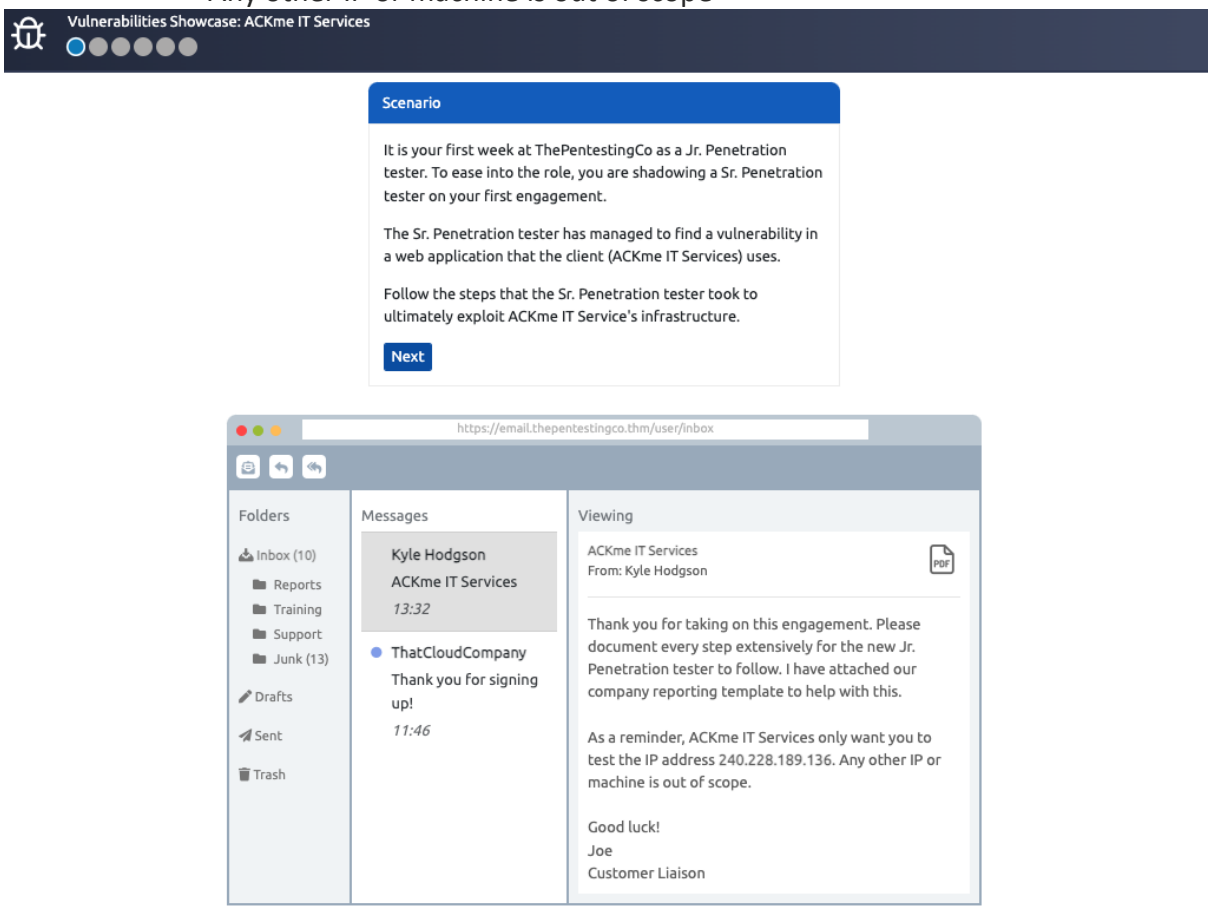
Vulnerability 101

Task 6 Showcase: Exploiting Ackme's Application

Deploy the site associated with this work and follow the procedures taken by the Sr. Penetration Tester to exploit a vulnerability in the infrastructure of ACKme IT Service.

