| Student: | Email: |
| --- | --- |
| Isaiah Mosley | isaiahmosley80@gmail.com |

| Time on Task: | Progress: |
| --- | --- |
| 27 hours, 18 minutes | 100% |

Report Generated: Tuesday, December 2, 2025 at 1:24 PM

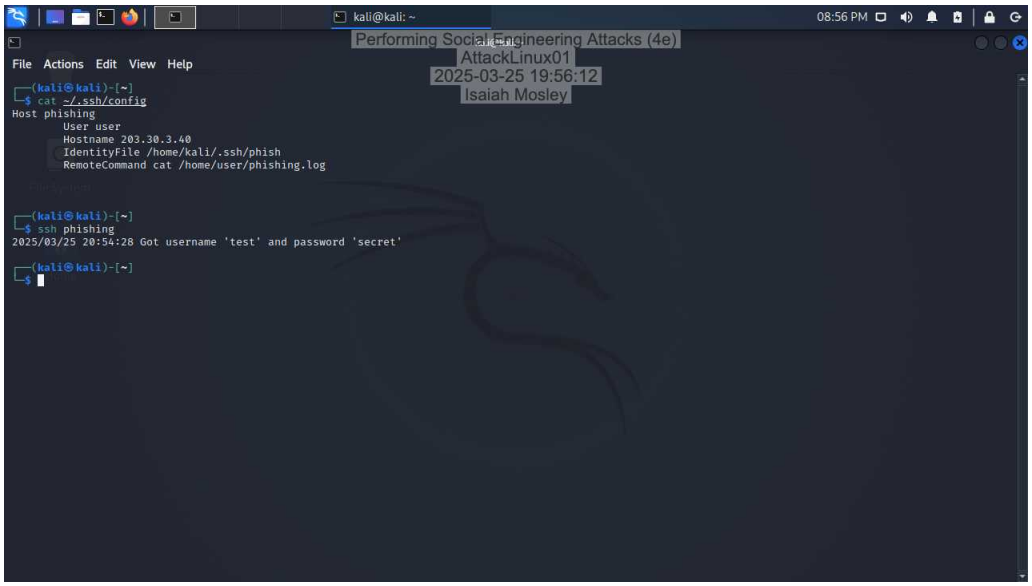
# Hands-On Demonstration

## Part 1: Perform Reconnaissance

5. **Document** the **names** and **email addresses** of the people on the About Us page.

CEO: Kristin Ibarra Email: kibarra@drisst.org CFO: Kiran Radcliffe Email: kradcliffe@drisst.org CTO: Matt Ramone Email: mattr@drisst.org CMO: Kane Szekeres Email: kszekeres@drisst.org

14. **Make a screen capture** showing the captured test credentials in the log.

