
- Labs: 23 Hands-On Labs

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FOR508: Advanced Incident Response, Threat Hunting, and Digital Forensics

FOR508Digital Forensics and Incident Response

- GIAC Certified Forensic Analyst (GCFA)
- 6 Days (Instructor-Led)
- 36 CPEs / 36 Hours (Self-Paced)
- Labs: 35 Hands-On Labs

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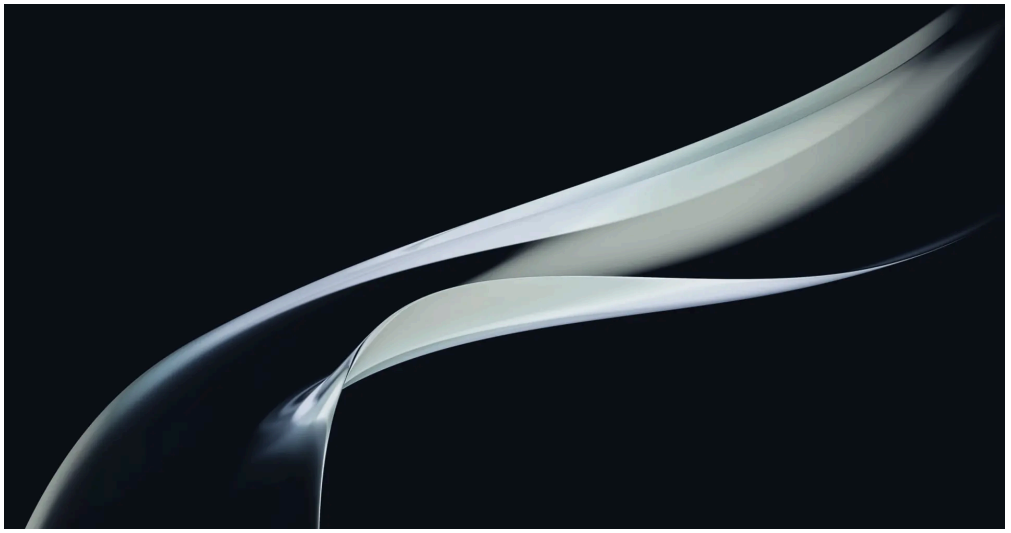
FOR610: Reverse-Engineering Malware: Malware Analysis Tools and Techniques

FOR610Digital Forensics and Incident Response



- GIAC Reverse Engineering Malware (GREM)
- 6 Days (Instructor-Led)
- 36 CPEs / 36 Hours (Self-Paced)
- Labs: 48 Hands-On Labs

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FOR578: Cyber Threat Intelligence

FOR578Digital Forensics and Incident Response

- GIAC Cyber Threat Intelligence (GCTI)
- 6 Days (Instructor-Led)
- 36 CPEs / 36 Hours (Self-Paced)
- Labs: 20 Hands-On Labs

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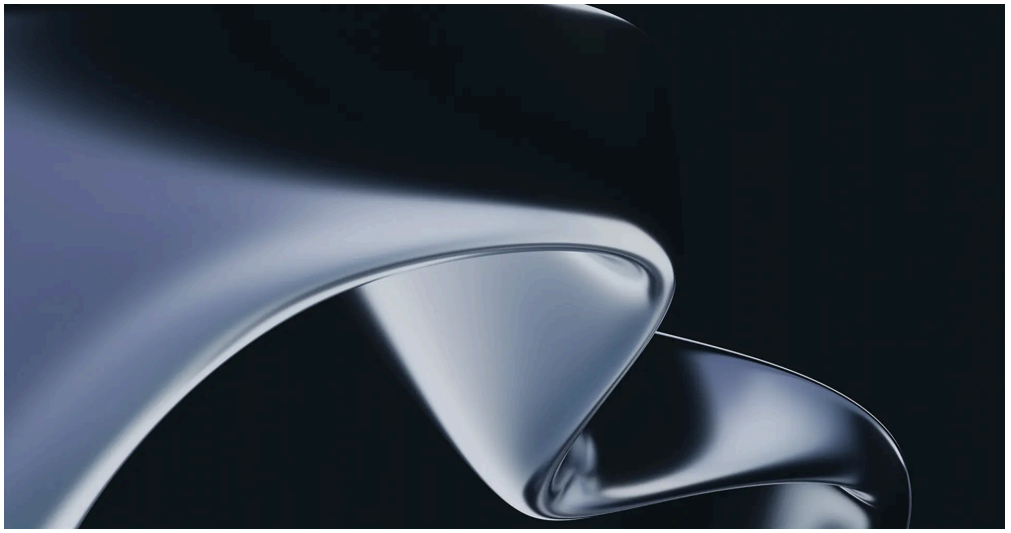
FOR509: Enterprise Cloud Forensics and Incident Response