INTRODUCTION

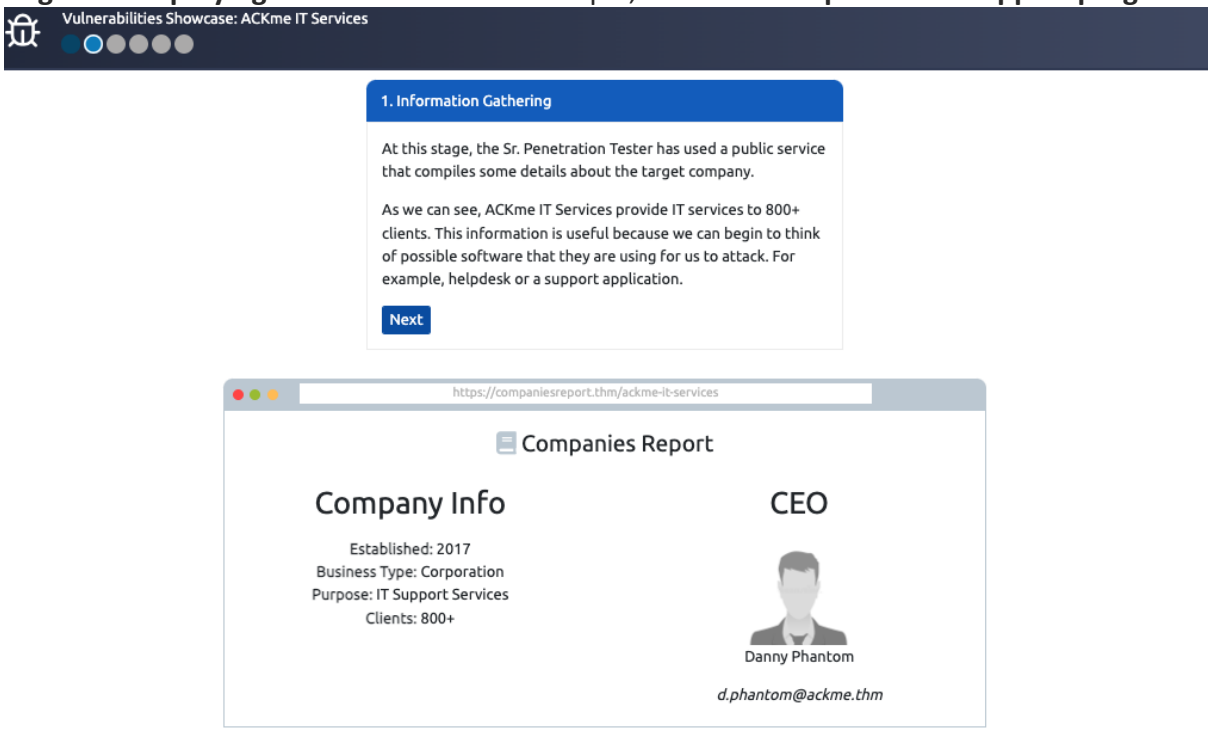
- Test the IP address: **240.228.189.136**
- Any other IP or machine is out of scope