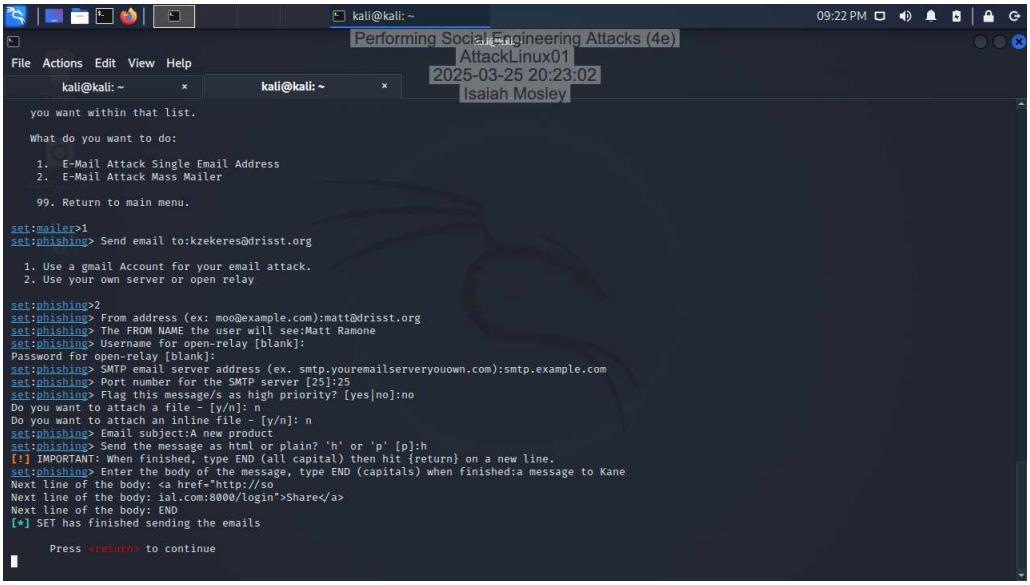



## Part 2: Send a phishing email

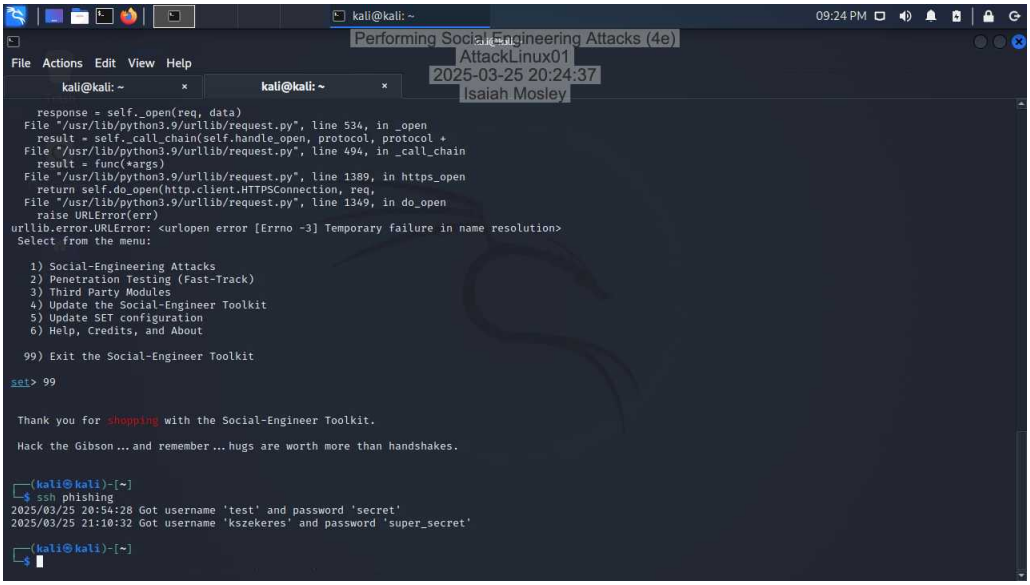
19. **Document** the message you created for the spear phishing email.

a message to Kane

24. **Make a screen capture** showing the message was sent.



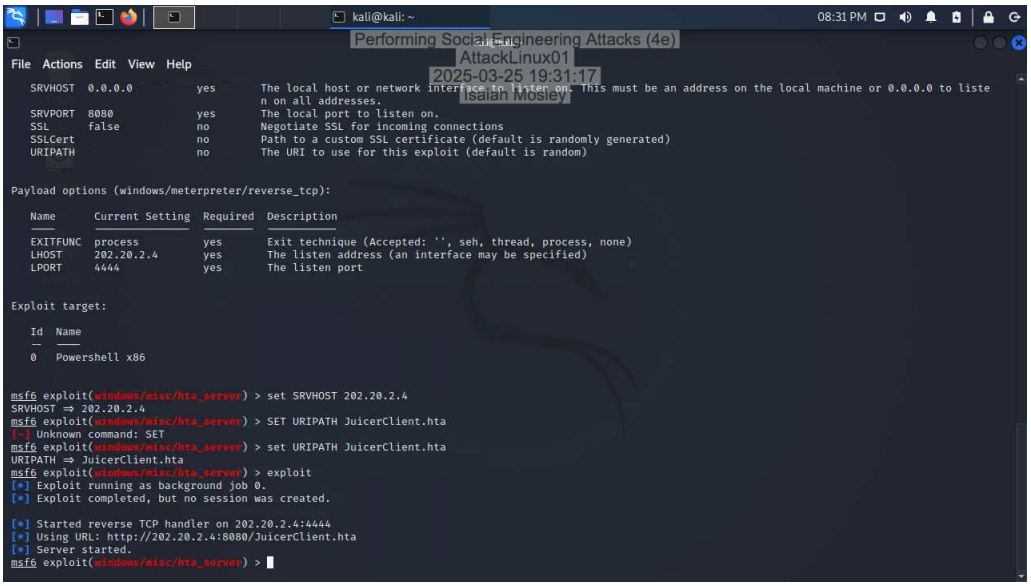

28. **Make a screen capture** showing the username and password collected from Kane.