FOR509Digital Forensics and Incident Response



- GIAC Cloud Forensics Responder (GCFR)
- 6 Days (Instructor-Led)
- 36 CPEs / 36 Hours (Self-Paced)
- Labs: 23 Hands-On Labs

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FOR528: Ransomware and Cyber Extortion

FOR528Digital Forensics and Incident Response

- 4 Days (Instructor-Led)
- 24 CPEs / 24 Hours (Self-Paced)
- Labs: 13 Hands-On Labs

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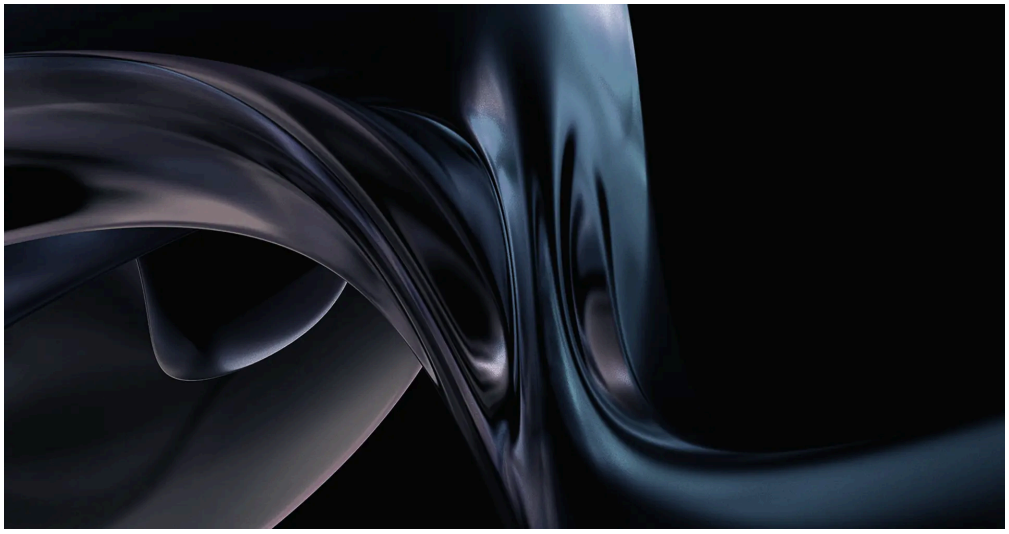
FOR577: LINUX Incident Response and Threat Hunting

FOR577Digital Forensics and Incident Response



- GIAC Linux Incident Responder (GLIR)
- 6 Days (Instructor-Led)
- 36 CPEs / 36 Hours (Self-Paced)
- Labs: 23 Hands-On Labs

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FOR710: Reverse-Engineering Malware: Advanced Code Analysis

FOR710Digital Forensics and Incident Response

- 36 CPEs / 36 Hours (Self-Paced)
- Labs: 12 Hands-On Labs

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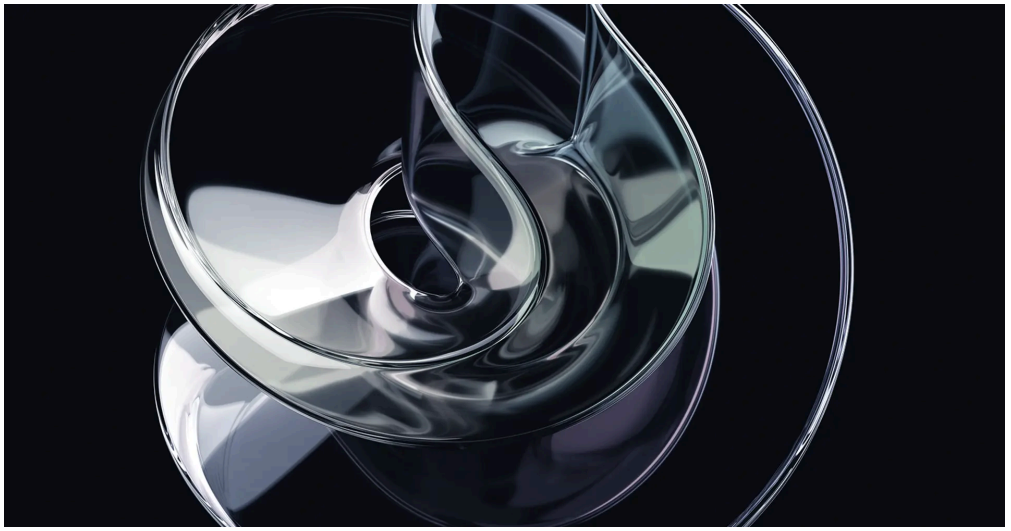
FOR498: Digital Acquisition and Rapid Triage