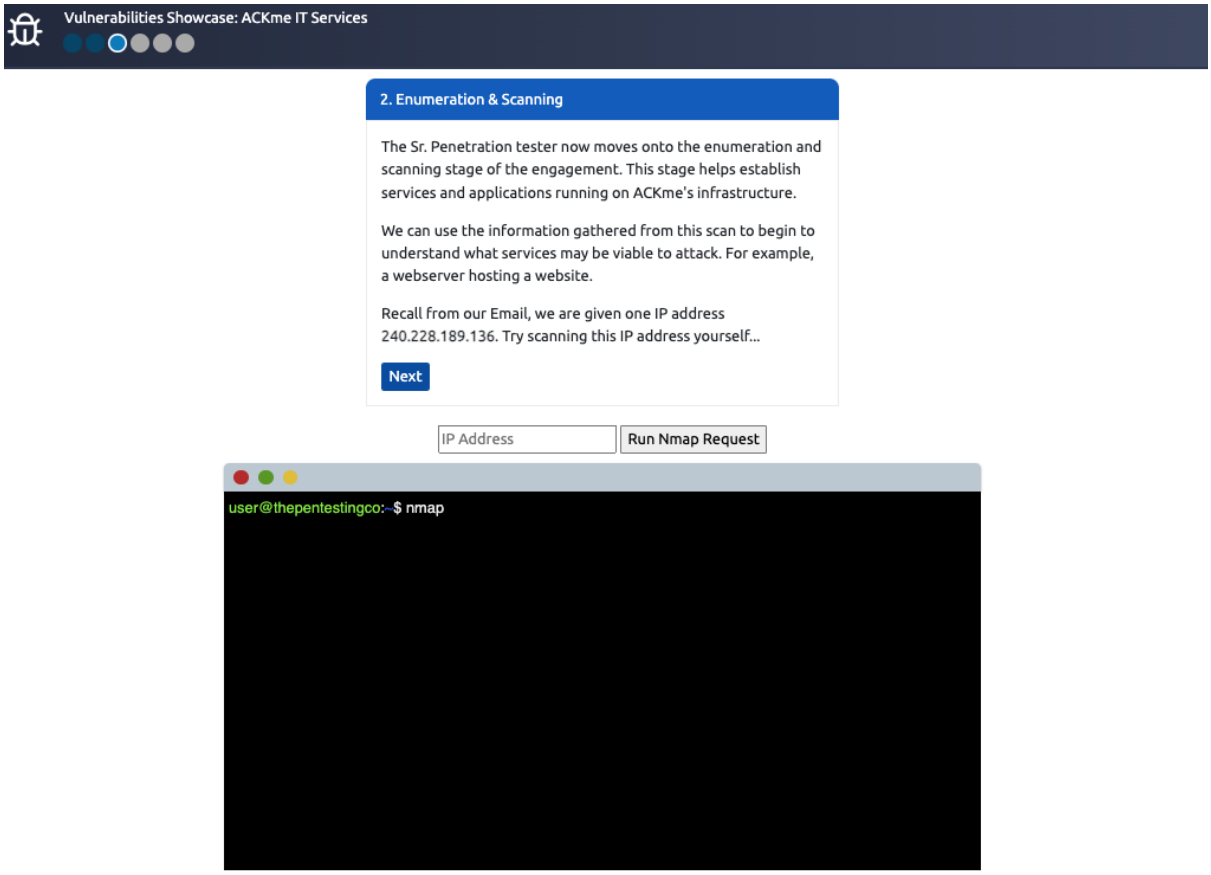
(1) INFORMATION GATHERING

- **Established:** 2017
- **Business Type:** Corporation
- **Purpose:** IT Support Services
- **Clients:** 800+

This knowledge is significant because it allows us to **start thinking about what software they might be employing to attack us**. As an example, consider a **helpdesk or a support program**.

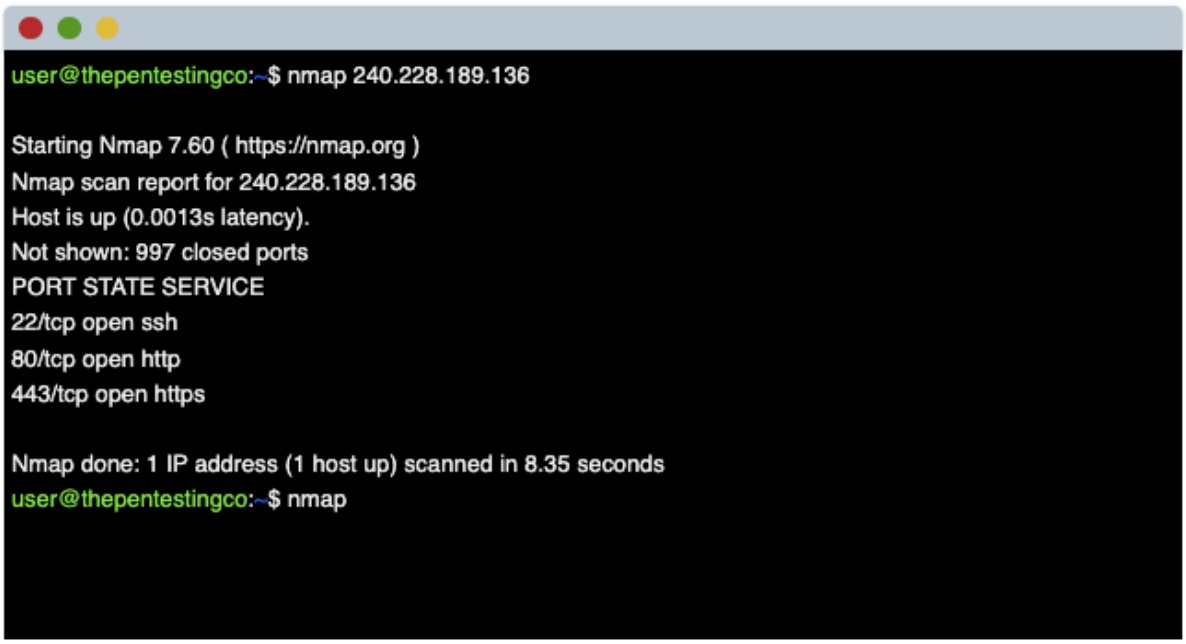


(2) ENUMERATION & SCANNING



3)Open Ports Found:

- Port 22 (SSH)
- Port 80 (HTTP)
- Port 443 (HTTPS)

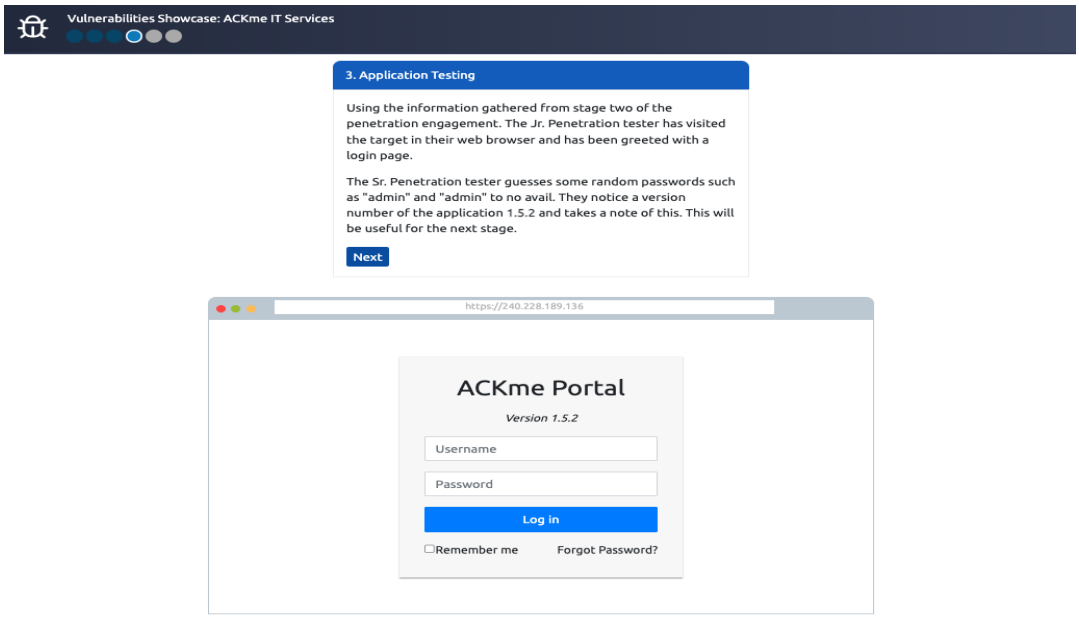


Nmap Result

(3) APPLICATION TESTING

We initially discovered three open ports and are now able to access the "portal," and we can normally test it using a random login and password, such as "**admin:admin**" to begin.However, the application has a "**version number**," which might be very beneficial.