# Applied Learning

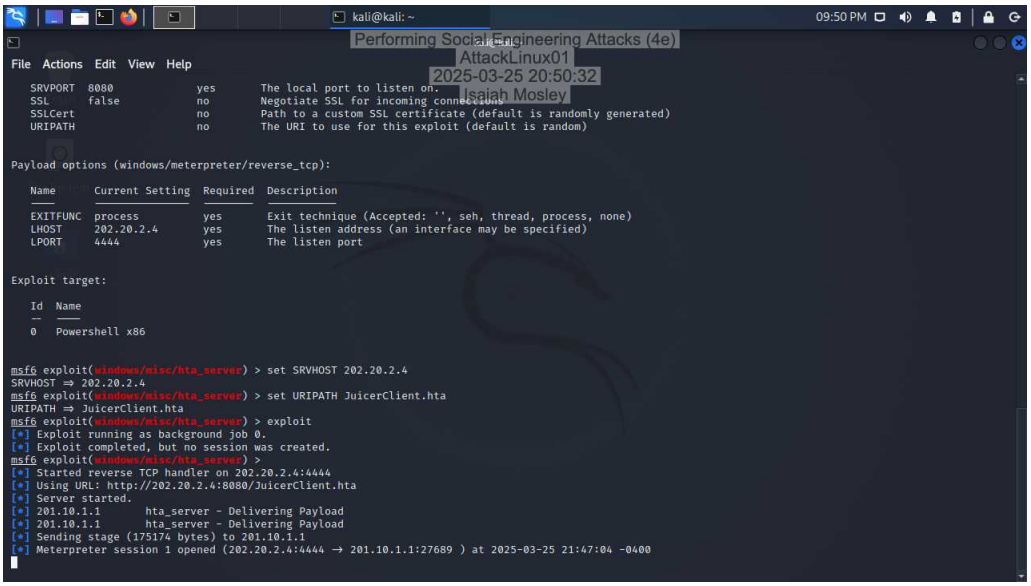
## Part 1: Prepare the payload

9. **Make a screen capture** showing that the exploit is running.



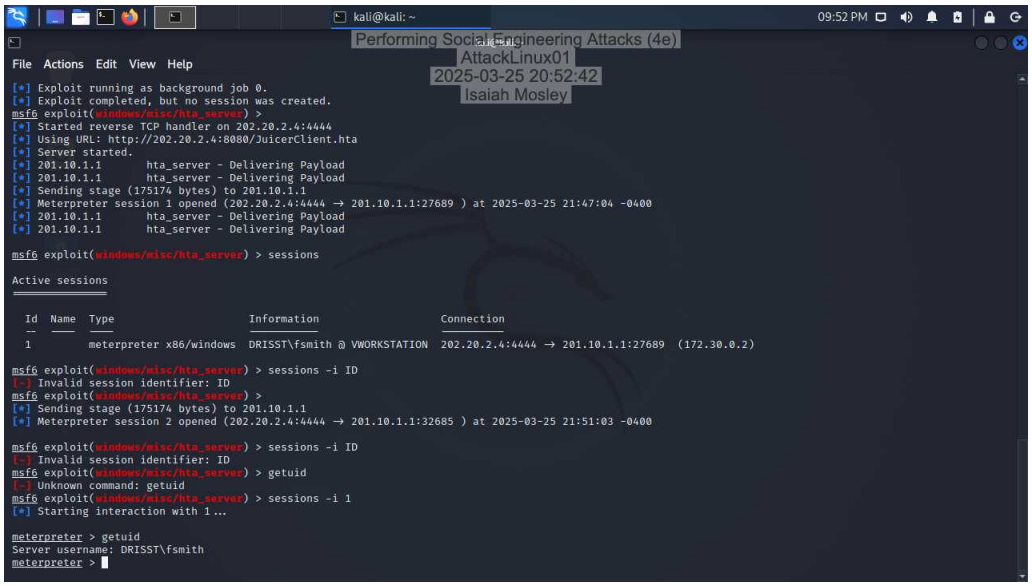

## Part 2: Perform an XSS attack on the Juice Shop

11. **Make a screen capture** showing the valid Meterpreter session.