FOR498Digital Forensics and Incident Response



- GIAC Battlefield Forensics and Acquisition (GBFA)

- 6 Days (Instructor-Led)
- 36 CPEs / 36 Hours (Self-Paced)
- Labs: 20 Hands-On Labs

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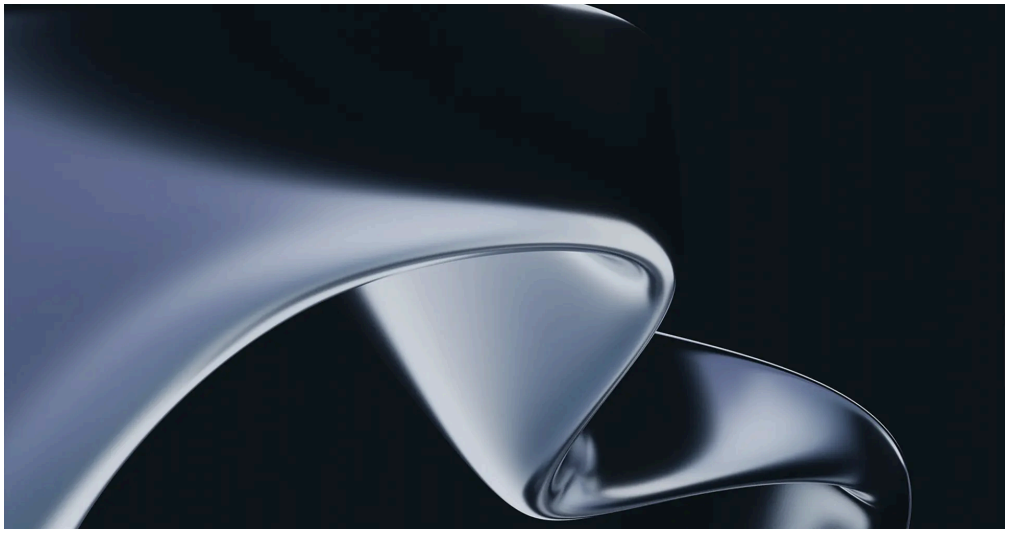
FOR563: Applied AI for Digital Forensics and Incident Response: Leveraging Local Large Language Models

FOR563Digital Forensics and Incident Response, Artificial Intelligence



- 1 Day (Instructor-Led)
- 6 CPEs / 6 Hours (Self-Paced)
- Labs: 4 Hands-On Labs

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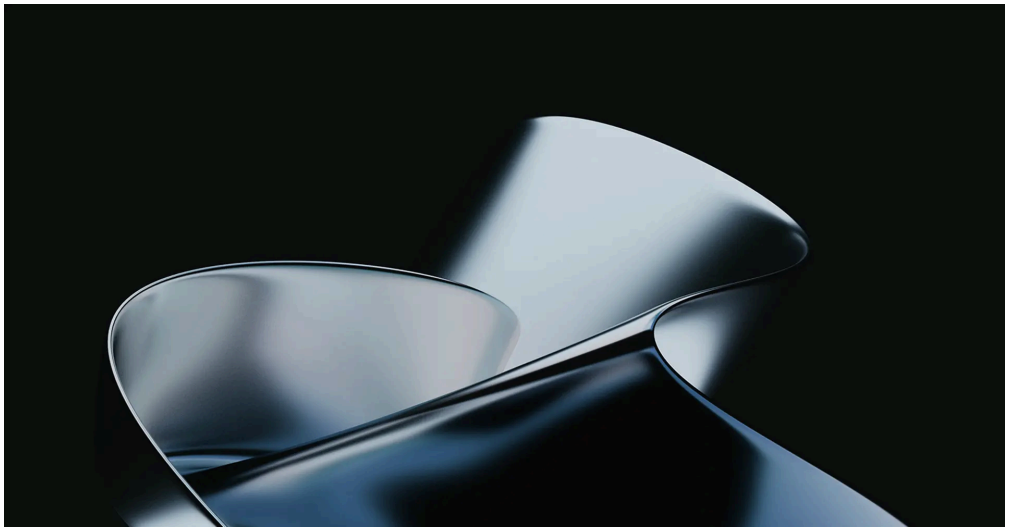
FOR500: Windows Forensic Analysis

FOR500Digital Forensics and Incident Response



- GIAC Certified Forensic Examiner (GCFE)
- 6 Days (Instructor-Led)
- 36 CPEs / 36 Hours (Self-Paced)
- Labs: 22 Hands-On Labs

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FOR572: Advanced Network Forensics: Threat Hunting, Analysis, and Incident Response

FOR572Digital Forensics and Incident Response