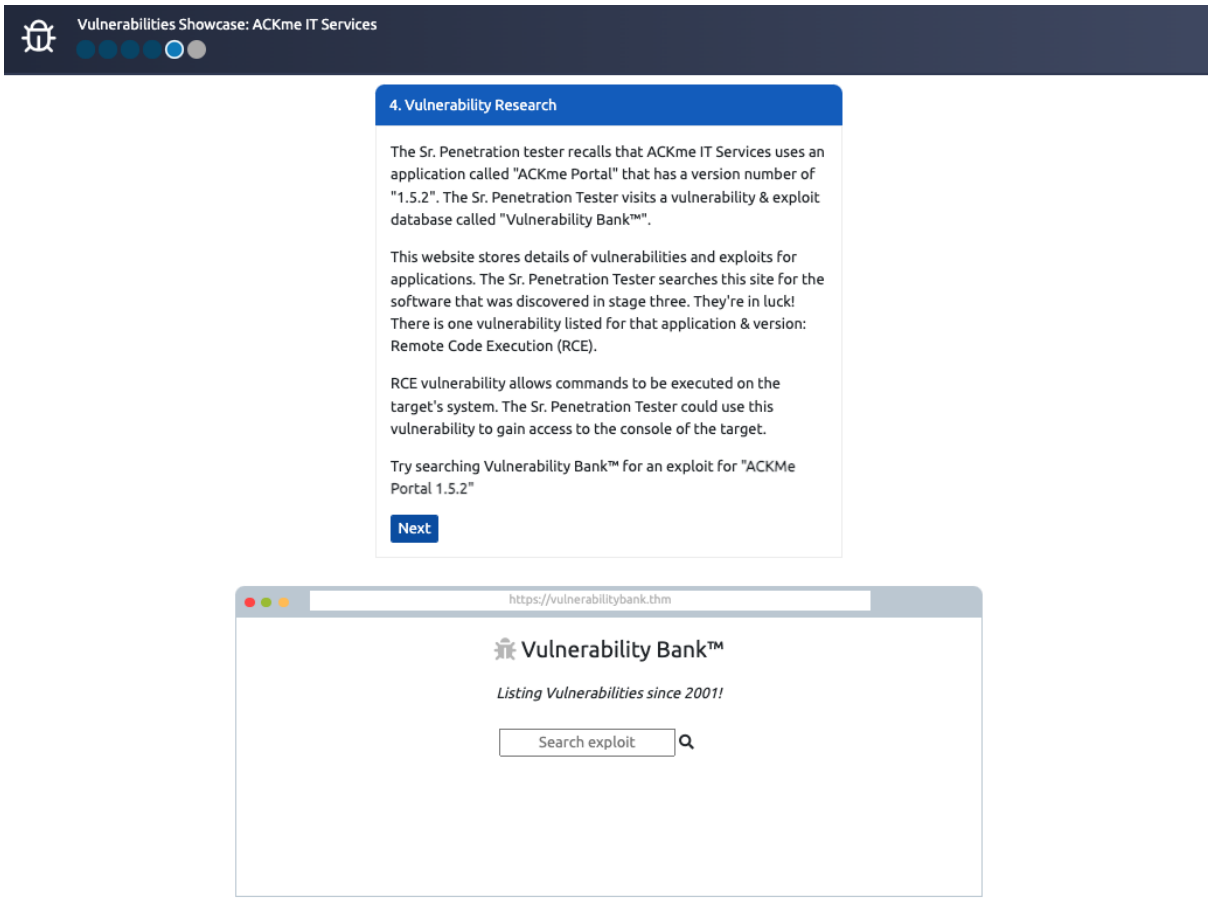
- **Version Number:** 1.5.2



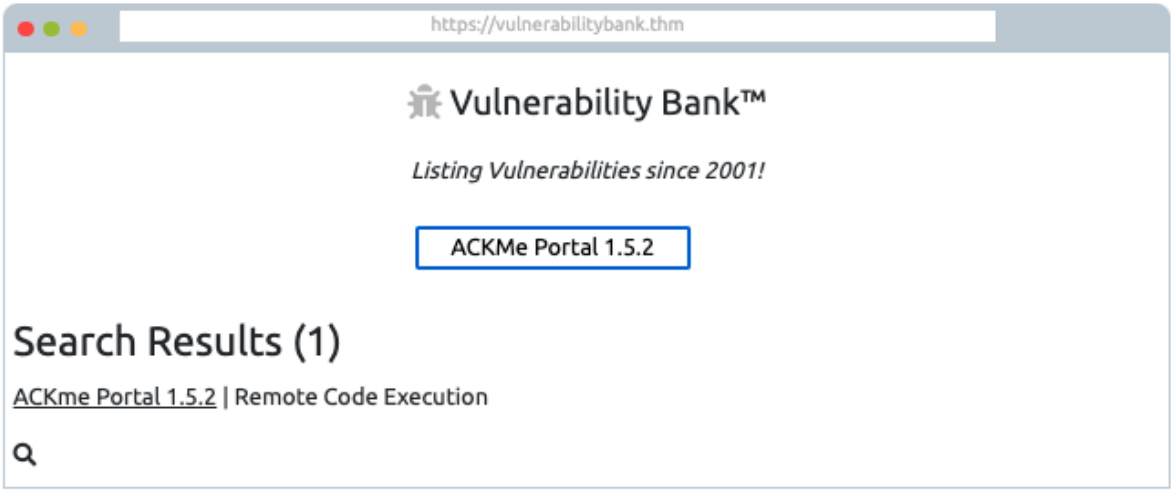
(4) VULNERABILITY RESEARCH

It’s the same as “Exploit-DB,” which allows us to search the “vulnerability bank” for vulnerabilities on the site.