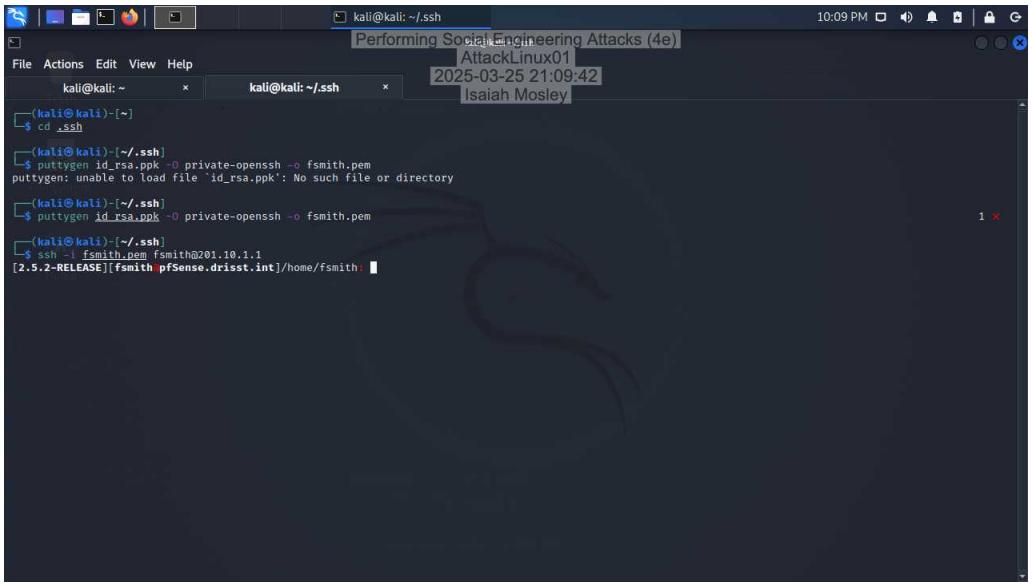



## Part 3: Demonstrate Exploits

4. **Make a screen capture** showing the user id.




14. **Make a screen capture** showing the successful login.



# Challenge and Analysis

## Part 1: Recommend email server change

1. **Document** what SPF, DKIM, and DMARC stand for and the benefits of implementing each to drisst.org's mail system to counteract spoofed emails.

**SPF (Sender Policy Framework)** SPF is an email authentication protocol that grants an owner of a domain to state which mail servers are authorized to send out email from their domain.Benefits:-Prevents Spoofing-Minimize Spam-Enhances Deliverability

**DKIM (Domain Keys Identified Mail)** DKIM attaches a digital signature to emails, thus verified by the receiver's mail server.The signature is created by using a private key and can be authenticated using a public key posted within the domain's DNS records.Benefits:- Integrity Certainty-Builds Trust-Minimize Phishing
**DMARC (Domain-based Message Authentication, Reporting, and Conformance**) DMARC is formed from SPF and DKIM by presenting a way for domain owners to publish policies for handling emails and retrieve reports about authentication failures from emails.
Benefits:-Provided Policy Enforcement-Improves Visibility-Enhances Security

## Part 2: Recommend browser settings changes

1. **Provide** clear and comprehensive instructions detailing the necessary changes to be made in Firefox to ensure the consistent display of PUNY code in the address bar.

SPF:-Configuration of SPF Records: Update DNS records for drisst.org to contain authorized mail serversBy implement this will ensure only legit servers can send emails from drisst.org, this will minimizing the risk of spoofed emails.DKIM:Implement DKIM Signatures: Implement DKIM by creating a pair of a public and private key, post the public key within the DNS records, and configure the mail servers to signing emails sent out.This validate the integrity and authentication of the emails, therefore ensuring they're not tampered in transit and forming trust with receivers.DMARC:Publish DMARC Policy: Create and post a DMARC policy of your own DNS records and state how the managed emails that fail both SPF and DKMs validations.Monitor and Adjust: Utilize DMARC reports to monitor the results of authenticated emails and modify policies when necessary.DMARC will force email authentication policeies and give awareness of managing emails and misuse, therefore improving security of emails via drisst.org
Implementing SPF, DKIM, and DMARC, via drisst.org will mitigate the risk of email spoofing, enhancing delivery of emails, securing it's domains from misuse of malicious intent.