- **Search:** ACKMe Portal 1.5.2

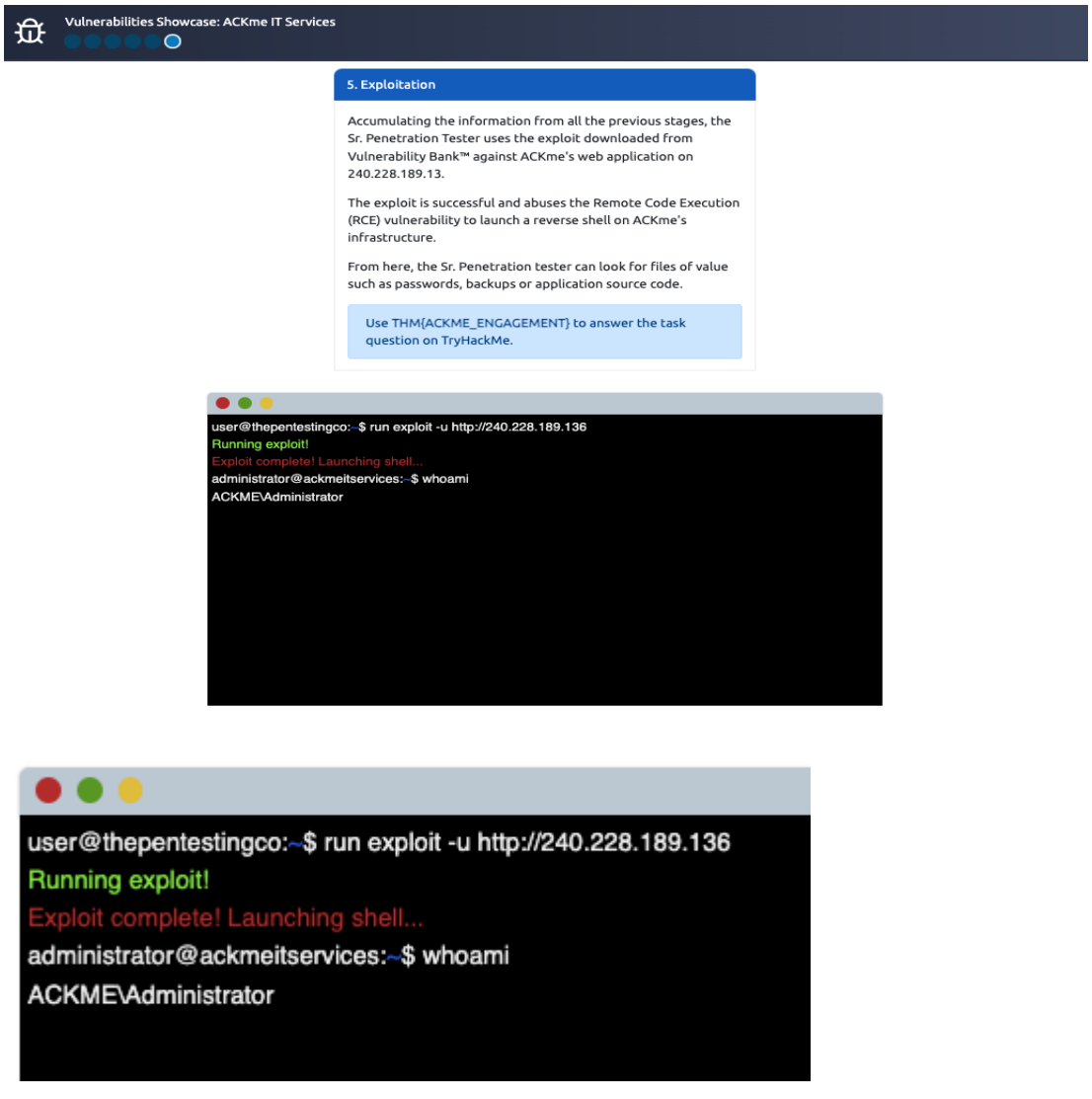


- **Found:** Remote Code Execution (RCE)



(5) EXPLOITATION

Utilize the exploit downloaded from the “Vulnerability Bank” to attack the “victim.” In this situation, it is “RCE,” and as a result, we can conduct a reverse shell attack on the victim, obtaining files and information such as passwords, secret files, application source code, and so on.



Follow along with the showcase of exploiting ACKme’s application to the end to retrieve a flag. What is this flag?

Answer: THM{ACKME_ENGAGEMENT}